

# Safety Data Sheet

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09-5451-1

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26.04

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07/26/18

Supercedes Date:

07/16/18

# SECTION 1: Identification

#### 1.1. Product identifier

3M Brand Fire Barrier CP-25WB+

#### Product Identification Numbers

ID Number	UPC	ID Number	UPC
42-0016-4710-8		42-0016-4715-7	
42-0016-4716-5		98-0400-5380-7	00-51115-11639-1
98-0400-5381-5	00-51115-11640-7	98-0400-5382-3	00-51115-11641-4
98-0400-5383-1	00-51115-11642-1	98-0400-5406-0	00-51115-16515-3
98-0400-5456-5		98-0400-5562-0	000-51115-11642-1
98-0400-5573-7	000-51115-16515-3	98-0400-5610-7	

#### 1.2. Recommended use and restrictions on use

#### Recommended use

98-0400-5629-7

Fire Protection, Used as Firestop in buildings.

1.3. Supplier's details

MANUFACTURER:

3M

DIVISION:

Industrial Adhesives and Tapes Division 3M Center, St. Paul, MN 55144-1000, USA

ADDRESS:

1-888-3M HELPS (1-888-364-3577)

Telephone:

# 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

# **SECTION 2: Hazard identification**

#### 2.1. Hazard classification

Serious Eve Damage/Irritation: Category 2A. Reproductive Toxicity: Category 2.

## 2.2. Label elements

Signal word

Warning

## Symbols

Exclamation mark | Health Hazard |

# Pictograms





#### **Hazard Statements**

Causes serious eye irritation. Suspected of damaging fertility or the unborn child.

# Precautionary Statements

#### General:

Keep out of reach of children.

#### Prevention:

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves and eye/face protection.

Wash thoroughly after handling.

#### Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

If eye irritation persists: Get medical advice/attention.

IF exposed or concerned: Get medical advice/attention.

#### Storage:

Store locked up.

## Disposal:

Dispose of contents/container in accordance with applicable local/regional/national/international regulations,

# SECTION 3: Composition/information on ingredients

Ingredient	C.A.S. No.	% by Wt
Water	7732-18-5	10 - 30 Trade Secret *
Zinc Borate 2335	138265-88-0	10 - 30 Trade Secret *
Polymer (NJTS Reg. No. 04499600-7270)	Trade Secret*	10 - 30 Trade Secret *
Sodium Silicate	1344-09-8	10 - 19 Trade Secret *
Ethylhexyldiphenyl phosphate	1241-94-7	3 - 7 Trade Secret *
Iron oxide	1309-37-1	1 - 5 Trade Secret *
Oxide glass chemicals	65997-17-3	1 5 Trade Secret *
Polyethylene Glycol	25322-68-3	1 - 5 Trade Secret *
Quartz Silica	14808-60-7	< 1 Trade Secret *

NJTS or NJTSRN: New Jersey Trade Secret Registry Number.

<sup>\*</sup>The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

#### Inhalation:

Remove person to fresh air. If you feel unwell, get medical attention.

#### **Skin Contact:**

Wash with soap and water. If signs/symptoms develop, get medical attention.

#### Eve Contact:

Immediately flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. Get medical attention.

#### If Swallowed:

Rinse mouth. If you feel unwell, get medical attention.

#### 4.2. Most important symptoms and effects, both acute and delayed

See Section 11.1. Information on toxicological effects.

#### 4.3. Indication of any immediate medical attention and special treatment required

Not applicable

# **SECTION 5: Fire-fighting measures**

# 5.1. Suitable extinguishing media

Non-combustible. Use a fire fighting agent suitable for surrounding fire.

# 5.2. Special hazards arising from the substance or mixture

None inherent in this product.

## **Hazardous Decomposition or By-Products**

Substance

Carbon monoxide
Carbon dioxide

Oxides of Phosphorus

Condition

**During Combustion** 

**During Combustion** 

**During Combustion** 

#### 5.3. Special protective actions for fire-fighters

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

# SECTION 6: Accidental release measures

# 6.1. Personal precautions, protective equipment and emergency procedures

Evacuate area. Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate

authorities. Clean up residue. Seal the container. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Keep out of reach of children. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Avoid release to the environment. Use personal protective equipment (gloves, respirators, etc.) as required.

#### 7.2. Conditions for safe storage including any incompatibilities

Keep cool. Store away from heat. Store away from areas where product may come into contact with food or pharmaceuticals. Store in a dry place.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	C.A.S. No.	Agency	Limit type	<b>Additional Comments</b>
DUST, INERT OR NUISANCE	1309-37-1	OSHA	TWA(as total dust):15 mg/m3;TWA(as total dust):50 millions of particles/cu. ft.(15 mg/m3);TWA(respirable fraction):15 millions of particles/cu. ft.(5 mg/m3);TWA(respirable fraction):5 mg/m3	
Iron oxide	1309-37-1	ACGIH	TWA(respirable fraction):5 A4: Not class. a	
Iron oxide	1309-37-1	OSHA	TWA(as fume):10 mg/m3	
ROUGE	1309-37-1	OSHA	TWA(as total dust):15 mg/m3;TWA(respirable fraction):5 mg/m3	
Quartz Silica	14808-60-7	ACGIH	TWA(respirable fraction):0.025 mg/m3	A2: Suspected human carcin.
Quartz Silica	14808-60-7	OSHA	TWA Table Z- 1(respirable):0.05 mg/m3;TWA Table Z- 3(respirable):0.1 mg/m3	
Polyethylene Glycol	25322-68-3	AIHA	TWA(as particulate):10 mg/m3	

ACGIH: American Conference of Governmental Industrial Hygienists

AIHA: American Industrial Hygiene Association

CMRG: Chemical Manufacturer's Recommended Guidelines

OSHA: United States Department of Labor - Occupational Safety and Health Administration

TWA: Time-Weighted-Average STEL: Short Term Exposure Limit

CEIL: Ceiling

# 8.2. Exposure controls

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#### 8.2.1. Engineering controls

Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below relevant Exposure Limits and/or control dust/fume/gas/mist/vapors/spray. If ventilation is not adequate, use respiratory protection equipment.

#### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:

**Indirect Vented Goggles** 

#### Skin/hand protection

Select and use gloves and/or protective clothing approved to relevant local standards to prevent skin contact based on the results of an exposure assessment. Selection should be based on use factors such as exposure levels, concentration of the substance or mixture, frequency and duration, physical challenges such as temperature extremes, and other use conditions. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible gloves/protective clothing.

Gloves made from the following material(s) are recommended: Butyl Rubber

Neoprene

Nitrile Rubber

#### Respiratory protection

An exposure assessment may be needed to decide if a respirator is required. If a respirator is needed, use respirators as part of a full respiratory protection program. Based on the results of the exposure assessment, select from the following respirator type(s) to reduce inhalation exposure:

Half facepiece or full facepiece air-purifying respirator suitable for organic vapors and particulates

For questions about suitability for a specific application, consult with your respirator manufacturer.

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

General Physical Form: Solid Specific Physical Form: Paste

Odor, Color, Grade:
Red with negligible odor
Odor threshold
No Data Available

**pH** 7.5 - 8

Melting point

No Data Available

Boiling Point 100 °C
Flash Point No flash point

Evaporation rate 0.33 [Ref Std:BUOAC=1]

Flammability (solid, gas)

Flammable Limits(LEL)

Flammable Limits(UEL)

Vapor Pressure

Vapor Density

Not Applicable

17.5 mmHg [@ 20 °C]

No Data Available

Density
No Data Available
Specific Gravity
1.35 [Ref Std:WATER=1]

Specific Gravity 1.35 [Ref Std: WATER: Solubility in Water Complete

Solubility- non-water

Partition coefficient: n-octanol/ water

Autoignition temperature

Decomposition temperature

No Data Available

Not Applicable

No Data Available

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Viscosity Molecular weight Volatile Organic Compounds VOC Less H2O & Exempt Solvents 12,000 centipoise [Test Method:Brookfield]
No Data Available

<=0.5 % weight [Test Method:tested per EPA method 24]

<=6 g/l [Test Method:tested per EPA method 24]

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

This material is considered to be non reactive under normal use conditions.

#### 10.2. Chemical stability

Stable.

#### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

**Substance** 

None known.

Condition

Refer to section 5.2 for hazardous decomposition products during combustion.

# **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

#### 11.1. Information on Toxicological effects

Signs and Symptoms of Exposure

Based on test data and/or information on the components, this material may produce the following health effects:

#### Inhalation:

Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

#### **Skin Contact:**

Mild Skin Irritation: Signs/symptoms may include localized redness, swelling, itching, and dryness.

#### **Eve Contact:**

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

#### Ingestion:

May be harmful if swallowed.

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

May cause additional health effects (see below).

#### **Additional Health Effects:**

# Reproductive/Developmental Toxicity:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

# Carcinogenicity:

Ingredient	CAS No.	Class Description	Regulation	
SILICA, CRYS AIRRESP	14808-60-7	Known human carcinogen	National Toxicology Program Carcinog	ens
Quartz Silica	14808-60-7	Grp. 1: Carcinogenic to humans	International Agency for Research on C	ancer

#### **Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

# **Acute Toxicity**

Name	Route	Species	Value	
Overall product	Dermal		No data available; calculated ATE >5,000 mg/kg	
Overall product	Ingestion		No data available; calculated ATE2,000 - 5,000 m	ng/kg
Zinc Borate 2335	Dermal	Rabbit	LD50 > 5,000 mg/kg	
Zinc Borate 2335	Inhalation- Dust/Mist	Rat	LC50 > 4.95 mg/l	
Zinc Borate 2335	Ingestion	Rat	LD50 > 5,000 mg/kg	
Polymer (NJTS Reg. No. 04499600-7270)	Dermal		LD50 estimated to be > 5,000 mg/kg	
Polymer (NJTS Reg. No. 04499600-7270)	Ingestion	Rat	LD50 > 2,000 mg/kg	
Sodium Silicate	Dermal	Rabbit	LD50 > 4,640 mg/kg	
Sodium Silicate	Ingestion	Rat	LD50 500 mg/kg	
Ethylhexyldiphenyl phosphate	Dermal	Rabbit	LD50 > 7,940 mg/kg	
Ethylhexyldiphenyl phosphate	Ingestion	Rat	LD50 > 24,000 mg/kg	
Iron oxide	Dermal	Not available	LD50 3,100 mg/kg	
Iron oxide	Ingestion	Not available	LD50 3,700 mg/kg	
Polyethylene Glycol	Dermal	Rabbit	LD50 > 20,000 mg/kg	
Polyethylene Glycol	Ingestion	Rat	LD50 32,770 mg/kg	
Oxide glass chemicals	Dermal		LD50 estimated to be > 5,000 mg/kg	
Oxide glass chemicals	Ingestion		LD50 estimated to be 2,000 - 5,000 mg/kg	
Quartz Silica	Dermal		LD50 estimated to be > 5,000 mg/kg	
Quartz Silica	Ingestion		LD50 estimated to be > 5,000 mg/kg	

# ATE = acute toxicity estimate

# Skin Corrosion/Irritation

Name	Species	Value	
Zinc Borate 2335	Rabbit	No significant irritation	
Polymer (NJTS Reg. No. 04499600-7270)	Rabbit	Minimal irritation	
Sodium Silicate	Rabbit	Corrosive	
Iron oxide	Rabbit	No significant irritation	
Polyethylene Glycol	Rabbit	Minimal irritation	
Oxide glass chemicals	Professio	No significant irritation	
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	judgeme		

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	nt	
Quartz Silica	Professio nal judgeme nt	No significant irritation

Serious Eye Damage/Irritation

Name	Species	Value
Zinc Borate 2335	Rabbit	Severe irritant
Polymer (NJTS Reg. No. 04499600-7270)	Professio nal judgeme nt	Mild irritant
Sodium Silicate	Rabbit	Согтовіче
Iron oxide	Rabbit	No significant irritation
Polyethylene Glycol	Rabbit	Mild irritant
Oxide glass chemicals	Professio nal judgeme nt	No significant irritation

#### **Skin Sensitization**

Name	Species	Value
Zinc Borate 2335	Guinea	Not classified
	pig	
Sodium Silicate	Mouse	Not classified
Iron oxide	Human	Not classified
Polyethylene Glycol	Guinea	Not classified
	pig	

# **Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Germ Cell Mutagenicity

Name	Route	Value
Zinc Borate 2335	In Vitro	Some positive data exist, but the data are not sufficient for classification
Sodium Silicate	In Vitro	Not mutagenic
Sodium Silicate	In vivo	Not mutagenic
Iron oxide	In Vitro	Not mutagenic
Polyethylene Glycol	In Vitro	Not mutagenic
Polyethylene Glycol	In vivo	Not mutagenic
Oxide glass chemicals	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	In Vitro	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	In vivo	Some positive data exist, but the data are not sufficient for classification

Carcinogenicity

Name	Route	Species	Value
Iron oxide	Inhalation	Human	Some positive data exist, but the data are not sufficient for classification
Polyethylene Glycol	Ingestion	Rat	Not carcinogenic
Oxide glass chemicals	Inhalation	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Quartz Silica	Inhalation	Human and animal	Carcinogenic

# **Reproductive Toxicity**

Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test Result	Exposure Duration
Zinc Borate 2335	Ingestion	Toxic to male reproduction	Rat	NOAEL 100 mg/kg/day	92 days
Zinc Borate 2335	Ingestion	Toxic to development	Rat	LOAEL 100 mg/kg/day	during gestation
Sodium Silicate	Ingestion	Not classified for development	Mouse	NOAEL 200 mg/kg/day	during gestation
Polyethylene Glycol	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
Polyethylene Glycol	Ingestion	Not classified for male reproduction	Rat	NOAEL 5699 +/- 1341 mg/kg/day	5 days
Polyethylene Glycol	Not Specified	Not classified for reproduction and/or development		NOEL N/A	
Polyethylene Glycol	Ingestion	Not classified for development	Mouse	NOAEL 562 mg/animal/da y	during gestation

# Target Organ(s)

Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
Zinc Borate 2335	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	
Sodium Silicate	Inhalation	respiratory irritation	May cause respiratory irritation	official classifica tion	NOAEL Not available	
Polyethylene Glycol	Inhalation	respiratory irritation	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks

Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration	
Zinc Borate 2335	Inhalation	immune system   respiratory system   heart   endocrine system   hematopoietic system   liver   nervous system   kidney and/or bladder	Not classified	Rat	NOAEL 0.15 mg/l	2 weeks	
Zinc Borate 2335	Ingestion	endocrine system   liver   kidney and/or bladder   heart   skin   bone, teeth, nails, and/or hair   hematopoietic system   immune system   nervous system   eyes   respiratory system   vascular system	Not classified	Rat	NOAEL 375 mg/kg/day	92 days	
Sodium Silicate	Ingestion	kidney and/or bladder	Some positive data exist, but the data are not sufficient for classification	Dog	LOAEL 2,400 mg/kg/day	4 weeks	
Sodium Silicate	Ingestion	endocrine system   blood	Not classified	Rat	NOAEL 804 mg/kg/day	3 months	
Sodium Silicate	Ingestion	heart   liver	Not classified	Rat	NOAEL	8 weeks	

					1,259 mg/kg/day	
Iron oxide	Inhalation	pulmonary fibrosis   pneumoconiosis	Not classified	Human	NOAEL Not available	occupational exposure
Polyethylene Glycol	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Polyethylene Glycol	Ingestion	kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   nervous system	Not classified	Rat	NOAEL 5,640 mg/kg/day	13 weeks
Oxide glass chemicals	Inhalation	respiratory system	Not classified	Human	NOAEL not available	occupational exposure
Quartz Silica	Inhalation	silicosis	Causes damage to organs through prolonged or repeated exposure	Human	NOAEL Not available	occupational exposure

#### **Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

# **SECTION 12: Ecological information**

## **Ecotoxicological information**

Test Organism	Test Type	Result
Water flea, Daphnia magna	48 hours Aquatic Toxicity - Acute	27 mg/l
Green algae, Pseudokirchneriella subcapitata	72 hours Aquatic Toxicity - Chronic	2.6 mg/l

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

#### Chemical fate information

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

# **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty drums/barrels/containers used for transporting and handling hazardous chemicals (chemical substances/mixtures/preparations classified as Hazardous as per applicable regulations) shall be considered, stored, treated & disposed of as hazardous wastes unless otherwise defined by applicable waste regulations. Consult with the respective regulating authorities to determine the available treatment and disposal facilities.

