

# **CMS Commercial Mechanical Services**

## Shop Drawing Submittals

SDS Sheets

HVAC 2024

PHONE

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2721 Markham Road, Unit 10

416-609-9992

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# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 03/10/2016

Revision: 03/10/2016

## 1 Identification

- **Product identifier**
- **Trade name:** Proseal  
Proseal Spray  
Fiberseal
- **Article number:** No other identifiers
- **Recommended use and restriction on use**
- **Recommended use:** Sealant
- **Restrictions on use:** No relevant information available.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Ductmate Industries, Inc.  
210 5th St.  
Charleroi, PA 15022  
Phone: 800-245-3188
- **Emergency telephone number:**  
ChemTel Inc.  
+1 (800)255-3924, +1 (813)248-0585



## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Not regulated.
- **Hazard pictograms:** Not regulated.
- **Signal word:** Not regulated.
- **Hazard-determining components of labeling:** Not applicable.
- **Hazard statements:** Not regulated.
- **Classification system**
- **NFPA ratings (scale 0 - 4)**  

 The NFPA hazard diamond shows a red top triangle with the number 1, a blue bottom-left triangle with the number 0, and a yellow bottom-right triangle with the number 0.
 

Health = 0  
Fire = 1  
Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**  

 Three rectangular labels are shown: 'HEALTH' with a blue background and a white box containing the number 0, 'FIRE' with a red background and a white box containing the number 1, and 'REACTIVITY' with a yellow background and a white box containing the number 0.
 

Health = 0  
Fire = 1  
Reactivity = 0
- **Other hazards** There are no other hazards not otherwise classified that have been identified.

(Cont'd. on page 2)

# Safety Data Sheet

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(Cont'd. of page 1)

## 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

#### · Components:

25212-88-8	Methacrylic acid copolymer dispersion ⚠ Acute Tox. 4, H332	< 1.5%
107-21-1	ethylene glycol ⚠ STOT RE 2, H373 ⚠ Acute Tox. 4, H302	< 1.5%
9004-34-6	Cellulose	< 1.5%
68412-54-4	Nonylphenol, branched, ethoxylated ⚠ Repr. 2, H361	< 1.0%
111-42-2	2,2'-iminodiethanol ⚠ Carc. 2, H351; STOT RE 2, H373 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	< 0.2%

#### · Additional information:

For the wording of the listed Hazard Statements refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

## 4 First-aid measures

### · Description of first aid measures

#### · After inhalation:

Respiration of particulates is unlikely during normal usage.

Supply fresh air and to be sure to call for a doctor.

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

#### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### · After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

#### · After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

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

Headache

Dizziness

Nausea

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

Treat skin and mucous membrane with antihistamine and corticoid preparations.

(Cont'd. on page 3)

# Safety Data Sheet

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(Cont'd. of page 2)

## 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **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

- **Personal precautions, protective equipment and emergency procedures:**  
Ensure adequate ventilation.
- **Environmental precautions:**  
Do not allow to enter sewers/ surface or ground water.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Methods and material for containment and cleaning up:**  
Allow to solidify. Pick up mechanically.  
Clean the affected area carefully; suitable cleaners are:  
Organic solvent
- **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

- **Handling**
- **Precautions for safe handling:**  
Keep away from heat and direct sunlight.  
Store in cool, dry place in tightly closed receptacles.  
Use only in well ventilated areas.  
Avoid contact with the eyes and skin.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:**  
Store away from oxidizing agents.

(Cont'd. on page 4)

# Safety Data Sheet

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Revision: 03/10/2016

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**Fiberseal**

(Cont'd. of page 3)

Store away from foodstuffs.

· **Further information about storage conditions:** Protect from frost.· **Specific end use(s):** No relevant information available.

## 8 Exposure controls/personal protection

### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

##### 107-21-1 ethylene glycol

TLV (USA)	Short-term value: NIC-127* mg/m <sup>3</sup> Long-term value: NIC-10** NIC-63.5* mg/m <sup>3</sup> , NIC-25* ppm Ceiling limit value: (100) mg/m <sup>3</sup> (H); *inh. fraction + vapor, P:**inh. fraction, H
EL (Canada)	Short-term value: 20** mg/m <sup>3</sup> Long-term value: 10** mg/m <sup>3</sup> Ceiling limit value: 100* mg/m <sup>3</sup> , 50*** ppm *Aerosol; **Particulate; ***Vapour
EV (Canada)	Ceiling limit value: 100 mg/m <sup>3</sup>
LMPE (Mexico)	Ceiling limit value: 100* mg/m <sup>3</sup> A4, *solo aerosol

##### 9004-34-6 Cellulose

PEL (USA)	Long-term value: 15* 5** mg/m <sup>3</sup> *total dust **respirable fraction
REL (USA)	Long-term value: 10* 5** mg/m <sup>3</sup> *total dust **respirable fraction
TLV (USA)	Long-term value: 10 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust, **respirable fraction
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> paper fibre, total dust
LMPE (Mexico)	Long-term value: 10 mg/m <sup>3</sup>

##### 111-42-2 2,2'-iminodiethanol

REL (USA)	Long-term value: 15 mg/m <sup>3</sup> , 3 ppm
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> , 0.2* ppm Skin; *inhalable fraction and vapor
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> Skin, IARC 2B
EV (Canada)	Long-term value: 2 mg/m <sup>3</sup>
LMPE (Mexico)	Long-term value: 2 mg/m <sup>3</sup> A3, PIEL

(Cont'd. on page 5)

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**Trade name: Proseal**  
**Proseal Spray**  
**Fiberseal**

(Cont'd. of page 4)

- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Avoid close or long term contact with the skin.
  - Avoid contact with the eyes.
  - Keep away from foodstuffs, beverages and feed.
  - Do not inhale gases / fumes / aerosols.
  - Pregnant women should strictly avoid inhalation or ingestion.
  - Immediately remove all soiled and contaminated clothing.
  - Wash hands before breaks and at the end of work.
- **Engineering controls:** No relevant information available.
- **Breathing equipment:**
  - Not necessary if room is well-ventilated.
  - 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.