# **SECTION 14: Transport Information**

For Transport Information, please visit http://3M.com/Transportinfo or call 1-800-364-3577 or 651-737-6501.

# **SECTION 15: Regulatory information**

3M Brand Fire Barrier CP-25WB+

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## 15.1. US Federal Regulations

Contact 3M for more information.

#### **EPCRA 311/312 Hazard Classifications:**

Physical Hazards

Not applicable

#### **Health Hazards**

Reproductive toxicity

Serious eye damage or eye irritation

Section 313 Toxic Chemicals subject to the reporting requirements of that section and 40 CFR part 372 (EPCRA):

Ingredient

Zinc Borate 2335 (ZINC COMPOUNDS)

C.A.S. No 138265-88-0 % by Wt

#### 15.2. State Regulations

#### 15.3. Chemical Inventories

The components of this material are in compliance with the provisions of Australia National Industrial Chemical Notification and Assessment Scheme (NICNAS). Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the new substance notification requirements of CEPA.

The components of this material are in compliance with the China "Measures on Environmental Management of New Chemical Substance". Certain restrictions may apply. Contact the selling division for additional information.

The components of this material are in compliance with the provisions of the Korean Toxic Chemical Control Law. Certain restrictions may apply. Contact the selling division for additional information.

The components of this product are in compliance with the chemical notification requirements of TSCA.

## 15.4. International Regulations

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: Other information**

NFPA Hazard Classification

Health: 2 Flammability: 1 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

**Document Group:** 

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DISCLAIMER: The information in this Safety Data Sheet (SDS) is believed to be correct as of the date issued.3MMAKES

07/26/18

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# **SAFETY DATA SHEET – SET**

# Foam Sealant Type FST Kit

**Product ID numbers:** FST-250, FST-250KIT, FST-250KIT1,

FST-MINI-1, FST-MINI-1G, FST-MINI-B6; FST-XXX (where XXX is the package code.)

Date Compiled: August 24, 2017



# Supplier/Manufacturer:

American Polywater Corporation

11222 - 60th Street North Stillwater, MN 55082 USA Tel: 1-651-430-2270

Email: sds@polywater.com

# **Emergency telephone numbers**

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

This product is a kit or a multi-part product with independent components. An SD\$ for each component is included. Do not separate SDSs.

#### **Contains**

FST-A Foam Sealant Part A SDS FST-B Foam Sealant Part B SDS HPWipe Cleaning Towelette

SDSs are classified according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).

Each Kit may or may not contain all SDS components

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

Revision Date: August 9, 2017 Revision Number: rev 10 supersedes 9

# SAFETY DATA SHEET

# 1. Identification of the substance/mixture and of the company

#### 1.1 Product identifier

# Product Name: Foam Sealant FST (Part A)

Product ID numbers: FST-250, FST-250KIT, FST-250KIT1, FST-MINI-1, FST-MINI-1G, FST-MINI-B6, FST-MINI-B6; FST-XXX (where XXX is the package code.)

# 1.2 Relevant identified uses of the mixture and uses advised against

Identified uses:

Sealant, duct block; two-part material

List of advices against:

Not applicable.

# 1.3 Details of the supplier of the safety data sheet

# Supplier/Manufacturer:

American Polywater Corporation

11222 - 60th Street North Stillwater, MN 55082 USA Tel: 1-651-430-2270

Email: sds@polywater.com

## 1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

#### 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).

Acute Toxicity, Cat 4; H332 Skin Irritation, Cat 2; H315 Eye Irritation, Cat 2A; H319

Respiratory Sensitization, Cat 1; H334

Skin Sensitization, Cat 1; H317

Target Organ Toxicity (single exposure), Cat 3; H335 Target Organ Toxicity (repeated exposure), Cat 2; H373

#### 2.2 Label elements

Contains:

Polymeric diphenylmethane diisocyanate; 4,4'-Diphenylmethane diisocyanate (MDI)





Pictograms:

Signal word: Danger

Hazard Statements:

H332 Harmful if inhaled. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

Product Name: Foam Sealant FST (Part A)

Revision Date: August 9, 2017

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated inhalative exposure.

**Precautionary Statements:** 

P260 Do not breathe fumes. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves, protective clothing and eye protection. P284 In case of inadequate ventilation wear respiratory protection. P302 + P352 IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for P304 + P340 breathing. P305 + P351 + IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses P338 if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical attention. P337 + P313 If eve irritation persists: Get medical attention. P342 + P311 If experiencing respiratory symptoms: Call a poison center or doctor. P362 + P364 Take off contaminated clothing and wash it before reuse.

P501 Dispose of contents/container in accordance with local and national regulations.

4,4'-methylenediphenyl diisocyanate (MDI) has not been designated as a carcinogen

by IARC, NTP, ACGIH, OSHA, or the EPA. There are inadequate human

carcinogenicity data, and only limited animal data. Additionally, the IARC Working Group noted that tumorigenic effects observed in animals may be attributed to non-specific particle effect (IARC monograph 71). We have not classified substance as a carcinogen, but recommend that users avoid inhalation of vapor above exposure

limits.

2.3 Other hazards: No information available.

## 3. Composition/Information on Ingredients

Component Polymeric diphenylmethane diisocyanate	<u>CAS #</u> 9016-87-9	<u>Wt. %</u> 30 - 60	GHS Classification Acute Tox 4, Skin Irrit 2, Eye Irrit 2, Resp Sens1, STOT SE 3, STOT RE 2
4,4'-Diphenylmethane diisocyanate (MDI)	101-68-8	30 - 60	Acute Tox 4, Skin Sens 1, Skin rrit 2, Eye Irrit 2, Resp Sens1, STOT SE 3, Carc 2, STOT RE 2

#### 4. First Aid Measures

Notes:

4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with large quantity of water for 15 minutes. Seek medical

attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with soap and water. If

irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek

medical attention.

Ingestion (Swallowing): If swallowed, rinse mouth and drink plenty of water. Do not induce vomiting. If

patient is conscious, wash out mouth with water. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause allergic skin and respiratory reaction. Refer to Section 11 for more information.

4.3 Indication of immediate medical attention and special treatment needed.

No information available.

Product Name: Foam Sealant FST (Part A) Revision Date: August 9, 2017

## 5. Firefighting Measures

## 5.1 Extinguishing media:

Water Fog, Carbon Dioxide, Dry Chemical or Foam.

# 5.2 Special hazards arising from the substance or mixture

## Hazardous decomposition and by-products:

Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

# 5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.

#### 6. Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures:

Wear full protective clothing, including appropriate respiratory protection.

# 6.2 Environmental precautions:

Prevent from entering waterways.

# 6.3 Methods materials for containment and cleaning up:

Spills expected to be small quantities. Collect excess material with absorbents or wipe with dry towels. Wash with a dilute ammonia solution.

#### 6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

# 7. Handling and Storage

## 7.1 Precautions for safe handling

Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

#### 7.2 Conditions for safe storage, including incompatibilities

Keep containers cool, dry, and away from sources of ignition. Keep cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

#### 7.3 Specific end uses

See technical data sheet on this product for further information.

# 8. Exposure Controls / Personal Protection

#### 8.1 Control parameters

#### **Exposure limits and recommendations:**

Country/Source	Component	Long-term exposure limit 8 hr OEL, TWA	Short-term (ceiling) exposure limit – 15 min
USA – ACGIH TWA	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.02 ppm
USA – OSHA OEL	4,4'-Diphenylmethane diisocyanate (MDI)		0.02 ppm
USA – NIOSH REL	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.02 ppm
Canada (Ontario)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.02 ppm

Product Name: Foam Sealant FST (Part A)

Revision Date: August 9, 2017

Canada (Québec)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	**
Canada (British Columbia)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.01 ppm
Canada (Alberta)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm.	
Canada (Alberta)	Polymeric diphenylmethane diisocyanate	0.005 ppm	
Canada (Saskatchewan)	4,4'-Diphenylmethane diisocyanate (MDI)	0.005 ppm	0.015 ppm
Canada (Yukon)	4,4'-Diphenylmethane diisocyanate (MDI)	0.02 ppm	

ACGIH, OSHA and NIOSH have not established any OELs for Polymeric diphenylmethane diisocyanate (pMDI)

## 8.2 Exposure controls

# Respiratory protection:

Use with adequate ventilation to keep vapor concentration below acceptable limits. Observe OSHA standard 29 CFR 1910-94, 1910.107, 1910.108. Product dispensed through a static mixer and used as directed emits less than 0.001 ppm MDI vapor as tested by OSHA 47. Ventilation is not required for standard use. If product is use in a way that ventilation is not adequate, use approved chemical/mechanical filters designed to remove a combination of particulate and organic vapors in open and restricted areas. Use approved airline type respirators or hoods in confined areas. Observe OSHA standard 29 CFR 1910.134.

## **Protective gloves:**

The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include neoprene, butyl rubber, Viton, Buna N, and chlorinated polyethylene.

### Eye protection:

Safety glasses recommended.

# Other protective equipment:

Wear suitable protective clothing. Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

#### 9. Physical and Chemical

#### 9.1 Information of basic physical and chemical properties

Appearance: Brown liquid

Odor threshold: Faint, aromatic odor pH: Does not apply

Freezing point: 3°C
Boiling point: 200°C

Flash point: 428°F / 220°C (open cup)

Evaporation rate: Not available Flammability (solid, gas): Does not apply

Upper/lower flammability or

explosive limits: Not available

Vapor pressure: 0.00016 mm Hg @ 20°C

Vapor density (Air = 1): 1.22 g/cm<sup>3</sup> Specific gravity ( $H_2O = 1$ ): 1.22 @ 25°C

Solubility in water: Reacts

Partition coefficient: n-

octanol/water: Not available
Auto-ignition temperature: > 250°C (1112°F)
Decomposition temperature: Not available

**Viscosity:** 200 mPas @ 25°C / 77°F

Product Name: Foam Sealant FST (Part A) Revision Date: August 9, 2017

#### 9.2 Other Information

Volatiles (Weight %):

0%

**VOC Content:** 

0 a/l

# 10. Stability and Reactivity

## 10.1 Reactivity:

Reacts with water, reacts with substances which contain active hydrogen.

# 10.2 Chemical stability:

Stable

# 10.3 Possibility of hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions.

#### 10.4 Conditions to avoid:

Avoid freezing, high temperatures, flame, high humidity and water contamination.

## 10.5 Incompatible materials:

Water, alcohols, amines, acids, alkalis, metal compounds.

## 10.6 Hazardous decomposition products:

Carbon monoxide, hydrogen cyanide, nitrogen oxides, aromatic isocyanates, gases/vapors.

# 11. Toxicological Information

# 11.1 Information on toxicological effects:

## **Acute toxicity**

## Eye contact:

Direct eye contact with material or vapors may cause eye irritation.

#### Skin contact

Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material. Allergic skin reaction symptoms include redness, swelling, blistering and itching.

## Irritation and Sensitization Potential:

Product may be irritating to skin and eyes.

#### Inhalation (Breathing):

Material has low vapor pressure and inhalation hazard is expected to be minimal. Vapor exposure may cause irritation of the nose and throat. Symptoms may include burning sensation, coughing and shortness of breath, or other signs of respiratory distress. May cause allergic respiratory reaction below exposure guideline in susceptible individuals.

## Ingestion:

Ingestion may cause irritation of the gastrointestinal tract.

#### **Toxicity to Animals:**

4,4'-Diphenylmethane diisocyanate (MDI):

LD<sub>50</sub> (oral rat) >2,000 mg/kg

LD<sub>50</sub> (dermal rabbit) >9,400 mg/kg

LC<sub>50</sub> (inhl rat) 2.0 mg/L (OECD Guideline 403)

#### **Aspiration Hazard:**

No aspiration hazard expected.

#### **Chronic Exposure:**

**Reproductive Toxicity:** 

Not available.

Mutagenicity:

Not available.

Teratogenicity:

Not available.

**Specific Target Organ** 

Toxicity (STOT)

Contains material which causes damage to the upper respiratory tract.

Product Name: Foam Sealant FST (Part A) Revision Date: August 9, 2017

**Toxicologically Synergistic** 

**Products:** 

Not available.

Carcinogenic Status:

This substance contains components identified as IARC Category 3, not

classifiable.

4,4'-methylenediphenyl diisocyanate (MDI) has not been designated as a carcinogen by IARC, NTP, ACGIH, OSHA, or the EPA. There are inadequate human carcinogenicity data, and only limited animal data. Additionally, the IARC Working Group noted that tumorigenic effects observed in animals may be attributed to non-specific particle effect (IARC monograph 71). We have not classified substance as a carcinogen, but recommend that users avoid

inhalation of vapor above exposure limits.

# Respiratory/Skin Sensitization

May cause sensitization by inhalation and skin contact...

## 12. Ecological Information

# 12.1 Toxicity:

Aquatic Toxicity:

4,4'-Diphenylmethane diisocyanate LC<sub>50</sub> (96 hr): > 1,000 mg/l Brachydanio rerio (fish)

(MDI):

OECD Guideline 203 static EC<sub>50</sub> (24 hr): > 1,000 mg/l Daphnia magna (invertebrate) 4,4'-Diphenylmethane diisocyanate

(MDI):

OECD Guideline 202, part 1 static

4,4'-Diphenylmethane diisocyanate

EC<sub>50</sub> (72 hr): 1,640 mg/l Green algae (aquatic plants)

(MDI):

OECD Guideline 201 static

Elimination information: 12.2 Persistence and degradability:

<10% BOD of the ThOD (28d)

(OECD Guideline 302 C, aerobic, activated sludge)

Under test conditions, poorly biodegradable.

12.3 Bioaccumulation potential:

Accumulation in organisms is not to be expected.

12.4 Mobility in soil:

Adsorption to solid soil phase is not expected

12.5 Results of PBT and vPvB

12.6 Other adverse effects:

This product is not, nor does it contain a substance that is a PBT or vPvB.

Assessment:

None known.

# 13. Disposal Considerations

Dispose of product in accordance with National and Local Regulations.

#### 14. Transport Information

**UN Number:** 

Not Listed

**UN Proper shipping name:** 

Not Applicable

Transport hazard class(es):

Not Applicable

Packing group:

Not Applicable

**Environmental hazards:** 

None known

Special precautions:

None known

TDG:

Not Regulated Not Regulated

**ICAO/IATA-DGR:** 

Not Regulated

IMDG: ADR/RID:

Not Regulated

# 15. Regulatory Information

Revision Date: August 9, 2017 **Product Name:** Foam Sealant FST (Part A)

#### **USA Federal and State**

Components

All components are listed on the TSCA inventory.

**Hazard Categories for SARA** Chronic **Fire Pressure** Reactive Acute No Section 311/312 Reporting Yes No No Yes

SARA Sec. 313 **CERCLA/SARA Sec 302 Toxic Release Hazardous Substance RQ EHS TPQ** Yes (1%) 4.4'-Diphenylmethane diisocyanate (MDI) Yes (5,000 lbs) No No Yes (1%) No

Polymeric diphenylmethane diisocyanate

# California Proposition 65:

This product contains chemical(s) which are known to the State of California to cause cancer, birth defects or other reproductive harm and may be subject to the requirements of California Proposition 65: None

#### Canada

All components are listed on the DSL inventory.

This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

#### 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

#### 16. Other Information

**NFPA Ratings:** Health: 2

Fire: 1 Reactivity: 1

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

# Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration

STOT = Specific Target Organ Toxicity

 $LD_{50}$  = Median Lethal Dose

DNEL = Derived No Effect Level

ACGIH = American Conference of Governmental Industrial Hygienists

TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

#### Mixture classification according to Regulation (EC) No 1272/2008: Classification Procedure H332 Harmful if inhaled. Calculation method.

H315 Causes skin irritation. Calculation method. H317 May cause an allergic skin reaction. Calculation method.

H319 Causes serious eye irritation. Calculation method.

May cause allergy or asthma symptoms or breathing difficulties if H334 inhaled. Calculation method.

H335 May cause respiratory irritation. Calculation method. H373 May cause damage to organs through prolonged or repeated inhalative Calculation method.

exposure.

**Revision Date:** August 9, 2017 **Revision Number:** 

Supersedes:

March 10, 2016

Product Name: Foam Sealant FST (Part A)

Revision Date: August 9, 2017

Other: Not Applicable

Indication of Changes: Reviewed, section 2, 16 updated: precaution phrases adjusted, formatting updates.

Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and

Canada HPR (SOR/2015-17)(WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

Revision Date: August 16, 2017 Revision Number: 7 supersedes 6

# SAFETY DATA SHEET

# 1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: Foam Sealant FST (Part B)

Product ID numbers: FST-250, FST-250KIT, FST-250KIT1, FST-MINI-1, FST-MINI-1G, FST-MINI-B6, FST-MINI-B6; FST-XXX (where XXX is the package code.)

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses:

Sealant, duct block; two-part material

List of advices against:

Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

American Polywater Corporation

11222 - 60th Street North Stillwater, MN 55082 USA

Tel: 1-651-430-2270 Email: sds@polywater.com

1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

#### 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).

Acute Toxicity, Cat 4; H302

2.2 Label elements

Contains: 2-Propanol,1-chloro-, Phosphate (3:1)



Pictograms:

Signal word:

Warning

Hazard Statements:

H302

Harmful if swallowed.

Precautionary Statements:

P270

Do not eat drink or smoke when using this product. IF SWALLOWED: Call a doctor if you feel unwell.

P301 + P312

Discount of

P330 P501

Dispose of contents in accordance with local regulations.

2.3 Other hazards:

No information available.

# 3. Composition/Information on Ingredients

Component	CAS#	EC#	Wt. %	GHS/CLP Classification
Polyether polyol mixture	Proprietary	-	60 - 100	
2-propanol, 1-chloro-, Phosphate (3:1)	13674-84-5	237-158-7	10 - 30	Acute Tox. 4

Product Name: Foam Sealant FST (Part B) Revision Date: August 16, 2017

Tertiary amine compounds Proprietary -- 0.1 - 1

## 4. First Aid Measures

# 4.1 Description of first aid measures

Eye Contact: Immediately flush eyes with large quantity of water for 15 minutes. Seek medical

attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with soap and water. If

irritation occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek

medical attention.

Ingestion (Swallowing): If swallowed, get medical attention. Do not induce vomiting. If patient is

conscious, wash out mouth with water. Never give anything by mouth to an

unconscious person. Do not leave victim unattended.

# 4.2 Most important symptoms and effects, both acute and delayed

No information available.

# 4.3 Indication of immediate medical attention and special treatment needed.

No information available.

# 5. Firefighting Measures

# 5.1 Extinguishing media:

Water Fog, Carbon Dioxide, Dry Chemical or Foam.

# 5.2 Special hazards arising from the substance or mixture

## Hazardous decomposition and by-products:

Carbon monoxide, carbon dioxide, phosphorus oxides, silicon dioxide, hydrogen chloride gas.

# 5.3 Advice for firefighters

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be used to cool fire exposed container to prevent pressure build-up and possible auto-ignition or rupture.

#### 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Wear full protective clothing, including appropriate respiratory protection.

# **6.2 Environmental precautions:**

Prevent from entering waterways.

# 6.3 Methods materials for containment and cleaning up:

Spills expected to be small quantities. Collect excess material with absorbents or wipe with dry towels. Wash with a dilute ammonia solution.

# 6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

# 7. Handling and Storage

#### 7.1 Precautions for safe handling

Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only.

## 7.2 Conditions for safe storage, including incompatibilities

Keep containers dry, and away from excessive heat. Keep cartridges capped and sealed. Protect from freezing. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Product Name: Foam Sealant FST (Part B) Revision Date: August 16, 2017

# 7.3 Specific end uses

See technical data sheet on this product for further information.

# 8. Exposure Controls / Personal Protection

# 8.1 Control parameters

# **Exposure limits and recommendations:**

Contains no components with established Occupational Exposure Limit (OEL) values.

# 8.2 Exposure controls

# Respiratory protection:

Use with adequate ventilation to keep vapor concentration below acceptable limits.

## **Protective gloves:**

The use of chemically resistant gloves is recommended to prevent skin contact. Suitable materials include neoprene, butyl rubber, Viton, Buna N, and chlorinated polyethylene.

## Eye protection:

Safety glasses recommended.

## Other protective equipment:

Use protective cream if skin contact is likely. Remove and wash contaminated clothing before reuse. Discard contaminated shoes.

# 9. Physical and Chemical

## 9.1 Information of basic physical and chemical properties

Appearance: Clear to light amber liquid

Odor threshold: Mild amine odor pH: Not available

Freezing point: Not available
Boiling point: Not available

Flash point: >350°F / >177°C (PMCC)

Evaporation rate: Not available
Flammability (solid, gas): Does not apply

Upper/lower flammability or

explosive limits:

Vapor pressure:

Not available

Not available

Vapor density (Air = 1):

Not available

Not available

1.1 @ 25°C

Solubility in water:

Not available

Partition coefficient: n-

octanol/water:

Auto-ignition temperature:

Not available
Not available
Not available

**Viscosity:** 650 cps @ 25°C / 77°F

9.2 Other Information

Volatiles (Weight %): 0%
VOC Content: 0 g/l

#### 10. Stability and Reactivity

#### 10.1 Reactivity:

Product Name: Foam Sealant FST (Part B)

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability:

Stable

#### 10.3 Possibility of hazardous reactions:

Hazardous reactions will not occur under normal transport or storage conditions.

#### 10.4 Conditions to avoid:

Avoid freezing, high temperatures, and moisture.

### 10.5 Incompatible materials:

Isocyanates, strong oxidizing agents and strong bases.

### 10.6 Hazardous decomposition products:

Carbon monoxide, carbon dioxide, phosphorus oxides, silicon dioxide, hydrogen chloride gas.

## 11. Toxicological Information

# 11.1 Information on toxicological effects:

# **Acute toxicity**

# Eye contact:

Direct eye contact with material or vapors may cause eye irritation.

#### Skin contact:

May cause skin irritation

#### Irritation and Sensitization Potential:

Not considered a skin sensitizer.

## Inhalation (Breathing):

May cause respiratory irritation.

## Ingestion:

Harmful if swallowed.

#### **Toxicity to Animals:**

2-propanol, 1-chloro-, Phosphate (3:1) LD<sub>50</sub> (oral rat) 1,500 mg/kg

LD<sub>50</sub> (dermal rabbit) 1,230 mg/kg LC<sub>10</sub> (inhl rat) 5 mg/m<sup>3</sup>, 4 hours

#### **Aspiration Hazard:**

No aspiration hazard expected.

## **Chronic Exposure:**

**Reproductive Toxicity:** 

Not available.

**Mutagenicity:** 

Not available.

Teratogenicity:

Not available.

Specific Target Organ

Toxicity (STOT)

Not available.

**Toxicologically Synergistic** 

**Products:** 

Not available.

This substance has not been identified as a carcinogen or probable

Carcinogenic Status:

carcinogen by NTP, IARC, or OSHA, nor have any of its components.

# 12. Ecological Information

12.1 Aquatic Toxicity:

No information available.

12.2 Persistence and degradability:

No information available.

12.3 Bioaccumulation potential:

No information available.

12.4 Mobility in soil:

No information available.

Revision Date: August 16, 2017

Revision Date: August 16, 2017 Product Name: Foam Sealant FST (Part B)

12.5 Results of PBT and vPvB

Assessment:

This product is not, nor does it contain a substance that is a PBT or

vPvB.

12.6 Other adverse effects:

Nane known.

## 13. Disposal Considerations

Dispose of product in accordance with National and Local Regulations.

## 14. Transport Information

UN Number:

Not Listed

UN Proper shipping name:

Not Applicable

Transport hazard class(es):

Not Applicable

Packing group:

Not Applicable

Environmental hazards:

None known

Special precautions:

None known

TDG:

Not Regulated

ICAO/IATA-DGR:

Not Regulated

IMDG:

Not Regulated

ADR/RID:

Not Regulated

# 15. Regulatory Information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **USA Federal and State**

All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting

Acute Yes

Chronic No

Fire No

Pressure

Reactive

No

Components

CERCLA/SARA Sec 302 Hazardous Substance RQ

**EHS TPQ** 

SARA Sec. 313 Toxic Release

The components of Foam Sealant FST - Part B are not affected by these Superfund regulations.

NFPA Ratings:

Health:

1

Fire:

Reactivity:

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

#### European Union

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list ≥ 0.1% SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Contains no REACH substances with Annex XVII restrictions.

#### Canada

All components are listed on the DSL inventory.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

#### Australia

All components are listed on the AICS.

Hazardous according to criteria of NOHSC Australia. Product classified as harmful (Xn).

Product Name: Foam Sealant FST (Part B) Revision Date: August 16, 2017

## 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

# 16. Other Information

Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration

CLP = Classification, Labeling and Packaging Regulation

STOT = Specific Target Organ Toxicity

LD<sub>50</sub> = Median Lethal Dose

DNEL = Derived No Effect Level

ACGIH = American Conference of Governmental Industrial Hygienists

TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

AICS = Australian Inventory of Chemical Substances

Mixture classification according to Regulation (EC) No 1272/2008:

Classification Procedure

H302 Harmful if swallowed.

Calculation method.

**Revision Date:** 

August 16, 2017

**Revision Number:** 

7 NA

Supersedes:

January 2, 2015 Not Applicable

Other: Indication of Changes:

Reviewed, section 2, 16 updated: precaution phrases adjusted, formatting updates.

Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and

Canada HPR (SOR/2015-17)(WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

Revision Date: July 31, 2017 Revision Number: 5, supersedes 4

# SAFETY DATA SHEET

# 1. Identification of the substance/mixture and of the company

#### 1.1 Product identifier

# Product Name: Type HP™ Cleaner/Degreaser Saturated Towel/Wipe Package

Product ID numbers: HP-1, HP-1B, HP-1M,

HP-P158ID, HP-P158IDB, HP-P158IDM, HP-3P158IDS, HP-6P158ID,

HP-P1K, HP-P63 HP-D72, HP-D72E, HP-P31212, HP-P369,

HP-T369/S, HP-T369/SH, HP-T369/SH48, HP-T369/S-D

1.2 Relevant identified uses of the mixture and uses advised against

Identified uses: Electrical cleaning
List of advices against: Not applicable.

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer:

American Polywater Corporation

11222 - 60th Street North Stillwater, MN 55082 USA Tel: 1-651-430-2270 Email: sds@polywater.com

1.4 Emergency telephone numbers

INFOTRAC: 1-800-535-5053 (USA) 1-352-323-3500 (INT'L)

#### 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to USA OSHA 29 CFR 1910.1200 (2012) and Canada HPR (SOR/2015-17; WHMIS 2015).

Skin Sens 1 H317 Flam Liq 4 H227

2.2 Label elements

Contains: Petroleum distallates, hydrotreated light; d-Limonene



Pictograms:

Signal word: Warning

Hazard Statements:

H227 Combustible liquid

H317 May cause an allergic skin reaction.

Product Name: Type HP™ Cleaner/Degreaser, Saturated Towelette Package Revision Date: July 31, 2017

**Precautionary Statements:** 

P210 Keep away from flames and hot surfaces. No smoking.

P261 Avoid breathing fumes.
P280 Wear protective gloves.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical advice.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use water fog, foam, dry chemical or carbon dioxide for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local and national regulations.

Notes: Aspiration classification not applied due to the physical form of the product

**2.3 Other hazards:** No information available.

# 3. Composition/Information on Ingredients

Component	CAS#	EC #	<u>Wt. %</u>	GHS/CLP Classification
				Asp. Tox. 1 H304;
				EUH066
Petroleum distillates,				Skin Irrit. 3 H316;
hydrotreated light	64742-47-8	265-149-8	< 100	Flam Liq 4 H227
				Flam Liq 3, H226
				Skin Irrit 2, H315
				Skin Sens 1, H317
				Aquatic Chronic 1, H410
d-Limonene	5989-27-5	227-813-5	< 10	Aquatic Acute 1, H400

# 4. First Aid Measures

### 4.1 Description of first aid measures

Eye Contact: If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes

with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.

Skin Contact: Remove contaminated clothing; flush skin thoroughly with water. If irritation

occurs, seek medical attention.

Inhalation (Breathing): If irritation of nose or throat develops, move to fresh air. If irritation persists, seek

medical attention. If breathing is difficult, provide oxygen. If not breathing, give

artificial respiration. Seek immediate medical attention.

Ingestion (Swallowing): Do not induce vomiting or give anything by mouth. If victim is drowsy or

unconscious, place on the left side with head down. Do not leave victim

unattended. Seek medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

Refer to Section 11 for more information.

#### 4.3 Indication of immediate medical attention and special treatment needed.

No information available.

#### 5. Firefighting Measures

# 5.1 Extinguishing media:

Carbon dioxide, water fog, dry chemical or foam.

#### 5.2 Special hazards arising from the substance or mixture

# Hazardous decomposition and by-products:

Burning generates CO, CO<sub>2</sub> and smoke. Smoke may be acrid and fumes irritating.

Product Name: Type HP™ Cleaner/Degreaser, Saturated Towelette Package Revision Date: July 31, 2017

# 5.3 Advice for firefighters

Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Use water spray to cool fire exposed containers.

#### 6. Accidental Release Measures

# 6.1 Personal precautions, protective equipment and emergency procedures:

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Limited spill hazard with saturated towel package.

# 6.2 Environmental precautions:

Avoid release to the environment.