- **Material of gloves** Butyl rubber, BR
- **Eye protection:**



Safety glasses

- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

- **Appearance:**
  - Form:** Pasty
  - Color:** Gray
- **Odor:** Mild
- **Odor threshold:** Not determined.
- **pH-value:** 9.5
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** 100 °C (212 °F)
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not determined.

(Cont'd. on page 6)

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Revision: 03/10/2016

**Trade name:** Proseal  
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(Cont'd. of page 5)

· <b>Auto-ignition temperature:</b>	Not determined.
· <b>Decomposition temperature:</b>	Not determined.
· <b>Auto igniting:</b>	Product is not self-igniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Explosion limits</b> <b>Lower:</b> <b>Upper:</b>	Not determined. Not determined.
· <b>Vapor pressure:</b>	Not applicable.
· <b>Density:</b>	1.32 g/cm <sup>3</sup> (11.015 lbs/gal)
· <b>Relative density:</b>	Not determined.
· <b>Vapor density:</b>	Not applicable.
· <b>Evaporation rate:</b>	< 1 (BAC = 1)
· <b>Solubility in / Miscibility with Water:</b>	Insoluble.
· <b>Partition coefficient (n-octanol/water):</b>	Not determined.
· <b>Viscosity</b> <b>Dynamic:</b> <b>Kinematic:</b>	Not applicable. Not applicable.
· <b>Other information</b>	No relevant information available.

## 10 Stability and reactivity

- **Reactivity:** No relevant information available.
- **Chemical stability:**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions:**  
Reacts with peroxides and other radical forming substances.  
Reacts with strong oxidizing agents.
- **Conditions to avoid:** No relevant information available.
- **Incompatible materials:** No relevant information available.
- **Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Nitrogen oxides (NOx)  
Hydrocarbons

(Cont'd. on page 7)

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Revision: 03/10/2016

**Trade name: Proseal**  
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(Cont'd. of page 6)

## 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

**25212-88-8 Methacrylic acid copolymer dispersion**

Inhalative	LC50/4h	1.03 mg/l (rat)
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**107-21-1 ethylene glycol**

Dermal	LD50	9530 mg/kg (rabbit)
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**68412-54-4 Nonylphenol, branched, ethoxylated**

Oral	LD50	3550 mg/kg (rat)
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- **Primary irritant effect:**

- **On the skin:** Slight irritant effect on skin and mucous membranes.

- **On the eye:** Slight irritant effect on eyes.

- **Sensitization:** Sensitization possible through skin contact.

- **Subacute to chronic toxicity:** Suspected of damaging fertility or the unborn child.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer):**

14808-60-7	Quartz (SiO <sub>2</sub> )	1
111-42-2	2,2'-iminodiethanol	3
102-71-6	2,2',2''-nitrilotriethanol	3

- **NTP (National Toxicology Program):**

14808-60-7	quartz	K
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- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

- **Probable route(s) of exposure:**

Eye contact.

Skin contact.

- **Acute effects (acute toxicity, irritation and corrosivity):** From product as supplied: None.

- **Repeated dose toxicity:** From product as supplied: None.

- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

- **Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

- **Carcinogenicity:** Based on available data, the classification criteria are not met.

- **Reproductive toxicity:** Based on available data, the classification criteria are not met.

- **STOT-single exposure:** Based on available data, the classification criteria are not met.

- **STOT-repeated exposure:** Based on available data, the classification criteria are not met.

- **Aspiration hazard:** Based on available data, the classification criteria are not met.

(Cont'd. on page 8)



# Safety Data Sheet

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Revision: 03/10/2016

**Trade name: Proseal**  
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(Cont'd. of page 7)

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity** The product contains materials that are harmful to the environment.
- **Persistence and degradability** The product is partially biodegradable. Significant residuals remain.
- **Bioaccumulative potential:** No relevant information available.
- **Mobility in soil:** No relevant information available.
- **Ecotoxic effects:**
- **Remark:** Due to mechanical actions of the product (e.g. agglutinations), damages may occur.
- **Additional ecological information**
- **General notes:**  
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
 Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.
- **Other adverse effects:** No relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
 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.  
 Can be disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.  
 The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

- |  |                       |
|--|-----------------------|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>                                   | <p>Not regulated.</p> |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· DOT, ADR, IMDG, IATA</li> </ul>                     | <p>Not regulated.</p> |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· DOT, ADR, IMDG, IATA</li> <li>· Class</li> </ul> | <p>Not regulated.</p> |

(Cont'd. on page 9)

# Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date: 03/10/2016

Revision: 03/10/2016

**Trade name: Proseal**  
**Proseal Spray**  
**Fiberseal**

(Cont'd. of page 8)

- |  |                 |
|--|-----------------|
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>                    | Not regulated.  |
| <ul style="list-style-type: none"> <li>· <b>Environmental hazards</b></li> <li>· <b>Marine pollutant:</b></li> </ul>               | No              |
| <ul style="list-style-type: none"> <li>· <b>Special precautions for user</b></li> </ul>  | Not applicable. |
| <ul style="list-style-type: none"> <li>· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b></li> </ul> | Not applicable. |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **United States (USA)**
- **SARA**

<b>Section 302 (extremely hazardous substances):</b>
--

None of the ingredients are listed.
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<b>Section 304 (emergency release notification):</b>
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None of the ingredients are listed.
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<b>Sections 311/312 (hazardous chemical threshold planning quantity in pounds):</b>
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None of the ingredients are listed.
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<b>Section 355 (extremely hazardous substances):</b>
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None of the ingredients are listed.
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<b>Section 313 (Specific toxic chemical listings):</b>
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107-21-1	ethylene glycol
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<b>TSCA (Toxic Substances Control Act)</b>
--

All ingredients are listed.
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<b>Proposition 65 (California)</b>
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<b>Chemicals known to cause cancer:</b>
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Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.  
 Present in trace quantities.

14808-60-7	quartz
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111-42-2	2,2'-iminodiethanol
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<b>Chemicals known to cause reproductive toxicity for females:</b>
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None of the ingredients are listed.
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<b>Chemicals known to cause reproductive toxicity for males:</b>
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None of the ingredients are listed.
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(Cont'd. on page 10)

# Safety Data Sheet

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Revision: 03/10/2016

**Trade name: Proseal**  
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**Fiberseal**

(Cont'd. of page 9)

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency):**

None of the ingredients are listed.

· **IARC (International Agency for Research on Cancer):**

14808-60-7	quartz	1
102-71-6	2,2',2''-nitrilotriethanol	3
111-42-2	2,2'-iminodiethanol	2B

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

14808-60-7 quartz

· **Canadian substance listings**

· **Canadian Domestic Substances List (DSL):**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%):**

None of the ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 1%):**

107-21-1 ethylene glycol

## 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.

· **Date of preparation / last revision** 03/10/2016 / -

· **Abbreviations and acronyms:**

ADR: 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  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
 Carc. 2: Carcinogenicity, Hazard Category 2  
 Repr. 2: Reproductive toxicity, Hazard Category 2  
 STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

(Cont'd. on page 11)

# Safety Data Sheet

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Revision: 03/10/2016

**Trade name: Proseal**  
**Proseal Spray**  
**Fiberseal**

(Cont'd. of page 10)

**Sources**

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

SDS Prepared by:

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# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Sealant
- **1.3 Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**  
Ductmate Industries, Inc.  
210 5th St.  
Charleroi, PA 15022  
Phone: 800-990-8459
- **1.4 Emergency telephone number:**  
ChemTel Inc.  
(800)255-3924, +1 (813)248-0585



## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Skin Sens. 1 H317 May cause an allergic skin reaction.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Sensitising

R43: May cause sensitisation by skin contact.

- **Information concerning particular hazards for human and environment:**  
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**  
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.  
The classification is in accordance with the latest editions of international substances lists, and is supplemented by information from technical literature and by information provided by the company.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

(Contd. on page 2)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit

(Contd. of page 1)

- **Signal word** Warning

- **Hazard-determining components of labelling:**

2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol  
1,2-benzisothiazol-3(2H)-one

- **Hazard statements**

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P280 Wear protective gloves / eye protection.  
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Hazard description:**

- **WHMIS-symbols:**

D2B - Toxic material causing other toxic effects



- **NFPA ratings (scale 0 - 4)**



Health = 2  
Fire = 1  
Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**



Health = \*2  
Fire = 1  
Reactivity = 0

- **HMIS Long Term Health Hazard Substances**

13463-67-7	titanium dioxide
68412-54-4	Nonylphenoxy poly (ethyleneoxy 9)ethanol, branched
14808-60-7	quartz

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

(Contd. on page 3)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit

(Contd. of page 2)

**· Dangerous components:**

CAS: 14807-96-6 EINECS: 238-877-9	Talc substance with a Community workplace exposure limit	≤ 13%
CAS: 25212-88-8	Methacrylic acid copolymer dispersion ☒ Xn R20 R53 ⚠ Acute Tox. 4, H332 Aquatic Chronic 4, H413	≤ 2,5%
CAS: 107-21-1 EINECS: 203-473-3 Index number: 603-027-00-1	ethanediol ☒ Xn R22 ⚠ Acute Tox. 4, H302	≤ 2,5%
CAS: 13463-67-7 EINECS: 236-675-5	titanium dioxide substance with a Community workplace exposure limit	≤ 2%
CAS: 68412-54-4 NLP: 500-209-1	Nonylphenoxy poly (ethyleneoxy 9)ethanol, branched ☒ Xn R62; ☒ Xi R36/38 R52/53 ⚠ Repr. 2, H361 ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319 Aquatic Chronic 3, H412	≤ 2%
CAS: 102-71-6 EINECS: 203-049-8	2,2',2''-nitrilotriethanol substance with a Community workplace exposure limit	≤ 1%
CAS: 4719-04-4 EINECS: 225-208-0 Index number: 613-114-00-6	2,2',2''-(hexahydro-1,3,5-triazine-1,3,5-triyl)triethanol ☒ T R23-48/23; ☒ Xn R22; ☒ Xi R43 ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≤ 0,5%
CAS: 111-42-2 EINECS: 203-868-0 Index number: 603-071-00-1	2,2'-iminodiethanol ☒ Xn R22-48/22; ☒ Xi R38-41 ⚠ STOT RE 2, H373 ⚠ Eye Dam. 1, H318 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	≤ 0,5%

**· SVHC**

68412-54-4 | Nonylphenoxy poly (ethyleneoxy 9)ethanol, branched

**· Additional information:** For the wording of the listed risk phrases refer to section 16.**SECTION 4: First aid measures****· 4.1 Description of first aid measures****· General information:** Immediately remove any clothing soiled by the product.**· After inhalation:**

Unlikely route of exposure.