# 6.3 Methods materials for containment and cleaning up:

Collect towel and absorb any excess material with sand or absorbents.

#### 6.4 Reference to other sections:

Refer to Sections 4, 5, 8, and 13 for more information.

# 7. Handling and Storage

#### 7.1 Precautions for safe handling

Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing vapors or spray. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Wash contaminated clothing before reuse. For industrial or professional use only. Avoid contact with oxidizing agents (eg. chlorine, chromic acid etc.)

# 7.2 Conditions for safe storage, including incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store away from acids and oxidizing agents.

#### 7.3 Specific end uses

See technical data sheet on this product for further information.

# 8. Exposure Controls / Personal Protection

# 8.1 Control parameters

# Exposure limits and recommendations:

Petroleum Distillates,	hydrotreated	light (64742-47-8)
------------------------	--------------	--------------------

Country/Source	Long-term exposure limit – 8 hr TWA	Short-term exposure limit – 15 min
Manufacturer, RCP* TWA	1200 mg/m <sup>3</sup>	
USA, ACGIH TWA	Not established	Not established
USA, OSHA PEL	2000 mg/m³, 500 ppm (as petroleum distillates (naphtha))	
British Columbia	200 mg/m <sup>3</sup>	
Alberta, Quebec, Yukon, Saskatchewan, Ontario*	Not established	-

#### **D-Limonene (5989-27-5)**

Country/Source	Long-term exposure limit – 8 hr TWA	Short-term exposure limit – 15 min
USA ACGIH TWA	Not established	Not established
USA OSHA PEL	Not established	Not established
Alberta, Quebec, Yukon,		

Alberta, Quebec, Yukon British Columbia.

Onelantalanceae Ontonia

Saskatchewan, Ontario\* Not established Not established

Product Name: Type HP™ Cleaner/Degreaser, Saturated Towelette Package

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# 8.2 Exposure controls

#### Respiratory protection:

Normal ventilation is adequate. Towelette limits solvent vapor exposure. If exposure exceeds redommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH or CE approved) with particulate pre-filter, P100 or AP2.

#### **Protective gloves:**

For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.

Suggested Material:

Nitrile Rubber

Suggested Thickness:

For short term contact (<15 minutes), splashes use 0.2 mm. For full contact use

0.4 mm

Exact break-through time has not been determined. Guidance is based on similar chemistry/material. Maximum wearing time should be determined based on 50 % of the penetration time determined by EN 374 part III.

# Eye protection:

None necessary. Wipe package eliminates splash hazard. Do not allow wipe/towel to directly contact eyes.

#### Other protective equipment:

It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.

#### 9. Physical and Chemical

# 9.1 Information of basic physical and chemical properties (bulk liquid)

Clear, colorless liquid with a very light citrus scent. Appearance:

Odor threshold: Not available :Ha Does not apply

Freezing point: <-58°F (<-50°C)

365°F (185°C) Initial **Boiling point:** 

>140°F (>60.5°C), Closed Cup (PMCC) Flash point:

<0.1 (n-butyl acetate = 1) **Evaporation rate:** Flammability (solid, gas):

Upper/lower flammability or

Not applicable to liquids

LEL = 0.7% UEL = 6.1%-7.0% explosive limits: <1 mm Hg < 134 Pa @ 20°C Vapor pressure:

Vapor density (Air = 1): > 1.0 Specific gravity (H₂O = 1): 0.79 Solubility in water: Nil

Partition coefficient: n-

octanol/water: Not available **Auto-ignition temperature:** Not available **Decomposition temperature:** Not available Viscosity: Not available

#### 9.2 Other Information

Volatiles (Weight %): 100% **VOC Content:** 790 g/l

#### 10. Stability and Reactivity

<sup>\*</sup> reciprocal calculation procedure for total hydrocarbons

<sup>\*\*</sup> Manitoba, Newfoundland and Labrador, Nova Scotia, and Prince Edward Island are all based on the current ACGIH TLVs. New Brunswick is based on an older version ACGIH. Nunavet and Northwest Territories are based heavily on current ACGIH TLYs.

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## 10.1 Reactivity:

See remaining headings in Section 10.

#### 10.2 Chemical stability:

Stable

#### 10.3 Possibility of hazardous reactions:

None known.

#### 10.4 Conditions to avoid:

Avoid heat, flame, and sparks.

# 10.5 Incompatible materials:

Strong oxidizing agents.

# 10.6 Hazardous decomposition products:

Carbon dioxide, carbon monoxide.

# 11. Toxicological Information

# 11.1 Information on toxicological effects:

## **Acute toxicity**

#### **Eve contact:**

Direct eye contact may cause eye irritation. This irritation is minimal and expected to be transient.

#### Skin contact:

Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

#### Irritation and Sensitization Potential:

Product may be irritating to skin and eyes. It may cause an allergic skin reaction.

#### Inhalation (Breathing):

Concentrated petroleum solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.

#### Ingestion:

Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

# **Toxicity to Animals:**

Petroleum distillates.

hydrotreated light: LD<sub>50</sub> (oral rat) >5000 mg/kg

LD<sub>50</sub> (dermal rabbit) >2000 mg/kg

LC<sub>50</sub> (inhl rat) >4.3mg/L, 4 hours

d-Limonene: LD<sub>50</sub> (oral rat) >5000 mg/kg

LD<sub>50</sub> (dermal rabbit) 5000 mg/kg

RD<sub>50</sub> 1000 ppm

#### **Aspiration hazard**

Liquid solvent has an aspiration hazard. This route of exposure is not expected for towelette form.

#### Chronic Exposure:

**Reproductive Toxicity:** 

Not available.

Mutagenicity:

Not available.

Teratogenicity:

**Toxicity (STOT)** 

Specific Target Organ

Not available.

No end point data.

**Toxicologically Synergistic** 

Products:

Not available.

Product Name: Type HP™ Cleaner/Degreaser, Saturated Towelette Package Revision Date: July 31, 2017

Carcinogenic Status:

This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.

#### 12. Ecological Information

12.1 Toxicity:

**Ecotoxicity:** No information available. **Aquatic Toxicity:** No information available.

12.2 Persistence and degradability:

Expected to be biodegradable.

12.3 Bioaccumulation potential:

No information available

12.4 Mobility in soil:

No information available.

12.5 Results of PBT and vPvB

Assessment:

This product is not, nor does it contain a substance that is a PBT or

vPvB.

12.6 Other adverse effects:

None known.

# 13. Disposal Considerations

Dispose of product in accordance with National and Local Regulations.

# 14. Transport Information

**UN Number:** 

Not Listed

**UN Proper shipping name:** 

Not Applicable

Transport hazard class(es):

Not Applicable

Packing group:

Not Applicable

**Environmental hazards:** 

None known

**Special precautions:** 

**ICAO/IATA-DGR:** 

None known

TDG:

Not Regulated

IMDG:

Not Regulated Not Regulated

ADR/RID:

Not Regulated

#### 15. Regulatory Information

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **USA Federal and State**

All components are listed on the TSCA inventory.

**Hazard Categories for SARA** Acute

No

Chronic No

Fire Yes

**Pressure** No

Reactive No

Section 311/312 Reporting

CERCLA/SARA Sec 302

SARA Sec. 313

**Components** 

**Hazardous Substance RQ** 

1 2 **EHS TPQ** 

**Toxic Release** 

Components are not affected by these Superfund regulations.

**NFPA Ratings:** 

Health:

Fire:

Reactivity:

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

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## **European Union**

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. All components are listed on the European Inventory of Existing Chemical Substances (EINECS). Contains no substance on the REACH candidate list ≥ 0.1% SCL. Does not contain notified substances from the ELINCS List, Directive 92/32/EEC. Contains no REACH substances with Annex XVII restrictions.

#### Canada

All components are listed on the DSL inventory.

This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

#### **Australia**

All components are listed on the AICS.

Hazardous according to criteria of NOHSC Australia. Product classified as harmful (Xn).

## 15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out for the mixture by the supplier.

# 16. Other Information

# Abbreviations and acronyms:

OSHA = Occupational Safety and Health Administration

CLP = Classification, Labeling and Packaging Regulation

STOT = Specific Target Organ Toxicity

LD<sub>50</sub> = Median Lethal Dose

DNEL = Derived No Effect Level

ACGIH = American Conference of Governmental Industrial Hygienists

TSCA = Toxic Substances Control Act (USA)

DSL = Domestic Substances List (Canada)

AICS = Australian Inventory of Chemical Substances

# Mixture classification according to Regulation (EC) No 1272/2008:

**Classification Procedure** 

H227 Combustible liquid

H317 May cause an allergic skin reaction.

Physical Testing Calculation method.

**Revision Date:** 

July 31, 2017

**Revision Number:** 

5 NA

Supersedes:

January 2, 2015

Other:

Not Applicable

**Indication of Changes:** 

Sections 1.1, 2, 8.1 updated: additional product codes, additional precautionary

statements, and additional information on exposure limits.

Written in accordance with the provisions of OSHA 1910.1200 App D (2012) and

Canada HPR (SOR/2015-17)(WHMIS 2015). (GHS format)

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

# Material Safety Data Sheet

24 Hour Emergency Phone Numbers:

Medical: 1-800-327-3874

1-513-558-5111

Transportation:

1-800-535-5053 1-352-323-3500

NOTE: National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

IMPORTANT: Provide this information to employees, customers, and users of this product. Read this MSDS before handling or disposing of this product. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard. All abbreviated terms used in this MSDS are further described in Section 16.

# Section 1 - Chemical Product / Company Information

This Material Safety Data Sheet is available in Canadian French and Hispanic American Spanish upon request.

Esta hoja de datos de la seguridad de los materiales está disponible en francés canadiense y en español a su solicitud.

Los Datos de Serguridad del Producto pueden obtenerse en Espanol si lo riquiere.

**Product Name:** 

DAP® Ready-Mixed Concrete Patch (RTU)

Revision Date: 03/02/2007

Product UPC Number:

7079831084 7079831090

Supercedes:

09/17/2002

Product Use/Class:

RTU Concrete Repair/Floor Prep

MSDS Number: 00079707001

Manufacturer:

DAP Inc.

2400 Boston Street Suite 200 Baltimore, MD 21224-4723

888-327-8477 (non-emergency matters)

Section 2 - Composition / Information On Ingredients									
Chemical Name	CASRN	WT%	ACGIH TWA	ACGIH STEL	ACGIH CEIL	OSHA TWA	OSHA STEL	OSHA CEIL	Skir
Silica, crystalline	14808-60-7	30-60	0.05 MGM.	N.E.	N.E.	10/(%SiO2 + 2) MGM3	N.E.	N.E.	No
Calcium carbonate	1317-65-3	10-30	10 MGM3	N.E.	N.E.	5 MGM3 (respirable fraction)	N.E.	N.E.	No
Kaolin	1332-58-7	1-5	2 MGM3	N.E.	N.E.	15 MGM3	N.E.	N.E.	No
Ethylene glycol	107-21-1	0.1-1.0	N.E.	N,E.	100 MGM3	N,E,	N.E.	N.E.	No
Vinyl acctate	108-05-4	<0.09	10 PPM	15 PPM	N.E.	N.E.	N.E.	N.E.	No
Formaldehyde	50-00-0	< 0.006	N.E.	N.E.	0.3 PPM	0.75 PPM	2 PPM	N.E.	No

#### **Exposure Notes:**

50-00-0 Formaldehyde is a specially regulated substance for which an OSHA chemical-specific exposure standard exits. Detailed information regarding this substance may be found in 29 CFR 1910.1048. Medical surveillance information regarding this substance may be found in Appendix C to 29 CFR 1910.1048.

Important: Listed Permissible Exposure Levels (PEL) are from the U.S. Dept. of Labor OSHA Final Rule Limits (CFR 29 1910.1000); these limits may vary between states.

Note: An employee's skin exposure to substances having a "YES" in the "SKIN" column in the table above shall be prevented or reduced to the extent necessary under the circumstances through the use of gloves, coveralls, goggles or other appropriate personal protective equipment, engineering controls or work practices

# Section 3 - Hazards Identification

Emergency Overview: A gray paste product with a musty odor. WARNING! May cause eye, skin, nose, throat and

respiratory tract irritation. Harmful if swallowed or absorbed through the skin. This product contains ethylene glycol.

Refer to other MSDS sections for other detailed information.

Effects Of Overexposure - Eye Contact: May cause eye irritation.

Effects Of Overexposure - Skin Contact: Harmful if absorbed through the skin. May cause skin irritation. May cause dry skin.

Effects Of Overexposure - Inhalation: Harmful if inhaled. Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

Effects Of Overexposure - Ingestion: Harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: Prolonged and repeated skin contact may cause irritation and possibly dermatitis. Repeated or prolonged exposure may cause respiratory system damage.

Overexposure may cause kidney, cardiovascular, skin and liver damage.

Formaldehyde vapor is a known animal carcinogen according to OSHA and NTP and is considered possibly carcinogenic to humans by inhalation. The International Agency for Research on Cancer considers formaldehyde to be a human carcinogen.

Ethylene Glycol may cause kidney and liver damage upon prolonged and repeated overexposures. Studies have shown that repeated inhalation of ethylene glycol has produced adverse cardiovascular changes in laboratory animals. Ethylene glycol has been shown to cause birth defects in laboratory animals.

This product contains vinyl acetate which is classified as a class 2B carcinogen by IARC. Vinyl acetate was found to cause cancer in the respiratory tract of laboratory animals. There is no evidence that vinyl acetate causes cancer in humans. The IARC published a monograph on vinyl acetate (1995). In this monograph, IARC indicates "there is inadequate evidence in humans for carcinogenicity of vinyl acetate. There is limited evidence in experimental animals for the carcinogenicity of vinyl acetate." Normally, this lack of conclusive evidence would place a substance in the IARC 3 classification (not classified as a human carcinogen). However, because vinyl acetate is metabolized to acetaldehyde, which has an IARC 2B (possibly carcinogenic to humans) classification, it also has been listed under Category 2B.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Medical Conditions which May be Aggravated by Exposure: Asthma and asthma-like conditions may worsen from prolonged and repeated exposure.

# Section 4 - First Aid Measures

First Aid - Eye Contact: In case of contact, immediately flush eyes with large quantities of water for at least 15 minutes until irritation subsides. Get medical attention immediately.

First Aid - Skin Contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing.

First Aid - Inhalation: If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

First Aid - Ingestion: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

Note to Physician: None.

**COMMENTS:** Call Medical Emergency at 1-800-327-3874 if any irritation or complication arises from any of the above routes of entry.

### Section 5 - Fire Fighting Measures

Flash Point, F: Greater than 200 Method: (Seta Closed Cup)

Lower Explosive Limit, %: Not Established Upper Explosive Limit, %: Not Established

Extinguishing Media: Alcohol, Carbon Dioxide, Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: No special protective measures against fire required.

**Special Firefighting Procedures:** Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces.

### Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled: Wear proper protective equipment as specified in Section 8. Use absorbent material or scrape up dried material and place in container.

### Section 7 - Handling And Storage

Handling: KEEP OUT OF REACH OF CHILDREN! DO NOT TAKE INTERNALLY. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Avoid breathing vapor and contact with eyes, skin and clothing. Wash thoroughly after handling. Do not inhale dusts of this product.

**Storage:** Close container after each use. Store away from caustics and oxidizers. Store containers away from excessive heat and freezing. Do not store at temperatures above 120 degrees F.