Supply fresh air; consult doctor in case of complaints.

Provide oxygen treatment if affected person has difficulty breathing.

**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

(Contd. on page 4)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

**Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit**

(Contd. of page 3)

- **After eye contact:**  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Allergic reactions  
Gastric or intestinal disorders.
- **Hazards** May be harmful if inhaled.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
Treat skin and mucous membrane with antihistamine and corticoid preparations.  
Medical supervision for at least 48 hours.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** None.
- **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** No further relevant information available.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Product forms slippery surface when combined with water.
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Pick up mechanically.  
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.

(Contd. on page 5)



# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit

(Contd. of page 4)

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Use only in well ventilated areas.
- **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:** Store in a cool location.
- **Information about storage in one common storage facility:**  
Do not store together with oxidizing and acidic materials.  
Store away from foodstuffs.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Protect from frost.
- **7.3 Specific end use(s)** No further relevant information available.

## SECTION 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:

#### 107-21-1 ethanediol

IOELV (EU)	Short-term value: 104 mg/m <sup>3</sup> , 40 ppm Long-term value: 52 mg/m <sup>3</sup> , 20 ppm Skin
TLV (USA)	Long-term value: NIC-10* mg/m <sup>3</sup> Ceiling limit: (100) mg/m <sup>3</sup> (H);*as inhalable fraction and vapor
EL (Canada)	Short-term value: 20** mg/m <sup>3</sup> Long-term value: 10** mg/m <sup>3</sup> Ceiling limit: 100* mg/m <sup>3</sup> , 50*** ppm *Aerosol; **Particulate; ***Vapour
EV (Canada)	Ceiling limit: 100 mg/m <sup>3</sup>

#### 102-71-6 2,2',2''-nitritotriethanol

TLV (USA)	Long-term value: 5 mg/m <sup>3</sup>
EL (Canada)	Long-term value: 5 mg/m <sup>3</sup>
EV (Canada)	Long-term value: 3,1 mg/m <sup>3</sup> , 0,5 ppm

#### 13463-67-7 titanium dioxide

PEL (USA)	Long-term value: 15* mg/m <sup>3</sup> *total dust
REL (USA)	See Pocket Guide App. A

(Contd. on page 6)

## Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

**Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit**

(Contd. of page 5)

TLV (USA)	Long-term value: 10 mg/m <sup>3</sup> withdrawn from NIC
EL (Canada)	Long-term value: 10* 3** mg/m <sup>3</sup> *total dust;**respirable fraction; IARC 2B
EV (Canada)	Long-term value: 10 mg/m <sup>3</sup> total dust
<b>14807-96-6 Talc</b>	
PEL (USA)	Long-term value: 20 mppcf ppm (containing <1% Quartz)
REL (USA)	Long-term value: 2* mg/m <sup>3</sup> *respirable dust
TLV (USA)	Long-term value: 2* mg/m <sup>3</sup> *as respirable fraction; E
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> respirable
EV (Canada)	Long-term value: 2* mg/m <sup>3</sup> , 2 f/cc ppm *respirable
<b>111-42-2 2,2'-iminodiethanol</b>	
REL (USA)	Long-term value: 15 mg/m <sup>3</sup> , 3 ppm
TLV (USA)	Long-term value: 1* mg/m <sup>3</sup> , 0,2* ppm Skin; *inhalable fraction and vapor
EL (Canada)	Long-term value: 2 mg/m <sup>3</sup> Skin, IARC 2B
EV (Canada)	Long-term value: 2 mg/m <sup>3</sup>

- **DNELs** No further relevant information available.
- **PNECs** No further relevant information available.
- **Additional information:** The lists valid during the making were used as basis.

### • 8.2 Exposure controls

#### • Personal protective equipment:

#### • General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

#### • Respiratory protection:

Not required under normal conditions of use.

For spills, respiratory protection may be advisable.

#### • Protection of hands:



Protective gloves

(Contd. on page 7)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

**Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit**

(Contd. of page 6)

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**

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 can not 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

- **Body protection:** Protective work clothing

- **Limitation and supervision of exposure into the environment**

No further relevant information available.

- **Risk management measures**

See Section 7 for additional information.

No further relevant information available.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Liquid

Colour: Grey

- Odour: Mild

- Odour threshold: Not determined.

- pH-value at 20 °C: 8,0-9,5

- **Change in condition**

Melting point/Melting range: Not Determined.

Boiling point/Boiling range: Undetermined.

- Flash point: >212 °F / >100 °C

- Flammability (solid, gaseous): Not applicable.

- Auto/Self-ignition temperature: Not determined.

- Decomposition temperature: Not determined.

- Self-igniting: Product is not self-igniting.

(Contd. on page 8)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit

(Contd. of page 7)

- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
  - Lower:** Not determined.
  - Upper:** Not determined.
- **Vapour pressure:** Not determined.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **9.2 Other information** No further relevant information available.

## SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Reacts with strong acids.  
Reacts with strong oxidizing agents.  
Toxic fumes may be released if heated above the decomposition point.
- **10.4 Conditions to avoid** Store away from oxidizing agents.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Carbon monoxide and carbon dioxide  
Toxic metal oxide smoke

## SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
  - on the skin:** Slight irritant effect on skin and mucous membranes.
  - on the eye:** Slight irritant effect on eyes.
- **Sensitization:** Sensitization possible through skin contact.

(Contd. on page 9)

# Safety Data Sheet

## according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS

Printing date 12.08.2014

Revision: 12.08.2014

**Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit**

(Contd. of page 8)

**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

Toxic and/or corrosive effects may be delayed up to 24 hours.

• **Sensitisation:** Sensitization possible by skin contact.

• **Repeated dose toxicity:** Repeated exposures may result in skin and/or respiratory sensitivity.

### SECTION 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 partially biodegradable. Significant residuals remain.

• **12.3 Bioaccumulative potential** No further relevant information available.

• **12.4 Mobility in soil** No further relevant information available.

• **Ecotoxicological effects:**

• **Remark:**

Due to mechanical actions of the product (e.g. agglutinations) damages may occur.

The product is oxygen-consuming. The declared action may be partly caused by lack of oxygen.

• **Additional ecological information:**

• **General notes:**

This statement was deduced from products with a similar structure or composition.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term damage of the environment can not be excluded.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

• **12.5 Results of PBT and vPvB assessment**

• **PBT:** Not applicable.

• **vPvB:** Not applicable.

• **12.6 Other adverse effects** No further relevant information available.

### SECTION 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 disposed of with household garbage after solidification following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

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.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

• **Uncleaned packaging:**

• **Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 10)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit

(Contd. of page 9)

· Recommended cleansing agents: Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- 14.1 UN-Number
  - DOT, ADR, ADN, IMDG, IATA
  - 14.2 UN proper shipping name
  - DOT, ADR, ADN, IMDG, IATA
  - 14.3 Transport hazard class(es)
  - DOT, ADR, ADN, IMDG, IATA
  - Class
  - 14.4 Packing group
  - DOT, ADR, IMDG, IATA
  - 14.5 Environmental hazards:
  - Marine pollutant:
  - 14.6 Special precautions for user
  - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  - UN "Model Regulation":
- Not Regulated
- Not Regulated
- Not Regulated
- Not Regulated
- Not Regulated
- No
- Not applicable.
- Not applicable.
- 

## SECTION 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):

107-21-1 | ethanediol

### · TSCA (Toxic Substances Control Act):

All ingredients are listed.

### · Proposition 65 (California):

#### · Chemicals known to cause cancer:

Reference to Crystalline Silica and/or Quartz is based on unbound respirable particles and is not generally applicable to product as supplied.

Reference to Titanium Dioxide is based on unbound respirable particles and is not generally applicable to product as supplied.

Reference to talc is based on unbound respirable particles and is not generally applicable to product as supplied.

14807-96-6 | Talc (Mg<sub>3</sub>H<sub>2</sub>(SiO<sub>3</sub>)<sub>4</sub>)

13463-67-7 | titanium dioxide

14808-60-7 | quartz

(Contd. on page 11)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit

(Contd. of page 10)

111-42-2	2,2'-iminodiethanol
7440-02-0	nickel powder (particle diameter < 1 mm)
7440-48-4	cobalt
7440-38-2	arsenic

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are 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)**

14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	2B
13463-67-7	titanium dioxide	2B
102-71-6	2,2',2''-nitrioltriethanol	3
14808-60-7	quartz	1
111-42-2	2,2'-iminodiethanol	3

· **TLV (Threshold Limit Value established by ACGIH)**

14807-96-6	Talc (Mg <sub>3</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>4</sub> )	A4
107-21-1	ethanediol	A4
13463-67-7	titanium dioxide	A4
14808-60-7	quartz	A2
111-42-2	2,2'-iminodiethanol	A3

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

13463-67-7	titanium dioxide
14808-60-7	quartz

· **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%)**

107-21-1	ethanediol
----------	------------

· **Other regulations, limitations and prohibitive regulations**

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

(Contd. on page 12)

# Safety Data Sheet

according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and  
GHS

Printing date 12.08.2014

Revision: 12.08.2014

**Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit**

(Contd. of page 11)

**Substances of very high concern (SVHC) according to REACH, Article 57**

68412-54-4 Nonylphenoxy poly (ethyleneoxy 9)ethanol, branched

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

## SECTION 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**

H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H332 Harmful if inhaled.  
 H361 Suspected of damaging fertility or the unborn child.  
 H373 May cause damage to organs through prolonged or repeated exposure.  
 H412 Harmful to aquatic life with long lasting effects.  
 H413 May cause long lasting harmful effects to aquatic life.  
 R20 Harmful by inhalation.  
 R22 Harmful if swallowed.  
 R23 Toxic by inhalation.  
 R36/38 Irritating to eyes and skin.  
 R38 Irritating to skin.  
 R41 Risk of serious damage to eyes.  
 R43 May cause sensitisation by skin contact.  
 R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.  
 R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.  
 R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
 R53 May cause long-term adverse effects in the aquatic environment.  
 R62 Possible risk of impaired fertility.

**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  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 WHMIS: Workplace Hazardous Materials Information System (Canada)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 Acute Tox. 4: Acute toxicity, Hazard Category 4  
 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

(Contd. on page 13)



**Safety Data Sheet**  
**according to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and**  
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Printing date 12.08.2014

Revision: 12.08.2014

**Trade name: Protack, ProtackHV, ProtackW, ProtackHVW, SLS, Lagit**

(Contd. of page 12)

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Repr. 2: Reproductive toxicity, Hazard Category 2  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3  
Aquatic Chronic 4: Hazardous to the aquatic environment - Chronic Hazard, Category 4

**Sources**

SDS Prepared by:

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# 3M™ Fire Barrier Sealant FD 150+

## Product Data Sheet

### 1. Product Description

3M™ Fire Barrier Sealant FD 150+ is an economical, ready to use, gun-grade, elastomeric sealant that dries to form a monolithic flexible firestop seal. 3M™ Fire Barrier Sealant FD 150+ firestops joints and through penetrations through floor slabs, walls and other fire-rated building partitions and assemblies. 3M™ Fire Barrier Sealant FD 150+, when properly installed, helps control the spread of fire, smoke and noxious gasses before, during and after exposure to a fire. 3M™ Fire Barrier Sealant FD 150+ remains elastomeric and exhibits excellent adhesion to a full range of construction substrates.