## Section 8 - Exposure Controls / Personal Protection

Precautionary Measures: Please refer to other sections and subsections of this MSDS.

Engineering Controls: Good general ventilation should be sufficient to control airborne levels. Ensure adequate ventilation, especially in confined areas. Local ventilation of emission sources may be necessary to maintain ambient concentrations below recommended exposure limits. If dry-sanding, provide sufficient mechanical ventilation to maintain exposure below PEL and TLV.

Respiratory Protection: In case of insufficient ventilation, wear suitable respiratory equipment. A NIOSH approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. Use an approved NIOSH/OSHA respirator if dry sanded.

Skin Protection: Rubber gloves.

Eye Protection: Goggles or safety glasses with side shields.

Other protective equipment: Not required under normal use.

Hygienic Practices: Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

### **Section 9 - Physical And Chemical Properties**

Boiling Range: Odor:

210 - 220 F Mustv Vapor Density: Odor Threshold: Heavier Than Air Not Established

Appearance:

Gray

Evaporation Rate:

Slower Than n-Butyl Acetate

Solubility in H2O: **Freeze Point:** 

Not Established Not Established 17.5 mm Ha

Vapor Pressure: **Physical State:** 

**Paste** 

**Specific Gravity:** 

pH: Viscosity: 1.895

Between 7.0 and 12.0

Not Established

When reported, vapor pressure of this product has been calculated theoretically based on its constituent makeup and has not been determined experimentally.

(See section 16 for abbreviation legend)

### **Section 10 - Stability And Reactivity**

Conditions To Avoid: Excessive heat and freezing.

Incompatibility: Incompatible with strong bases and oxidizing agents.

Hazardous Decomposition Products: Normal decomposition products, i.e., COx, NOx.

Hazardous Polymerization: Hazardous polymerization will not occur under normal conditions.

Stability: Stable under recommended storage conditions.

### **Section 11 - Toxicological Information**

Product LC50: Not Established Product I D50: Not Established

CASRN	Chemical Name	LD50	LC50	WT%
107-21-1	Ethylene glycol	Rat:4700 mg/kg	Rat:10876 mg/kg	0,1-1,0
108-05-4	Vinyl acetate	************	Rat:11400 mg/m3/4H	<0.09
50-00-0	Formaldehyde		Rat:203 mg/m3	<0.006

#### Carcinogenicity:

CAS No.	Chemical Name	ACGIH	OSHA	IARC	NTP	WT%
14808-60-7	Silica, crystalline	Suspected human carcinogen.	Not Listed.	Human carcinogen.	Known carcinogen.	30-60
108-05-4	Vinyl acetate	Confirmed animal carcinogen with unknown relevance to humans	Not Listed.	Possible carcinogen.	Not Listed.	<0.09
50-00-0	Formaldehyde	Suspected human carcinogen.	Potential cancer hazard.	Human carcinogen.	Anticipated carcinogen.	<0.006_

Significant Data with Possible Relevance to Humans: This product contains trace amounts of free formaldehyde. OSHA and NTP identify formaldehyde as a potential carcinogen. IARC identifies formaldehyde as a human carcinogen. Formaldehyde has been shown to cause mutations in a variety of in-vitro test systems, the significance of which to humans is unknown. In a two-year inhalation study, rats showed carcinogenic effects in the respiratory system at 15 ppm of formaldehyde. There should be minimal risk when used with ventilation adequate to keep the atmospheric concentration of formaldehyde below the recommended exposure limits.

Maintain adequate ventilation to prevent exposure above current OSHA / ACGIH exposure limits. Workplace monitoring of the air to define formaldehyde exposure levels may be necessary.

### Section 12 - Ecological Information

Ecological Information: Ecological injuries are not known or expected under normal use.

### Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

### Section 14 - Transportation Information

**DOT Proper Shipping** 

Not Regulated

Packing Group:

N.A.

Name:

DOT Technical Name: DOT Hazard Class:

N.A.

Hazard Subclass: DOT UN/NA Number: N.A. None

Note: The shipping information provided is applicable for domestic ground transport only. Different categorization may apply if shipped via other modes of transportation and/or to non-domestic destinations.

### Section 15 - Regulatory Information

#### **CERCLA - SARA Hazard Category:**

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Immediate Health Hazard, Chronic Health Hazard, Fire Hazard

#### **SARA Section 313:**

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None

#### **Toxic Substances Control Act:**

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None

### **U.S. State Regulations**

#### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product:

Chemical Name	CAS Number	WT%
Water	7732-18-5	10-30
Acrylic Polymer	Proprietary	7-13

#### Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%:

Chemical Name	CAS Number	WT%
Water	7732-18-5	10-30
Acrylic Polymer	Proprietary	7-13

#### California Proposition 65:

Warning: The following ingredients present in the product are known to the State of California to cause cancer:

Chemical Name	CAS Number	Definition	Date Listed	WT%
Silica, crystalline	14808-60-7	Carcinogenic.	Listed: October 1, 1988	30-60
Formaldeliyde	50-00-0	Carcinogenic	Listed: January 1, 1988	<0,006

Warning: The following ingredients present in the product are known to the State of California to cause birth defects or other reproductive harm:

None

### Section 16 - Other Information

#### **HMIS Ratings:**

Health: 1

Flammability: 0

Reactivity: 0

Personal Protection: X

**VOLATILE ORGANIC COMPOUNDS, GR/LTR: 25.4** 

LB/GAL: 0.2 WT%: 0.95

**REASON FOR REVISION: Periodic Update** 

Legend:

N.A. Not Applicable

ACGIH American Conference of Governmental Industrial Hygienists

N.E. Not Established

SARA Superfund Amendments and Reauthorization Act of 1986

N.D. Not Determined

NJRTK New Jersey Right-to-Know Law

VOC Volatile Organic Compound

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

HMIS . Hazardous Materials Identification System

TLV : Threshold Limit Value

NTP National Toxicology Program

STEL Short Term Exposure Limit

**CEIL** Ceiling Exposure Limit

LD50 \_ Lethal Dose 50

LC50 Lethal Concentration 50

F : Degree Fahrenheit

C Degree Celsius

MSDS : Material Safety Data Sheet

CASRN The Chemical Abstracts Service Registry Number

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.

<End of MSDS>



### SAFETY DATA SHEET

#### THE DOW CHEMICAL COMPANY

Product name: GREAT STUFF PRO™ Gaps & Cracks Insulating

Foam Sealant GUN 24oz HC ES 12ct

Issue Date: 04/10/2015

Print Date: 06/19/2015

THE DOW CHEMICAL COMPANY encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

#### 1. IDENTIFICATION

Product name: GREAT STUFF PRO™ Gaps & Cracks Insulating Foam Sealant GUN 24oz HC ES

Recommended use of the chemical and restrictions on use

**Identified uses:** Polyurethane foam.

**COMPANY IDENTIFICATION** 

THE DOW CHEMICAL COMPANY 2030 WILLARD H DOW CENTER MIDLAND MI 48674-0000 UNITED STATES

**Customer Information Number:** 

800-258-2436

SDSQuestion@dow.com

**EMERGENCY TELEPHONE NUMBER** 

**24-Hour Emergency Contact:** 800-424-9300 **Local Emergency Contact:** 800-424-9300

#### 2. HAZARDS IDENTIFICATION

#### Hazard classification

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Flammable aerosols - Category 2

Acute toxicity - Category 4 - Inhalation

Skin irritation - Category 2

Eye irritation - Category 2B

Respiratory sensitisation - Category 1

Skin sensitisation - Category 1

Carcinogenicity - Category 2

Effects on or via lactation

Specific target organ toxicity - single exposure - Category 3

Specific target organ toxicity - repeated exposure - Category 2 - Inhalation

#### Label elements Hazard pictograms







Signal word: DANGER!

#### Hazards

Flammable aerosol.

Causes skin and eye irritation.

May cause an allergic skin reaction.

Harmful if inhaled.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation.

Suspected of causing cancer.

May cause harm to breast-fed children.

May cause damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

#### Precautionary statements

#### Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

Avoid contact during pregnancy/ while nursing.

Wash skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing should not be allowed out of the workplace.

Wear protective gloves.

Use personal protective equipment as required.

In case of inadequate ventilation wear respiratory protection.

#### Response

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF exposed or concerned: Get medical advice/ attention.

If skin irritation or rash occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

Take off contaminated clothing and wash before reuse.

Storage

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 ℃/ 122 ℉.

#### Disposal

Dispose of contents/ container to an approved waste disposal plant.

#### Other hazards

no data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixt	TIPE

Component	CASRN	Concentration	
Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer	57029-46-6	>= 30.0 - <= 60.0 %	
Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer	53862-89-8	>= 5.0 - <= 10.0 %	
Diphenylmethane Diisocyanate, isomers and homologues	9016-87-9	>= 10.0 - <= 30.0 %	
Paraffin waxes and Hydrocarbon waxes, chlorinated	63449-39-8	>= 5.0 - <= 10.0 %	
Isobutane	75-28-5	>= 3.0 - <= 7.0 %	
Propane	74-98-6	>= 1.0 - <= 5.0 %	
Methyl ether	115-10-6	>= 1.0 - <= 5.0 %	
4,4' -Methylenediphenyl diisocyanate	101-68-8	>= 7.0 - <= 13.0 %	
N,N'-Dimorpholinodiethylether	6425-39-4	>= 0.5 - <= 5.0 %	
Note Note: CAS 101-68-8 is an MDI isomer that is part of CAS 9016-87-9.			

## 4. FIRST AID MEASURES

#### **Description of first aid measures**

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**General advice:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc). If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

**Skin contact:** Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. An MDI skin decontamination study demonstrated that cleaning very soon after exposure is important, and that a polyglycol-based skin cleanser or corn oil may be more effective than soap and water. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands. Suitable emergency safety shower facility should be available in work area.

**Eye contact:** Immediately flush eyes with water; remove contact lenses, if present, after the first 5 minutes, then continue flushing eyes for at least 15 minutes. Obtain medical attention without delay, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

**Ingestion:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

Notes to physician: Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reactive airways dysfunction syndrome). Repeated excessive exposure may aggravate preexisting lung disease. Maintain adequate ventilation and oxygenation of the patient. May cause respiratory sensitization or asthma-like symptoms. Bronchodilators, expectorants and antitussives may be of help. Treat bronchospasm with inhaled beta2 agonist and oral or parenteral corticosteroids. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Exposure may increase "myocardial irritability". Do not administer sympathomimetic drugs such as epinephrine unless absolutely necessary. If you are sensitized to diisocyanates, consult your physician regarding working with other respiratory irritants or sensitizers. Although cholinesterase depression has been reported with this material, it is not of benefit in determining exposure and need not be considered in the treatment of persons exposed to the material. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

#### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

**Unsuitable extinguishing media:** Do not use direct water stream. Straight or direct water streams may not be effective to extinguish fire.

#### Special hazards arising from the substance or mixture

Hazardous combustion products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Nitrogen oxides. Isocyanates. Hydrogen chloride. Carbon monoxide. Carbon dioxide. Hydrogen cyanide.

**Unusual Fire and Explosion Hazards:** Contains flammable propellant. Aerosol cans exposed to fire can rupture and become flaming projectiles. Propellant release may result in a fireball. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Dense smoke is produced when product burns.

#### Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Water may not be effective in extinguishing fire. Do not use direct water stream. May spread fire. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Use water spray to cod fire-exposed containers and fire-affected zone until fire is out.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

#### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions, protective equipment and emergency procedures: Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Keep personnel out of low areas. Keep personnel out of confined or poorly ventilated areas. Keep upwind of spill. Ventilate area of leak or spill. No smoking in area. For large spills, warn public of downwind explosion hazard. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Vapor explosion hazard. Keep out of sewers. See Section 10 for more specific information. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Refer to section 7, Handling, for additional precautionary measures.

**Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and materials for containment and cleaning up: Contain spilled material if possible.

Ground and bond all containers and handling equipment. Isolate area until gas has dispersed. Use non-sparking tools in cleanup operations. Eliminate all sources of ignition in vicinity of spill or released vapor to avoid fire or explosion. Check area with combustible gas detector before reentering area. Ground and bond all containers and handling equipment. Collect in suitable and properly labeled containers. Absorb with materials such as: Clay. Dirt. Milsorb®. Sand. Sawdust. Vermiculite. See

Section 10 for more specific information. See Section 13, Disposal Considerations, for additional information.

#### 7. HANDLING AND STORAGE

Precautions for safe handling: Keep away from heat, sparks and flame. Avoid contact with eyes. Avoid contact with skin and clothing. Avoid prolonged or repeated contact with skin. Avoid breathing vapor. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Keep out of reach of children. No smoking, open flames or sources of ignition in handling and storage area. Vapors are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. Contents under pressure. Do not puncture or incinerate container. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Do not enter confined spaces unless adequately ventilated. Never use air pressure for transferring product. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

**Conditions for safe storage:** Minimize sources of ignition, such as static build-up, heat, spark or flame. Store in a dry place. See Section 10 for more specific information.

Storage stability

Storage temperature: Shelf life: Use within

49 ℃ (120 °F) 12 Month

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control parameters**

Exposure limits are listed below, if they exist.

Component	Regulation	Type of listing	Value/Notation
Isobutane	ACGIH	STEL	1,000 ppm
Propane	ACGIH		• •
·	OSHA Z-1	TWA	1,800 mg/m3 1,000
			ppm
Methyl ether	US WEEL	TWA	1,000 ppm
4,4' -Methylenediphenyl diisocyanate	ACGIH	TWA	0.005 ppm
	OSHA Z-1	С	0.2 mg/m3 0.02 ppm

#### **Exposure controls**

Engineering controls: Use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations. Provide general and/or local exhaust ventilation control airborne levels below the exposure guidelines. Exhaust systems should be designed to move the air away from the source of vapor/aerosol generation and people working at this point. The odor and irritancy of this material are inadequate to warn of excessive exposure. Lethal concentrations may exist in areas with poor ventilation.

#### Individual protection measures

Eye/face protection: Use safety glasses (with side shields).

Skin protection

**Hand protection:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Chlorinated polyethylene.

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Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Viton. Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

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Other protection: Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will

depend on the task.

Respiratory protection: Atmospheric levels should be maintained below the exposure guideline. When atmospheric levels may exceed the exposure guideline, use an approved airpurifying respirator equipped with an organic vapor sorbent and a particle filter. For situations where the atmospheric levels may exceed the level for which an air-purifying respirator is effective, use a positive-pressure air-supplying respirator (air line or self-contained breathing apparatus). For emergency response or for situations where the atmospheric level is unknown, use an approved positive-pressure self-contained breathing apparatus or positive-pressure air line with auxiliary self-contained air supply. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** 

Physical state Foam
Color Orange
Odor Odorless

Odor Threshold No test data available

pH Not applicable

Melting point/rangeNo test data availableFreezing pointNo test data available

Boiling point (760 mmHg) Not applicable

Flash point closed cup -104 ℃ (-155 °F) Estimated.

**Evaporation Rate (Butyl Acetate** 

= 1)

No test data available

Flammability (solid, gas) Flammable gas.

Lower explosion limitNo test data availableUpper explosion limitNo test data available

Vapor Pressure 1,100 kPa at 55 ℃ (131 °F) Supplier

Relative Vapor Density (air = 1) No test data available
Relative Density (water = 1) 1.06 Calculated.