An economical elastomeric firestop available in multiple colors, to meet virtually any project or specification need.

Available in the following colors: ■ Blue ■ Limestone ■ Red

#### Product Features

- Firestop tested up to 3 hours in accordance with ASTM E 814 (UL 1479) & CAN/ULC-S115
- Fire Resistive Joint System tested up to 4 hours in accordance with ASTM E 1966 (UL 2079)
- ±19% movement capability
- Helps minimize sound transfer\*
- Re-enterable / repairable
- Sag-resistant formulation
- Excellent adhesion
- Paintable
- Water clean up

*Meets the intent of LEED® VOC regulations—helps reduce the quantity of indoor air contaminants that may be odorous, irritating and harmful to the comfort and well-being of the installers and occupants. <250 g/L VOC contents (less H<sub>2</sub>O and exempt solvents).*

\*Minimizes noise transfer—STC-Rating of 56 when tested in STC 56-rated wall assembly.

<b>FIRE BARRIER</b> <b>UP TO 4 HOUR</b> Fire Protection	<b>SMOKE SEAL</b> <b>L RATED</b> Meets Optional L Requirements
<b>SOUND BARRIER</b> <b>STC 56</b> In STC 56-Rated Wall Assembly	<b>ELASTOMERIC</b> <b>±19%</b> Movement Capability

**CLASSIFIED**  
**UL**

FILL, VOID OR CAVITY MATERIAL FOR USE IN JOINT SYSTEMS AND THROUGH-PENETRATION FIRESTOP SYSTEMS  
SEE UL FIRE RESISTANCE DIRECTORY 8R57

**LISTED**  
**Intertek**  
FIRESTOP SYSTEMS  
SEE INTERTEK DIRECTORY

**LISTED**  
**ULC**  
FILL, VOID OR CAVITY MATERIALS  
8R57

### 2. Applications

3M™ Fire Barrier Sealant FD 150+ is an ideal product for sealing construction joints and through penetrations such as metallic pipes, conduits, power and communication cables. 3M™ Fire Barrier Sealant FD 150+ helps control the spread of fire and helps limit the spread of noxious gasses, smoke and water when installed in accordance with a UL or Intertek listed through penetration or fire resistive joint assembly.

### 3. Specifications

3M™ Fire Barrier Sealant FD 150+ shall be a one-component, ready-to-use, gun-grade, elastomeric sealant. The sealant shall be listed by independent test agencies such as Intertek or UL. 3M™ Fire Barrier Sealant FD 150+ shall be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems, ASTM E 1966 (UL 2079) Standard Test Method for Fire Resistive Joint Systems and CAN/ULC-S115 Standard Method of Fire Tests of Firestop Systems. 3M™ Fire Barrier Sealant FD 150+ shall meet the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70), NFPA 101 and NBCC.

#### Typically Specified Divisions

Division 7

Section 07 84 00 – Firestopping

#### Related Sections

Section 07 84 16 – Annular Space Protection  
Section 07 84 43 – Fire-Resistant Joint Sealants  
Section 07 86 00 – Smoke Seals  
Section 07 87 00 – Smoke Containment Barriers  
Section 07 27 00 – Air Barriers  
Section 21 00 00 – Fire Suppression  
Section 22 00 00 – Plumbing  
Section 26 00 00 – Electrical



## 4. Performance & Typical Physical Properties

<b>Colors Available:</b>	Blue, Limestone and Red	<b>Hardness (ASTM D 2240 Shore A):</b>	60
<b>Extension/compression:</b>	Capability of ±19%	<b>Tensile Strength:</b>	85 psi (0.59 MPa)
<b>Application Temperature Range:</b> (ASTM C 1299)	40° to 122°F (4° to 50°C)	<b>Volume Shrinkage (ASTM C 1241):</b>	39.5%
<b>Service Temperature Range:</b>	-20° to 180°F (-28° to 82°C)	<b>VOC Less H<sub>2</sub>O and Exempt Solvents:</b>	<250 g/L
<b>STC Acoustic Barrier:</b> (ASTM E 90 and ASTM E 413)	56 when tested in STC 56 rated wall assembly	<b>Dry:</b> Under typical conditions of 75°F (23°C) and 50% R.H., sealant becomes tack-free in about ten minutes and dry-to-touch in 30–60 minutes. Full dry depends upon ambient conditions and volume of sealant. Typical dry rate is approximately 1/8 inch (3mm) per day. <i>Meets the intent of LEED® VOC environmental quality requirements.</i>	
<b>Surface Burning:</b> (ASTM E 84)	Flame Spread 0 Smoke Development 0		

Unit Volume: 10.1 fl. oz tube (298.7cc, 18.2 in.<sup>3</sup>), 20 fl. oz. sausage (591.5cc, 36.1 in.<sup>3</sup>), 28 fl. oz tube (828.1cc, 50.5 in.<sup>3</sup>), 4.5 gal. pail (.017m<sup>3</sup>, 1039.5 in.<sup>3</sup>)

## 5. Packaging, Storage, Shelf Life

<b>Packaging:</b>	Product packaged in cartridge or pail is enclosed in HDPE plastic containers, sausage is packaged in aluminum foil wrap.
<b>Storage:</b>	3M™ Fire Barrier Sealant FD 150+ should be stored indoors in dry conditions between 40°F and 90°F (4°C and 32°C). Avoid repeated freeze / thaw exposures of the 3M™ Fire Barrier Sealant FD 150+ while still in the packaging.
<b>Shelf Life:</b>	3M™ Fire Barrier Sealant FD 150+ shelf life is 18 months in original unopened containers from date of packaging when stored above 68°F (20°C). Lot numbering: First to sixth digit = Date of Production (MMDDYY) Seventh indicator = dash symbol (-) Eighth digit = shift number

## 6. Installation Techniques

*Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales Representative for Applicable UL, Intertek or other third-party drawings and system details.*

<b>Preparatory Work:</b>	The surface of the opening and any penetrating items should be cleaned to allow for the proper adhesion of the 3M™ Fire Barrier Sealant FD 150+. Ensure that the surface of the substrates are not wet and are frost free. Sealant can be installed with a standard caulking gun, pneumatic pumping equipment or it can be easily applied with a putty knife or trowel.
<b>Installation Details:</b>	Install the applicable depth of backing material, if required, as detailed within the applicable UL, Intertek or other third-party listed system. Cut the end of the 3M™ Fire Barrier Sealant FD 150+ tube spout to achieve the desired bead width when applying. Install the applicable depth of 3M™ Fire Barrier Sealant FD 150+ into the opening flush with the surface of the substrate, or as detailed within the applicable listed system, at the required depth for the assembly and rating that is required. Tool within 5 minutes. Clean all tools immediately after use with water.
<b>Limitations:</b>	Do not apply 3M™ Fire Barrier Sealant FD 150+ when surrounding temperature is less than 40°F (4°C) and in conditions when seals may be exposed to rain or water spray within 18 hours of application. Do not apply 3M™ Fire Barrier Sealant FD 150+ to building materials that bleed oil, plasticizers or solvent (e.g. impregnated wood, oil-based sealants, or green or partially-vulcanized rubber) Do not apply 3M™ Fire Barrier Sealant FD 150+ to wet or frost-coated surfaces or areas that are continuously damp or immersed in water. <b>NOTICE:</b> This product is not acceptable for use with chlorinated polyvinylchloride (CPVC) pipes.

## 7. Maintenance

No maintenance is expected when installed in accordance with the applicable UL, Intertek or other third-party listed system. Once installed, if any section of the 3M™ Fire Barrier Sealant FD 150+ is damaged, the following procedure will apply: remove and reinstall the damaged section in accordance with the applicable listed system, with a minimum 1/2 in. (12.7mm) overlap onto the adjacent material.

## 8. Availability

3M™ Fire Barrier Sealant FD 150+ is available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ Fire Barrier Sealant FD 150+ is available in 10.1 fl. oz. cartridges, 20.0 oz. sausages, 28.0 fl. oz. cartridges and 4.5 gallon pails. For additional technical and purchasing information regarding this and other 3M Fire Protection Products, please call: 1-800-328-1687 or visit [www.3M.com/firestop](http://www.3M.com/firestop).

## 9. Safe Handling Information

*Consult product's Material Safety Data Sheet (MSDS) prior to handling and disposal.*



### Building and Commercial Services Division

3M Center, Building 223-2N-21  
St. Paul, MN 55144-1000 USA  
1-800-328-1687  
[www.3M.com/firestop](http://www.3M.com/firestop)

#### Important Notice to User:

**Technical Information:** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed. **Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application. **Warranty and Limited Remedy:** 3M warrants that each 3M Fire Protection Product will be free from defects in material and manufacture for 90 days from the date of purchase from 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price. **Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.

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## Section 1: Identification of the Substance/Mixture and of the Company Undertaking

**Product Name:** AF Series Aluminum Foil Tape with Acrylic Adhesive and Liner  
**Manufacturer Name:** Shurtape Technologies, LLC  
**Manufacturer Address 1:** 1712 8th Street Drive SE  
**Manufacturer City:** Hickory  
**Manufacturer State:** NC  
**Manufacturer Zip Code:** 28602  
**Manufacturer Country:** United States  
**Business Phone:** 828-322-2700  
**Creation Date:** 8/20/2018

## Section 2: Hazards Identification

**Signal Words:** Not applicable.  
**GHS Class Phrases:** Not classified as hazardous according to OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### Product:

**Notes from Section 2:** This adhesive tape product is a manufactured item that meets the definition of an "article" under the OSHA Hazard Communication Standard, which exempts articles from the requirements of the Standard, including the requirement to provide an SDS. This SDS was prepared solely for the reference of, and as a courtesy to, Shurtape's customers.

## Section 3: Composition/Information on Ingredients

Ingredient Name	CAS Number	Ingredient Percent	EC Number	Comments
Aluminum Foil Backing	Proprietary	40-60%		
Acrylic Adhesive	Proprietary	25-45%		See TDS for specific adhesive type
Release Liner	Proprietary	15-25%		

## Section 4: First Aid Measures

**Inhalation:** Not applicable  
**Skin Contact:** Wash with soap and water. Seek medical attention if irritation develops or persists.  
**Eye Contact:** If wearing contact lenses, remove. Hold eyelids apart and immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get medical attention if irritation persists.  
**Ingestion:** Do not give anything by mouth to an unconscious person. Seek medical attention if symptoms develop.