Water solubility Insoluble

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Partition coefficient: n-

no data available

octanol/water

Auto-ignition temperature No test data available

Decomposition temperature No test data available

Kinematic Viscosity

Explosive properties

Not applicable
Not explosive

Oxidizing properties No

Molecular weight no data available

NOTE: The physical data presented above are typical values and should not be construed as a specification.

#### 10. STABILITY AND REACTIVITY

Reactivity: no data available

**Chemical stability:** Stable under recommended storage conditions. See Storage, Section 7. Unstable at elevated temperatures.

**Possibility of hazardous reactions:** Can occur. Exposure to elevated temperatures can cause product to decompose and generate gas. This can cause pressure build-up and/or rupturing of closed containers. Acids.

Conditions to avoid: Avoid temperatures above 50 ℃

Elevated temperatures can cause container to vent and/or rupture. Exposure to elevated temperatures can cause product to decompose.

Incompatible materials: Avoid contact with: Acids. Alcohols. Amines. Ammonia. Bases. Metal compounds. Strong oxidizers. Products based on diisocyanates like TDI and MDI react with many materials to release heat. The reaction rate increases with temperature as well as with increased contact; these reactions can become violent. Contact is increased by stirring or if the other material acts as a solvent. Products based on diisocyanates such as TDI and MDI are not soluble in water and will sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. Reaction with water will generate carbon dioxide and heat.

**Hazardous decomposition products:** Decomposition products depend upon temperature, air supply and the presence of other materials. Toxic gases are released during decomposition.

#### 11. TOXICOLOGICAL INFORMATION

Toxicological information on this product or its components appear in this section when such data is available.

Acute toxicity

**Acute oral toxicity** 

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Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. Observations in animals include: Gastrointestinal irritation.

As product: Single dose oral LD50 has not been determined.

LD50, Rat, > 2,000 mg/kg Estimated.

#### Acute dermal toxicity

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: The dermal LD50 has not been determined.

LD50, Rabbit, > 2,000 mg/kg Estimated.

#### **Acute inhalation toxicity**

In confined or poorly ventilated areas, vapor can easily accumulate and can cause unconsciousness and death due to displacement of oxygen. Excessive exposure may clause irritation to upper respiratory tract (nose and throat) and lungs. May cause pulmonary edema (fluid in the lungs.) Effects may be delayed. May cause central nervous system depression. Symptoms of excessive exposure may be anesthetic or narcotic effects; dizziness and drowsiness may be observed. Excessive exposure may increase sensitivity to epinephrine and increase myocardial irritability (irregular heartbeats). Decreased lung function has been associated with overexposure to isocyanates.

As product: The LC50 has not been determined.

#### Skin corrosion/irritation

Prolonged contact may cause moderate skin irritation with local redness. Material may stick to skin causing irritation upon removal. May stain skin.

#### Serious eve damage/eve irritation

May cause eye irritation.

May cause slight temporary corneal injury.

#### Sensitization

Skin contact may cause an allergic skin reaction.

Animal studies have shown that skin contact with isocyanates may play a role in respiratory sensitization.

May cause allergic respiratory reaction.

MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized.

Asthma-like symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Occasionally, breathing difficulties may be life threatening.

#### Specific Target Organ Systemic Toxicity (Single Exposure)

May cause respiratory irritation. Route of Exposure: Inhalation

**Specific Target Organ Systemic Toxicity (Repeated Exposure)** 

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Tissue injury in the upper respiratory tract and lungs has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols.

Contains component(s) which have been reported to cause effects on the following organs in animals: kidney

Liver.

#### Carcinogenicity

Lung tumors have been observed in laboratory animals exposed to respirable aerosol droplets of MDI/Polymeric MDI (6 mg/m3) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.

#### **Teratogenicity**

In laboratory animals, MDI/polymeric MDI did not cause birth defects; other fetal effects occurred only at high doses which were toxic to the mother.

#### Reproductive toxicity

Based on information for component(s): May cause harm to breastfed babies.

#### Mutagenicity

In vitro genetic toxicity studies were negative for component(s) tested. Genetic toxicity data on MDI are inconclusive. MDI was weakly positive in some in vitro studies; other in vitro studies were negative. Animal mutagenicity studies were predominantly negative.

#### **Aspiration Hazard**

Based on physical properties, not likely to be an aspiration hazard.

#### **COMPONENTS INFLUENCING TOXICOLOGY:**

#### Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

Acute inhalation toxicity

The LC50 has not been determined.

#### Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

Acute inhalation toxicity

The LC50 has not been determined.

### **Diphenylmethane Diisocyanate, isomers and homologues**

**Acute inhalation toxicity** 

LC50, Rat, 4 Hour, dust/mist, 0.49 mg/l

For similar material(s): 2,4'-Diphenylmethane diisocyanate (CAS 5873-54-1). LC50, Rat, 4 Hour, Aerosol, 0.31 mg/l

For similar material(s): 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8). LC50, Rat, 1 Hour, Aerosol, 2.24 mg/l

#### Paraffin waxes and Hydrocarbon waxes, chlorinated

Acute inhalation toxicity

The LC50 has not been determined.

#### Isobutane

Acute inhalation toxicity

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LC50, Mouse, 1 Hour, 52 mg/l

#### **Propane**

Acute inhalation toxicity

LC50, Rat, male and female, 4 Hour, vapour, > 425000 ppm

#### Methyl ether

Acute inhalation toxicity

LC50, Rat, 4 Hour, gas, 164000 ppm

#### 4,4' -Methylenediphenyl diisocyanate

Acute inhalation toxicity

LC50, Rat, 1 Hour, dust/mist, 2.24 mg/l

#### N,N'-Dimorpholinodiethylether

**Acute inhalation toxicity** 

The LC50 has not been determined.

Carcinogenicity

Component

List

Classification

Paraffin waxes and

IARC

Group 2B: Possibly carcinogenic to

humans

Hydrocarbon waxes, chlorinated

**US NTP** 

Reasonably anticipated to be a human

carcinogen

#### 12. ECOLOGICAL INFORMATION

Ecotoxicological information on this product or its components appear in this section when such data is available.

#### **Toxicity**

#### Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

Acute toxicity to fish

For this family of materials:

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

#### Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

Acute toxicity to fish

Not expected to be acutely toxic to aquatic organisms.

#### Diphenylmethane Diisocyanate, isomers and homologues

Acute toxicity to fish

The measured ecotoxicity is that of the hydrolyzed product, generally under conditions maximizing production of soluble species.

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). Based on information for a similar material:

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LC50, Danio rerio (zebra fish), static test, 96 Hour, > 1,000 mg/l, OECD Test Guideline 203 or Equivalent

#### Acute toxicity to aquatic invertebrates

Based on information for a similar material:

EC50, Daphnia magna (Water flea), static test, 24 Hour, > 1,000 mg/l, OECD Test Guideline 202 or Equivalent

#### Acute toxicity to algae/aquatic plants

Based on information for a similar material:

NOEC, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, 1,640 mg/l, OECD Test Guideline 201 or Equivalent

#### **Toxicity to bacteria**

Based on information for a similar material:

EC50, activated sludge, static test, 3 Hour, Respiration rates., > 100 mg/l

#### Toxicity to soil-dwelling organisms

EC50, Eisenia fetida (earthworms), Based on information for a similar material:, 14 d, > 1,000 mg/kg

#### Toxicity to terrestrial plants

EC50, Avena sativa (oats), Growth inhibition, 1,000 mg/l

EC50, Lactuca sativa (lettuce), Growth inhibition, 1,000 mg/l

#### Paraffin waxes and Hydrocarbon waxes, chlorinated

#### Acute toxicity to fish

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested).

LC50, Oncorhynchus mykiss (rainbow trout), 96 Hour, > 0.1 mg/l

#### Isobutane

#### Acute toxicity to fish

No relevant data found.

#### **Propane**

#### Acute toxicity to fish

No relevant data found.

#### Methyl ether

#### Acute toxicity to fish

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested). LC50, Poecilia reticulata (guppy), semi-static test, 96 Hour, > 4,000 mg/l

#### Acute toxicity to aquatic invertebrates

LC50, Daphnia magna (Water flea), 48 Hour, > 4,000 mg/l, OECD Test Guideline 202 or Equivalent

#### 4,4' -Methylenediphenyl diisocyanate

#### Acute toxicity to fish

The measured ecotoxicity is that of the hydrolyzed product, generally under conditions maximizing production of soluble species.

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Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Based on information for a similar material:

LC50, Danio rerio (zebra fish), static test, 96 Hour, > 1,000 mg/l, OECD Test Guideline 203 or Equivalent

#### Acute toxicity to aquatic invertebrates

Based on information for a similar material:

EC50, Daphnia magna (Water flea), static test, 24 Hour, > 1,000 mg/l, OECD Test Guideline 202 or Equivalent

#### Acute toxicity to algae/aquatic plants

Based on information for a similar material:

NOEC, Desmodesmus subspicatus (green algae), static test, 72 Hour, Growth rate inhibition, 1,640 mg/l, OECD Test Guideline 201 or Equivalent

#### Toxicity to bacteria

Based on information for a similar material:

EC50, activated sludge, static test, 3 Hour, Respiration rates., > 100 mg/l

#### Toxicity to soil-dwelling organisms

EC50, Eisenia fetida (earthworms), Based on information for a similar material:, 14 d, > 1 mg/kg

#### Toxicity to terrestrial plants

EC50, Avena sativa (oats), Growth inhibition, 1,000 mg/l

EC50, Lactuca sativa (lettuce), Growth inhibition, 1,000 mg/l

#### N.N'-Dimorpholinodiethylether

#### Acute toxicity to fish

Material is practically non-toxic to fish on an acute basis (LC50 > 100 mg/L). May increase pH of aquatic systems to > pH 10 which may be toxic to aquatic organisms. LC50, Danio rerio (zebra fish), static test, 96 Hour, > 2,150 mg/l, OECD Test Guideline 203 or Equivalent

#### Acute toxicity to aquatic invertebrates

EC50, Daphnia (water flea), static test, 48 Hour, > 100 mg/l, OECD Test Guideline 202 of Equivalent

#### Acute toxicity to algae/aguatic plants

ErC50. Algae, static test, 72 Hour, > 100 mg/l, OECD Test Guideline 201 or Equivalent

#### Toxicity to bacteria

EC50, Bacteria, static test, 3 Hour, 100 mg/l, activated sludge test (OECD 209)

#### Persistence and degradability

#### Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

Biodegradability: For this family of materials: Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

#### Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

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Biodegradability: Expected to degrade slowly in the environment.

#### Diphenylmethane Diisocyanate, isomers and homologues

**Biodegradability:** In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas which appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates.

10-day Window: Not applicable

**Biodegradation:** 0 % **Exposure time:** 28 d

Method: OECD Test Guideline 302C or Equivalent

#### Paraffin waxes and Hydrocarbon waxes, chlorinated

Biodegradability: Expected to degrade slowly in the environment.

Theoretical Oxygen Demand: 2.89 mg/mg

#### Isobutane

**Biodegradability:** Biodegradation may occur under aerobic conditions (in the presence of oxygen)

Theoretical Oxygen Demand: 3.58 mg/mg

**Photodegradation** 

**Test Type:** Half-life (indirect photolysis)

Sensitizer: OH radicals
Atmospheric half-life: 4.4 d

Method: Estimated.

#### **Propane**

Biodegradability: No relevant data found.

Theoretical Oxygen Demand: 3.64 mg/mg

Photodegradation

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals
Atmospheric half-life: 8.4 d

Method: Estimated.

#### Methyl ether

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails

to pass OECD/EEC tests for ready biodegradability.

10-day Window: Fail **Biodegradation:** 5 % **Exposure time:** 28 d

Method: OECD Test Guideline 301A or Equivalent

Theoretical Oxygen Demand: 2.08 mg/mg

**Photodegradation** 

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals

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Atmospheric half-life: 6.4 d

Method: Estimated.

#### 4,4' -Methylenediphenyl diisocyanate

**Biodegradability:** In the aquatic and terrestrial environment, material reacts with water forming predominantly insoluble polyureas which appear to be stable. In the atmospheric environment, material is expected to have a short tropospheric half-life, based on calculations and by analogy with related diisocyanates.

and by analogy with related disocy 10-day Window: Not applicable

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 302C or Equivalent

#### N,N'-Dimorpholinodiethylether

Biodegradability: Material is expected to biodegrade very slowly (in the environment). Fails

to pass OECD/EEC tests for ready biodegradability.

10-day Window: Fail Biodegradation: 0 - 10 % Exposure time: 28 d

Method: OECD Test Guideline 301A or Equivalent

Theoretical Oxygen Demand: 2.49 mg/mg

**Photodegradation** 

Test Type: Half-life (indirect photolysis)

Sensitizer: OH radicals Atmospheric half-life: 0.03 d

Method: Estimated.

#### Bioaccumulative potential

#### Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

Bioaccumulation: No relevant data found.

#### Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

**Bioaccumulation:** In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

#### <u>Diphenylmethane Diisocyanate, isomers and homologues</u>

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Reacts with water. In the aquatic and terrestrial environment, movement is expected to be limited by reaction with water forming predominantly insoluble polyureas.

Bioconcentration factor (BCF): 92 Cyprinus carpio (Carp) 28 d

#### Paraffin waxes and Hydrocarbon waxes, chlorinated

**Bioaccumulation:** Bioconcentration potential is low (BCF less than 100 or log Pow greater than 7).

Partition coefficient: n-octanol/water(log Pow): 7.4 Estimated.

#### **Isobutane**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 2.76 Measured

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Foam Sealant GUN 24oz HC ES 12ct

**Propane** 

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 2.36 Measured

Methyl ether

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.10 Measured

4,4' -Methylenediphenyl diisocyanate

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Reacts with water. In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

Bioconcentration factor (BCF): 92 Cyprinus carpio (Carp) 28 d

N,N'-Dimorpholinodiethylether

Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Partition coefficient: n-octanol/water(log Pow): 0.5 Estimated.

Mobility in soil

Polymethylenepolyphenylisocyanate, propoxylated glycerin polymer

No relevant data found.

Polymethylenepolyphenyl polyisocyanate, polypropyleneglycol copolymer

In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

Diphenylmethane Diisocyanate, isomers and homologues

In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

Paraffin waxes and Hydrocarbon waxes, chlorinated

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Expected to be relatively immobile in soil (Koc > 5000).

Partition coefficient(Koc): > 5000 Estimated.

**Isobutane** 

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 35 Estimated.

**Propane** 

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 24 - 460 Estimated.

Methyl ether

Potential for mobility in soil is very high (Koc between 0 and 50).

Partition coefficient(Koc): 1.29 - 14 Estimated.

4,4' -Methylenediphenyl diisocyanate

In the aquatic and terrestrial environment, movement is expected to be limited by its reaction with water forming predominantly insoluble polyureas.

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Product name: GREAT STUFF PRO™ Gaps & Cracks Insulating Issue Date: 04/10/2015

Foam Sealant GUN 24oz HC ES 12ct

#### N,N'-Dimorpholinodiethylether

Potential for mobility in soil is low (Koc between 500 and 2000).

Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.

Partition coefficient(Koc): 784 Estimated.

#### 13. DISPOSAL CONSIDERATIONS

Disposal methods: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device.