## Section 5: Firefighting Measures

<b>Fire:</b>	Minimal fire hazard as supplied. Polymers in the adhesive and in the backing will support combustion.
<b>Extinguishing Media:</b>	Foam, water spray, CO2, or dry chemical extinguisher
<b>Fire Fighting Instructions:</b>	Wear a self-contained breathing apparatus with a full face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment.
<b>Hazardous Decomposition Byproducts:</b>	If this product is subject to combustion it will undergo hazardous decomposition that will yield the formation and release of hazardous substances including but not limited to carbon dioxide, carbon monoxide, polycyclic organic matter, and smoke.

## Section 6: Accidental Release Measures

<b>Personnel Precautions:</b>	Not applicable
<b>Environmental Precautions:</b>	Not applicable
<b>Methods for Containment:</b>	Not applicable
<b>Methods for Cleanup:</b>	Not applicable

## Section 7: Handling and Storage

<b>Handling:</b>	Material will be tacky/sticky. Recommend washing hands after use.
<b>Storage:</b>	Not applicable

## Section 8: Exposure Controls/Personal Protection

<b>Eye Protection:</b>	Safety glasses with side-shields recommended.
<b>Skin Protection:</b>	Normal lightweight work clothing will minimize skin contact. Use of lightweight cloth or leather gloves recommended.
<b>Respiratory Protection:</b>	No adverse respiratory exposure anticipated under normal use.
<b>Notes from Section 8:</b>	Under normal conditions of use, this product is not expected to release hazardous chemicals or pose a physical hazard or health risk.

## Section 9: Physical and Chemical Properties

<b>Physical State:</b>	Solid
<b>Color:</b>	Various
<b>Odor:</b>	No Strong Odor
<b>Odor Threshold:</b>	Not applicable
<b>pH:</b>	Not applicable
<b>Melting Temperature:</b>	>100 C
<b>Boiling Temperature:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Vapor Pressure:</b>	Not applicable
<b>Vapor Density:</b>	Not applicable
<b>Density:</b>	Not applicable
<b>Solubility In Water:</b>	Not applicable

<b>Solubility:</b>	Not applicable
<b>Partition Coefficient:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not applicable
<b>Specific Gravity:</b>	Not applicable

## Section 10: Stability and Reactivity

<b>Chemical Stability:</b>	Stable
<b>Conditions To Avoid:</b>	Not applicable
<b>Incompatible Materials:</b>	Strong acids and oxidizing agents
<b>Hazardous Decomposition Products:</b>	None anticipated under normal or recommended handling, storage, and use conditions. If this product is subject to combustion it will undergo hazardous decomposition that will yield the formation and release of hazardous substances including but not limited to carbon dioxide, carbon monoxide, polycyclic organic matter and particulate matter. This is not the intended use for this product.
<b>Hazardous Polymerization:</b>	Not anticipated under normal or recommended handling, use, or storage conditions.

## Section 11: Toxicological Information

### Product:

<b>Acute Toxicity:</b>	Not applicable
<b>Acute Skin Effects:</b>	Not applicable
<b>Acute Eye Effects:</b>	Not applicable
<b>Sensitization:</b>	Not applicable
<b>Mutagenicity:</b>	Not applicable
<b>IARC Carcinogen:</b>	Not applicable
<b>ACGIH Carcinogen:</b>	Not applicable
<b>NTP Carcinogen:</b>	Not applicable
<b>OSHA Carcinogen:</b>	Not applicable
<b>Reproductive Toxicity:</b>	Not applicable

## Section 12: Ecological Information

### Product:

<b>Ecotoxicity:</b>	No data available
<b>Biodegradation:</b>	No data available
<b>BioAccumulation:</b>	No data available

## Section 13: Disposal Considerations

<b>Waste Disposal:</b>	This adhesive tape product , as supplied, is classified as RCRA non-hazardous, based upon knowledge of ingredients and the production process. It is the responsibility of the end user to classify the waste prior to disposal, and dispose of per appropriate local , state, and/or federal regulations.
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## Section 14: Transport Information

<b>DOT:</b>	Not regulated
<b>IMDG:</b>	Not regulated
<b>IATA:</b>	Not regulated

## Section 15: Regulatory Information

### Regulatory - Product Based:

**OSHA 29 CFR 1200:** Not regulated. This adhesive tape product meets the definition of an "article".

**TSCA 8(b): Inventory Status:** The intentional ingredients of this article are listed in the TSCA Inventory.

**Section 313 Toxic Release Form:** None

**Section 312 Hazard Category:** None

**Safe Drinking Water Act:** Please refer to the Regulatory Compliance Letter for this product.

**European International Regulations:** Please refer to the Regulatory Compliance Letter for this product.

**Canada DSL:** The intentional ingredients of this product are listed.

## Section 16: Additional Information

**Creation Date:** 8/20/2018

**Author:** Shurtape Technologies, LLC EHS-C Group

**Disclaimer:** The information herein is presented in good faith. This information is believed to be accurate as of the effective date indicated on the SDS. No warranty is expressed or implied. Regulatory requirements are subject to change and differ from location to location. It is the responsibility of the end user to ensure compliance with all laws including federal, state and local regulations.

**Notes from Section 16:** This safety data sheet (SDS) was prepared solely for the reference of, and as a courtesy to, Shurtape's customers. The adhesive tape product to which this SDS refers is a manufactured item that meets the definition of an "article" under the OSHA Hazard Communication Standard (hereinafter "the Standard"), which exempts articles from the requirements of the Standard, including the requirement to provide an SDS. Under normal conditions of use this product is not expected to release hazardous chemicals, nor pose a physical hazard or health risk, such that the Standard would require Shurtape to provide an SDS. However, failure to use this product in accordance with Shurtape's recommendations or under normal conditions could result in potential physical hazards, health risks, or other hazards.

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