#### 14. TRANSPORT INFORMATION

DOT

Proper shipping name

Aerosols UN 1950

UN number Class

2.1

Packing group

Classification for SEA transport (IMO-IMDG):

Proper shipping name

**AEROSOLS** 

**UN** number

UN 1950

Class

2.1

Packing group

Marine pollutant
Transport in bulk

Paraffin waxes and Hydrocarbon waxes, chlorinated Consult IMO regulations before transporting ocean bulk

according to Annex I or II

of MARPOL 73/78 and the

**IBC or IGC Code** 

Classification for AIR transport (IATA/ICAO):

Proper shipping name

Aerosols, flammable

**UN number** 

Class

UN 1950

Packing group

2.1

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container

volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

#### 15. REGULATORY INFORMATION

#### **OSHA Hazard Communication Standard**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312

Acute Health Hazard Chronic Health Hazard Fire Hazard

## Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313

This product contains the following substances which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and which are listed in 40 CFR 372.

Components	CASRN
Diphenylmethane Diisocyanate, isomers and homologues	9016-87-9
4,4' -Methylenediphenyl diisocyanate	101-68-8

#### Pennsylvania Worker and Community Right-To-Know Act:

The following chemicals are listed because of the additional requirements of Pennsylvania law:

Components	CASRN
Isobutane	75-28-5
Propane	74-98-6
Methyl ether	115-10-6

#### California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances knownto the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

#### **United States TSCA Inventory (TSCA)**

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

:

Foam Sealant GUN 24oz HC ES 12ct

#### 16. OTHER INFORMATION

#### Revision

Identification Number: 101216112 / A001 / Issue Date: 04/10/2015 / Version: 3.0 Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

#### Legend

USA. ACGIH Threshold Limit Values (TLV)	
Ceiling	
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	
Short-term exposure limit	
8-hour, time-weighted average	
USA. Workplace Environmental Exposure Levels (WEEL)	
	Ceiling USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants Short-term exposure limit 8-hour, time-weighted average

#### **Information Source and References**

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

THE DOW CHEMICAL COMPANY urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.



## SAFETY DATA SHEET

Issuing Date 28-Oct 2014

Revision Date 17-Oct-2014

Revision Number 1

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product SDS Name

Clear Epoxy Resin - Syringe - Part A

J-B Weld FG SKU Part Numbers Covered

50112, 50101, 50132, 50112-F, 50101-F, 50132-F, 80112, 40002

J-B Weld Product Names Covered

ClearWeld™ (all), PlasticWeld™ Syringe, MinuteWeld™ Syringe, Wood Restore™ Liquid Epoxy

J-B Weld Product Type

**Epoxy** 

Recommended use of the chemical and restrictions on use

Recommended Use

General Purpose Adhesive

Uses advised against

No information available

Details of the supplier of the safety data sheet

Supplier Name

J-B WELD COMPANY, LLC

Supplier Address

1130 COMO ST

SULPHUR SPRINGS, TX 75482

USA

**Emergency Telephone Numbers** 

Transportation Emergencies: Chemtrec (24 hour transportation emergency response info):

800-424-9300 or 703-527-3887

Poison/Medical Emergencies: Poison Control Centers (24 hour emergency poison / medical

response info): 800-222-1222

Supplier Email

info@jbweld.com

Supplier Phone Number

903-885-7696



#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1

#### GHS Label elements, including precautionary statements

#### **Emergency Overview**

#### Signal word

#### Warning

#### Hazard Statements

Causes severe skin irritation

May cause an allergic skin reaction

May cause serious eye damage / eye irritation



Appearance Clear

Physical State Gel Liquid

**Odor**Ammoniacal

#### Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

#### Precautionary Statements - Response

Immediately call a doctor/physician or poison control center.

Specific treatment (see supplemental first aid instructions on this label)

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a doctor/physician

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation or rash occurs: Get medical advice/attention



#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

#### Precautionary Statements - Storage

Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### Unknown Toxicity

75% of the mixture consists of ingredient(s) of unknown toxicity

#### Other information

Harmful to aquatic life with long lasting effects

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

#### Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	
Diglycidyl bisphenol A resin	25085-99-8	95	
Oxirane, [[4-(1,1-dimethylethyl)phenoxy]methyl]-	3101-60-8	5	

#### 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

#### After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

#### · After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately remove any clothing soiled by the product. If skin irritation continues, consult a doctor.

#### After eye contact:

Protect unharmed eye.

Rinse opened eye for several minutes under running water. Then consult a doctor. Do not remove contact lenses if worn.



#### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

Nausea

Dizziness

- Hazards Danger of impaired breathing.
- 4.3 Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrame with antihistamine and corticoid preparations.

Monitor circulation.

#### 5. FIRE-FIGHTING MEASURES

- 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
- Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

Additional information Cool endangered receptacles with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use respiratory protective device against the effects of fumes/dust/aerosol.

Remove persons from danger area.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Clean the affected area carefully; suitable cleaners are:

Warm water and cleansing agent

#### 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment. See Section 13 for disposal Information.



#### 7. HANDLING AND STORAGE

#### · 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about fire and explosion protection: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility:

Store away from oxidizing agents.

Store away from foodstuffs.

Do not store together with acids.

- Further information about storage conditions: Store in cool, dry conditions in well sealed receptacles.
- 7.3 Specific end use(s) No further relevant information available.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- · Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.
- 8.2 Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

Use suitable respiratory protective device when aerosol or mist is formed.

· Protection of hands:



Protective gloves



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

Butyl rubber, BR

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

#### · Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### · Eye protection:



Safety glasses

Goggles recommended during refilling

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	16000	
Form: Colour:	Liquid Light yellow	
Odour:	Characteristic	
Odour threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition	WWW.	
Melting point/Melting range:	Undetermined.	
Boiling point/Boiling range:	> 200 °C (> 392 °F)	
Flash point:	> 93,3 °C (> 200 °F)	
Flammability (solid, gaseous):	Not applicable.	
gnition temperature:		
Decomposition temperature:	Not determined.	
Self-igniting:	Product is not selfigniting.	
Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	



· Vapour pressure:	Not determined.	
Density at 20°C:	1,13 g/cm <sup>a</sup>	
- Relative density Vapour density	Not determined Not determined.	
- Evaporation rate	Not determined.	
Solubility in/Miscibility with water:	Not miscible or difficult to mix.	
Partition coefficient (n-octanol/wate	r): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
VOC (% content)	<1%	
Dynamic:	Not determined.	
9.2 Other Information	No further relevant information available.	

#### 10. STABILITY AND REACTIVITY

- 10.1 Reactivity
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

Reacts with oxidizing agents.

Reacts with amines.

Exothermic polymerization.

- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

#### 11. TOXICOLOGY INFORMATION

- 11.1 Information on toxicological effects
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritating effect.
- Sensitization:
  - Sensitization possible through skin contact.

Sensitizing effect through inhalation is possible by prolonged exposure.



#### · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Irritant

#### 12. ECOLOGICAL INFORMATION

- · 12.1 Toxicity
- Aquatic toxicity: The product contains materials that are harmful to the environment.
- 12.2 Persistence and degradability: The product is not easily, but potentially degradable.
- · 12.3 Bioaccumulative potential

Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.

- 12.4 Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects: No further relevant information available.

#### 13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system. Can be burned with household garbage after consulting with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.

#### 14. TRANSPORT INFORMATION

- · 14.1 UN-Number
- DOT, ADR, ADN, IMDG, IATA

Not Regulated

- · 14.2 UN proper shipping name
- · DOT, ADR, ADN, IMDG, IATA

Not Regulated

- 14.3 Transport hazard class(es)
- · DOT, ADR, ADN
- · Class

Not Regulated



· IMDG, IATA		
· Class	Not Regulated	
· 14.4 Packing group		
· DOT, ADR, IMDG, IATA	Not Regulated	
· 14.5 Environmental hazards:		
· Marine pollutant:	Not Regulated	
· Special marking (IATA):	Not applicable.	
14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Ann	ex II of	
MARPOL73/78 and the IBC Code	Not applicable.	
- UN "Model Regulation":		

#### 15. REGULATORY INFORMATION

- · 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)
- · SARA
- Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65 (California):
- · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- Carcinogenic Categories
- EPA (Environmental Protection Agency)

None of the ingredients is listed.



IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- Canada
- Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16. OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### Relevant phrases

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H341: Suspected of causing genetic defects.

H411: Toxic to aquatic life with long lasting effects.

R36/38: Irritating to eyes and skin.

R38: Irritating to skin.

R43: May cause sensitisation by skin contact.

R46: May cause heritable genetic damage. R51: Toxic

to aquatic organisms.

#### Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods DOT: US

Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)



#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet





### SAFETY DATA SHEET

Issuing Date 27-Oct 2014

Revision Date 17-Oct-2014

Revision Number 1

# 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product SDS Name

Clear Epoxy Hardener - Syringe - Part B

J-B Weld FG SKU Part Numbers Covered

50112, 80112, 50112-F

J-B Weld Product Names Covered

ClearWeld™ (all)

J-B Weld Product Type

Epoxy

Recommended use of the chemical and restrictions on use

Recommended Use

General Purpose Adhesive

Uses advised against

No information available

Details of the supplier of the safety data sheet

Supplier Name

J-B WELD COMPANY, LLC

Supplier Address

1130 COMO ST

SULPHUR SPRINGS, TX 75482

USA

**Emergency Telephone Numbers** 

Transportation Emergencies: Chemtrec (24 hour transportation emergency response info):

800-424-9300 or 703-527-3887

Poison/Medical Emergencies: Poison Control Centers (24 hour emergency poison / medical

response info): 800-222-1222

Supplier Email

info@ibweld.com

Supplier Phone Number

903-885-7696

#### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)



Skin corrosion/irritation	Category 1B	
Serious eye damage/eye irritation	Category 1	
Skin sensitization	Category 1	

#### GHS Label elements, including precautionary statements

#### Emergency Overview

#### Signal word

Warning

#### Hazard Statements

Causes severe skin irritation

May cause serious eye damage / eye irritation

May cause an allergic skin reaction



Appearance Pale yellow

Physical State Gel Liquid

Odor Ammoniacal

#### Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

Wear protective gloves

#### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

#### Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Skin

Call a POISON CENTER or doctor/physician if you feel unwell

Wash contaminated clothing before reuse

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower If skin irritation or rash occurs: Get medical advice/attention

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell



Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

## **Unknown Toxicity**

75% of the mixture consists of ingredient(s) of unknown toxicity

## Other information

Harmful to aquatic life with long lasting effects

Repeated or prolonged skin contact may cause allergic reactions with susceptible persons

#### Interactions with Other Chemicals

Use of alcoholic beverages may enhance toxic effects.

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	
2,4,6-Tri(dimethylaminomethyl)phenol	90-72-2	7 - 13	- 1
1-(2-Aminoethyl) piperazine	140-31-8	<5%	
Benzyl alcohol	100-51-6	3 - 5	
Ethylbenzene	100-41-4	<1%	

## 4. FIRST AID MEASURES

### First aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor

in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Keep eye wide open while rinsing. Do not rub affected area. Seek immediate medical attention/advice. Remove contact lenses, if present and easy

to do. Continue rinsing.

Skin Contact Immediate medical attention is required. Wash off immediately with soap and

plenty of water while removing all contaminated clothes and shoes. May cause

an allergic skin reaction.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. If

breathing is difficult, (trained personnel should) give oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct

contact with skin. Use barrier to give mouth-to-mouth resuscitation.



Ingestion

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8). Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing.

## Most important symptoms and effects, both acute and delayed

Effects

Most Important Symptoms and Burning sensation, Coughing and/ or wheezing, Difficulty in breathing, Itching. Rashes, Hives,

## Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically. Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema. may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitization of susceptible persons.

# 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### Unsuitable extinguishing media

CAUTION: Use of water spray when fighting fire may be inefficient.

## Specific Hazards Arising from the Chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. Product is or contains a sensitizer. May cause sensitization by skin contact.

Uniform Fire Code

Combustible Liquid: III-B Sensitizer: Liquid

#### Hazardous Combustion Products

Carbon oxides.

#### **Explosion Data**

Sensitivity to Mechanical Impact No. Sensitivity

to Static Discharge No.

## Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.



# 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

Personal Precautions

Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists.

Avoid generation of dust.

Refer to protective measures listed in Sections 7 and 8.

Other Information

**Environmental Precautions** 

**Environmental Precautions** 

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

Methods and material for containment and cleaning up

Methods for Containment

Prevent further leakage or spillage if safe to do so.

Methods for cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Use only with adequate ventilation and in closed systems. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage

Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

Incompatible Products

Acids. Bases. Oxidizing agent.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

## Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethylbenzene 100-41-4	TWA: 20 ppm	TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 435 mg/m <sup>3</sup> (vacated) STEL: 125 ppm (vacated) STEL: 545 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 100 ppm TWA: 435 mg/m <sup>3</sup> STEI 125 ppm STEL: 545 mg/m <sup>3</sup>

Other Exposure Guidelines

See section 15 for national exposure control parameters

## Appropriate engineering controls

**Engineering Measures** 

Showers

Eyewash stations



Ventilation systems

#### Individual protection measures, such as personal protective equipment

Eye/Face Protection Tight sealing safety goggles. Face protection shield.

Skin and Body Protection

Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant

apron. Impervious gloves.

Respiratory Protection No protective equipment is needed under normal use conditions, if exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink

or smoke when using this product. Take off contaminated clothing and wash before reuse. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all contaminated protective equipment before re-use.

None known

None known

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Gel Liquid

Appearance Pale yellow Odor Ammoniacal

Color No information available Odor Threshold No information available

Property Values Remarks/ Method UNKNOWN None known

 Melting / freezing point
 No data available
 None known

 Boiling point / boiling range
 100 ℃ / 212 ℉
 None known

 Flash Point
 140 ℃ / 284 F
 None known

 Evaporation Rate
 No data available
 None known

 Flammability (solid, gas)
 No data available
 None known

Flammability Limit in Air
Upper flammability limit No data available

Vapor pressure No data available

No data available

Vapor density

No data available

None known

Partition coefficient: n-octanol/waterNo data available

None known

None known

Partition coefficient: n-octanol/waterNo data available

Autoignition temperature

No data available

None known

Dynamic viscosity 400

Explosive properties No data available
Oxidizing Properties No data available

Other Information

Softening Point No data available

VOC Content (%) <1%

Particle Size No data available

Particle Size Distribution



# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

#### Chemical stability

Stable under recommended storage conditions.

## Possibility of Hazardous Reactions

None under normal processing.

#### Hazardous Polymerization

Hazardous polymerization does not occur.

## Conditions to avoid

Exposure to air or moisture over prolonged periods. Excessive heat.

#### Incompatible materials

Acids. Bases. Oxidizing agent.

## **Hazardous Decomposition Products**

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

#### Product Information

Inhalation

Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract. Harmful by inhalation.

Eye Contact

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage including blindness. Causes serious eye damage. May cause irreversible damage to eyes.

Skin Contact

Specific test data for the substance or mixture is not available. Corrosive. (based on components), Causes burns. May be absorbed through the skin in harmful amounts.

Harmful in contact with skin.

Ingestion

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be harmful if swallowed.

## Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50



#### Clear Epoxy Hardener - Syringe - Part B

2,4,6- Tri(dimethylaminomethyl)phen of 90-72-2	= 1000 mg/kg ( Rat )	= 1280 mg/kg ( Rat )	8
1-(2-Aminoethyl) piperazine 140-31-8	= 2140 mg/kg ( Rat )	= 880 μL/kg ( Rabbit )	
Benzyl alcohol 100- 51-6	= 1230 mg/kg ( Rat )	= 2 g/kg (Rabbit)	= 8.8 mg/L ( Rat ) 4 h
Ethylbenzene 100- 41-4	= 3500 mg/kg ( Rat )	= 15354 mg/kg ( Rabbit )	= 17.2 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms Erythema (skin redness). Burning, May cause blindness. Coughing and/ of wheezing.

Itching, Rashes, Hives.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause sensitization of susceptible persons. May cause sensitization by skin

contact. May cause sensitization by inhalation.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethylbenzene 100- 41-4	A3	Group 2B		×

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 2B · Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity

Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by

jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Contains a known or

suspected carcinogen.

Target Organ Effects Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Central Nervous System (CNS).

Aspiration Hazard No information available.

#### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

728.00 mg/kg

ATEmix (dermal)

1,140.00 mg/kg (ATE)

ATEmix (inhalation-gas)

18,750.00 ppm (4 hr)

ATEmix (inhalation-dust/mist)

6.20 mg/l

ATEmix (inhalation-vapor)

46.00 ATEmix



#### Revision Date 17-Oct-2014

# 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
1-(2-Aminoethyl) piperazine 140-31-8	72h EC50: = 495 mg/L (Pseudokirchneriella subcapitata)	96h LC50: > 1000 mg/L (Poecilia reticulata) 96h LC50: >= 100 mg/L (Oncorhynchus mykiss) 96h LC50: 1950 - 2460 mg/L (Pimephales promelas)	EC50 > 10000 mg/L 17 h	48h EC50: = 32 mg/L
Benzyl alcohol 100- 51-6	3h EC50: = 35 mg/L (Anabaena variabilis)	96h LC50: = 10 mg/L (Lepomis macrochirus) 96h LC50: = 460 mg/L (Pimephales promelas)	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	48h EC50: = 23 mg/L
Ethylbenzene 100- 41-4	72h EC50: = 4.6 mg/L (Pseudokirchneriella subcapitata) 96h EC50: > 438 mg/L (Pseudokirchneriella subcapitata) 72h EC50: 2.6 - 11.3 mg/L (Pseudokirchneriella subcapitata) 96h EC50: 1.7 - 7.6 mg/L (Pseudokirchneriella subcapitata)	96h LC50: 11.0 - 18.0 mg/L (Oncorhynchus mykiss) 96h LC50: = 4.2 mg/L (Oncorhynchus mykiss) 96h LC50: 7.55 - 11 mg/L (Pimephales promelas) 96h LC50: = 32 mg/L (Lepomis macrochirus) 96h LC50: 9.1 - 15.6 mg/L (Pimephales promelas) 96h LC50: = 9.6 mg/L (Poecilia reticulata)	EC50 = 9.68 mg/L 30 min EC50 = 96 mg/L 24 h	48h EC50: 1.8 - 2.4 mg/L

# Persistence and Degradability

No information available.

#### Bioaccumulation

No information available

Chemical Name	Log Pow
1-(2-Aminoethyl) piperazine 140- 31-8	-1.48
Benzyl alcohol 100- 51-6	1:1
Ethylbenzene 100- 41-4	3.118

#### Other adverse effects

No information available.

# 13. DISPOSAL CONSIDERATIONS

## Waste treatment methods

## Disposal methods

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

# Contaminated Packaging

Dispose of contents/containers in accordance with local regulations.

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
Ethylbenzene 100- 41-4		Included in waste stream: F039		



California Hazardous Waste Codes 331

Chemical Name	California Hazardous Waste	
Ethylbenzene 100-41-4	Toxic Ignitable	

# 14. TRANSPORT INFORMATION

DOT NOT REGULATED

Proper Shipping Name NON REGULATED

Hazard Class N/A

TDG Not regulated

MEX Not regulated

ICAO Not regulated
Not regulated

Proper Shipping Name NON REGULATED

Hazard Class N/A

IMDG/IMO Not regulated

Hazard Class N/A

RID Not regulated

ADR Not regulated
Not regulated

ADN

## 15. REGULATORY INFORMATION

# International Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

# US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Ethylbenzene - 100-41-4	100-41-4	1-5	0.1

#### SARA 311/312 Hazard Categories

Acute Health Hazard Chronic Health Hazard	Yes Yes
Fire Hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No



# CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ethylbenzene 100- 41-4	1000 lb	×	×	×

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Ethylberizene 100- 41-4	1000 lb		RQ 1000 lb final RQ RQ 454 kg final RQ

# **US State Regulations**

# California Proposition 65

This product contains the following Proposition 65 chemicals.

Chemical Name	California Proposition 65
Ethylbenzene - 100-41-4	Carcinogen

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
1-(2-Aminoethyl) piperazine 140- 31-8	×	×	×		
Benzyl alcohol 100- 51-6		×	×		
Ethylbenzene 100- 41-4	×	х	×	×	×

## International Regulations

# Mexico National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Ethylbenzene 100-41-4 ( 1 - 5 )		Mexico: TWA 100 ppm Mexico: TWA 435 mg/m <sup>3</sup>
		Mexico: STEL 125 ppm Mexico: STEL 545 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

#### Canada

#### WHMIS Hazard Class

D2A - Very toxic materials D2B - Toxic materials





## 16. OTHER INFORMATION

NFPA Health Hazards 3

Flammability 1

Instability 0

Physical and Chemical Hazards -

HMIS

Health Hazards 3 \*

Flammability 1

Physical Hazard 0

Personal Protection

<

Chronic Hazard Star Legend \* = Chronic Health Hazard

Prepared By

J-B Weld Company

Revision Date

17-Oct-2014

Revision Note

No information available

# Notice to reader

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End of Safety Data Sheet





Fire Protection Products, Inc. 3198 Lionshead Avenue Carlsbad, CA 92010 Phone: (760) 599-1168 Fax: (800) 344-3775

# SAFETY DATA SHEET

Last Updated: 07-20-2015

Section 1		I ASSESSED	IC ENTI	ICATION
	P	ipeFit®		
PipeFit Pint BIC PipeFit Qt. Flat top PipeFit Qt. BIC		PipeFit 5 gal PipeFit 55 gal		
Manufacturer Information Fire Protection Products, Inc. 3198 Lionshead Avenue Carlsbad, CA 92010 Phone: (760) 599-1168 Fax: 1-800-344-3775			Emergency Contact CHEMTREC 1300 Wilson Boulevard Arlington, VA 22209-2380 Phone: (800)424-9300 International: +1 (703) 527-3	887
Product Use	Pipe thread se	alant		
Section 2		DESCRIPTION OF THE	HAZARDS IL ENTI	HEATTON
Hazard Classification	Non-hazardous			
Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 3, H412	Warning			
Hazard Statements	Causes eye irritation May cause skin irritation May cause respiratory irritation			
Precautionary Statements	Avoid contact with skin and eyes. Do not breathe fumes. Always wash hand immediately after handling this product, and once again before leaving the workplace.			
Prevention	Avoid contact with skin and eyes. Wear suitable gloves.  Do not eat, drink, or smoke when using this product.			

Response		IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs; get medical advice/attention.  IF INHALED: Remove person to fresh air and keep comfortable during breathing.  IF IN EYES: Immediately flush eyes with plenty of water. Irrigate copiously with clean, fresh water for at least 15 minutes, holding the eyelids apart. Obtain medical attention if pain, blinking or redness persists.  Never give anything by mouth to an unconscious person. Get medical attention/advice if you feel unwell.  Storage conditions: Keep container closed when not in use.  Incompatible products: Strong acids. Strong bases. Strong oxidizers. Solvents. Heat and ignition sources: Keep away from heat, sparks and flame.  Prohibitions on mixed storage: Incompatible materials.  Storage area: Store in dry, cool, well-ventilated area.		
Section 3			COMPOSITION/INFORMATION ON INGREDIENTS	
Compon	ent Name	CAS Number	0 - 0.22	
Phosphoro	dithioic acid, kyl esters, zinc sal	68649-42-3	0 - 0.22	
Section 4	yr esters, zinc sar		FIRST AID MEASURES	
Inhalation	May cause i	rritation, coughing, shortness of breath.		
Skin	Wash with p	Wash with plenty of soap and water. If skin irritation occurs; get medical advice/attention.		
Eye	least 15 min	mmediately flush eyes with plenty of water. Irrigate copiously with clean, fresh water for at east 15 minutes, holding the eyelids apart. Obtain medical attention if pain, blinking or edness persists.		
Ingestion	Get medical	medical advice/attention if you feel unwell.		
Symptoms	Inhalation n	nay cause: irritation, coughing, shortness of l	breath.	
Medical Care		omatically. Never give anything by mouth to dvice if you feel unwell.	- 26	
Section 5		Company of the second	FIRE FIGHTING MEASURES	
Flash Point		150 °C		
Extinguishing Me	dia	Carbon dioxide. Dry chemical. Foam. Water Spray.		
Special Firefighting Procedures/Equipment		Firefighting instructions: Cool adjacent structures and containers with water spray to protect and prevent ignition.  Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus. Remove all unprotected personnel.		
Unusual Fire and Explosion		Fire hazard: Burning produces irritating, to Explosion hazard: Product is not explosive. Reactivity: No dangerous reactions known.	xic and noxious fumes.	

Additional Information	No known unsuit	No known unsuitable extinguishing media.					
Section 6	THE STATE OF THE	A	CCIDENTAL RELEASE MEASURES				
Personal Precautions	Emergency Resp	General Measures: Avoid contact with skin and eyes, Wear suitable gloves.  Emergency Responders: Wear suitable gloves. Evacuate unnecessary personn Stop leak if safe to do so. Ventilate area.					
Environmental Precautions	Prevent entry to	Prevent entry to sewers and public waters.					
Methods and Materials Use Containment	TOIL	Do not allow minor leaks or spills to accumulate on walking surfaces. Contain and collect as any solid.					
Methods for Clean Up	Section 13: dispo	osal information. Section 7: safe h	andling.				
Section 7			HANDLING AND STORAGE				
Handling	immediately afte workplace. Do n	ith skin and eyes. Do not breathe er handling this product, and once ot eat, drink or smoke when using	e again before leaving the g this product.				
Storage	Incompatible pro Heat and ignition Prohibitions on r	Storage conditions: Keep container closed when not in use. Incompatible products: Strong acids. Strong bases. Strong oxidizers. Solvents. Heat and ignition sources: Keep away from heat, sparks and flame. Prohibitions on mixed storage: Incompatible materials. Storage area: Store in dry, cool, well-ventilated area.					
Section 8	ALCOHOLD DE LA CONTRACTOR DEL CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR DE LA CONTRACTOR		TROLS/ PERSONAL PROTECTION				
Exposure Guidelines							
Components	CAS-No.	Type	Value				
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	68649-42-3	ACGIH: not applicable OSHA: not applicable	No established limit.				
Engineering Controls	Avoid creating m	ist or spray. Ensure good ventilat	ion of the work station.				
	Eve protection: 1	None under normal use.					
Personal Protection	and the second s	Hand protection: In case of repeated or prolonged contact wear gloves.					
		Respiratory Protection: None under normal use.					
General Measures	Keep out of reach	h of children. Do not eat, drink or	smoke when using this product.				
Section 9		PHYSIC	AL AND CHEMICAL PROPERTIES				
Appearance: White paste		Evaporation Rate: No data	available				
Odor: Mild		Flammability: No data available					
Odor Threshold: No data ava	ilable	Upper/lower Flammability and/or Explosive Limits: No data available					
pH: No data available		Vapor Pressure: No data available					
Melting Point/Freezing Poin	t: No data available	Vapor Density: No data ava	ilable				
Boiling Point and Boiling Ran	nge: 177 °C	Relative Density: 1.48					

Flash Point: 150 °C	Solubility: Insoluble in water
Partition Coefficient: No data available	Auto-Ignition Temperature: No data available
Decomposition Temperature: No data available	Viscosity: No data available
VOC content: 0 g/L	

Property Additional Control of the C	
Section 10	STABILITY AND REACTIVITY
Reactivity	No dangerous reactions known.
Chemical Stability	Stable under normal conditions.
Possibility of Hazardous Reactions	Hazardous polymerization will not occur.
Conditions to Avoid	Heat and open flame.
Incompatible Materials	Strong acids. Strong bases. Strong oxidizers. Solvents.
Hazardous Decomposition	Carbon oxides (CO, CO2). Hydrogen fluoride. Perfluoro- carbon olefins.
Section 11	TOXICOLOGICAL INFORMATION
Ingestion Toxicity	0.22 percent of the mixture consists of ingredient(s) of unknown acute toxicity.  LD50 oral rat: 26100 mg/kg  ATE CLP (oral) 26100.000 mg/kg bodyweight
Skin Toxicity	Not Classified.
Eye Irritation	Not Classified.
Respiratory Irritation	Not Classified.
Chronic Toxicity	Not Classified.
Carcinogenicity	Not Classified.
Other	Potential adverse human health effects and symptoms:  AFTER INHALATION: may cause irritation, coughing, shortness of breath.  LIKELY ROUTES OF EXPOSURE: ingestion, skin and eye contact.
Section 12	ECOLOGICAL INFORMATION
Ecotoxicity	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) LC50 fish 1 10 (10 - 35) mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction) EC50 Daphnia 1 1 (1 - 1.5) mg/l OECD GDL 202 (water accomodated fraction) NOEC (acute) 10 mg/l Pimephales promelas OECD GDL 203 (water accomodated fraction) NOEC chronic crustacea < 1 mg/l
Degradability	Not readily biodegradable.

Other	N/A	
Section 13	DISPOSAL CONSIDE	RATIONS
Waste Disposal Method	Sewage disposal recommendations: Do not dispose of waste into sewer.  Waste disposal recommendations: Dispose in a safe manner in accordance local/national regulations.  Ecology - waste materials: Avoid release to the environment.	with
Section 14	TRANSPORT INFO	RMATION
UN Number	Not applicable	
UN Proper Shipping Name	Not applicable	
Transport Hazard Class	In accordance with DOT and TDG. Not considered a dangerous good for tran regulations.	sport
Canadian Transportation of Dangerous Goods	Listed on the Canadian DSL (Domestic Substances List) inventory.	
Marine Pollutants	Do not dispose of waste into sewer.	
Special Precautions	No additional information available.	
Section 15	REGULATORY INFO	RMATION
TSCA Status	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory	
	Exposure under fire conditions would offer no hazard beyond that of ordina combustible materials.	ry
SARA 311/312 Hazards	Must be preheated before ignition can occur.	
	Normally stable, even under fire exposure conditions, and not reactive with	water.
California Prop 65	Not applicable.	
DSL Status (Canada)	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) Listed on the Canadian DSL (Domestic Substances List) inventory.	
Section 16	OTHER INFO	RMATION
Additional Information	There are no Red List materials included in this product.	
Prepared By	Human Resource Department	
Revised Date	7/20/15	
Disclaimer	Although the information and recommendations set forth herein are present good faith and believed to be correct as of the date hereof, Fire Protection Finc. makes no representations as to the completeness or accuracy thereof. If Protection Products, Inc. makes no warranty whatsoever, expressed or implementantability or fitness for the particular purpose since the conditions of beyond our control. Fire Protection Products, Inc. assumes no responsibility to recipient or to third persons for any damage to any property and recipient	Products, Fire lied, of use are for injury

