

# SAFETY DATA SHEET



## PREMIER BUILDING SOLUTIONS, INC.

Page 1 of 12  
Version: 1.1  
Revision Date: 3/23/2015

### XTRABOND 25 ACRYLIC LATEX CAULK

#### 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**Product Brand Name:** XtraBond 25  
**Other Names/Synonyms:** None  
**Recommended Use:** Sealant - Other  
**Uses advised against:** No information available

**Company Contact Information**

Premier Building Solutions, Inc.  
480 Nova Drive  
Massillon, OH. 44646  
Telephone: 330-244-2907

**Emergency Telephone Number**

CHEMTREC: 1-800-424-9300 (24 hours) or 1-703-527-3887

#### 2. HAZARDS IDENTIFICATION

GHS Classification



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

**Serious eye damage/eye irritation:** Category 2

**Emergency Overview:** Signal word - Warning

**Hazard Statements:** Causes serious eye irritation

**Appearance:** Varies

**Physical State:** Paste Liquid

**Odor:** Latex

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling; Wear eye/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention; Specific treatment (see supplemental first aid instructions on this label)

# SAFETY DATA SHEET



## PREMIER BUILDING SOLUTIONS, INC.

Page 2 of 12  
Version: 1.1  
Revision Date: 3/23/2015

### **XTRABOND 25 ACRYLIC LATEX CAULK**

#### **Skin**

IF ON SKIN: Wash with plenty of soap and water; If skin irritation or rash occurs: Get medical advice/attention; Take off contaminated clothing and wash before reuse

#### **Eyes**

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

#### **Ingestion**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician; Do NOT induce vomiting

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

None

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Unknown Toxicity**

70.4% of the mixture consists of ingredient(s) of unknown toxicity

#### **Other Information**

Harmful to aquatic life with long lasting effects

#### **Interactions with Other Chemicals**

No information available.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Substance:** Mixture

**Chemical Nature:** Latex

<u>CAS Number</u>	<u>*Wt %</u>	<u>Component Name</u>
1317-65-3	40 - 70	Limestone
Proprietary	20 - 30	Vinyl Acrylic Polymers
1333-86-4	1 - 5	Carbon Black (if needed)
13463-67-7	1 - 5	Titanium Dioxide (if needed)

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## SAFETY DATA SHEET



### **PREMIER BUILDING SOLUTIONS, INC.**

Page 3 of 12  
Version: 1.1  
Revision Date: 3/23/2015

### **XTRABOND 25 ACRYLIC LATEX CAULK**

#### **4. FIRST AID MEASURES**

**General Advice:** 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. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

**Skin Contact**

Wash with soap and water.

**Inhalation**

Remove to fresh air.

**Ingestion**

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

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

Burning sensation

Indication of any immediate medical attention and special treatment needed

**Notes to Physician**

Treat symptomatically

#### **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**

Product is or contains a sensitizer; May cause sensitization by skin contact

Uniform Fire Code

Irritant: Liquid

## SAFETY DATA SHEET



### **PREMIER BUILDING SOLUTIONS, INC.**

Page 4 of 12  
Version: 1.1  
Revision Date: 3/23/2015

## **XTRABOND 25 ACRYLIC LATEX CAULK**

### **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**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

#### **Other Information**

Refer to protective measures listed in Sections 7 and 8.

### **Environmental Precautions**

#### **Environmental Precautions**

Refer to protective measures listed in Sections 7 and 8.

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

# SAFETY DATA SHEET



## PREMIER BUILDING SOLUTIONS, INC.

Page 5 of 12  
Version: 1.1  
Revision Date: 3/23/2015

### XTRABOND 25 ACRYLIC LATEX CAULK

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

##### Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

##### Incompatible Products

None known based on information supplied

## 8. EXPOSURE CONTROLS & PERSONAL PROTECTION

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Supplier Trade Secret	-	TWA: 15 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (vacated) TWA: 15 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup> respirable dust TWA: 10 mg/m <sup>3</sup> total dust

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

### Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

### Appropriate engineering controls

Showers  
Eyewash stations  
Ventilation systems

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

#### Eye/Face Protection

If splashes are likely to occur: Wear safety glasses with side shields (or goggles). None required for consumer use.

#### Skin and Body Protection

Wear protective gloves and protective clothing.

#### 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. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes, and clothing. Wear suitable gloves and eye/face protection.

# SAFETY DATA SHEET



## PREMIER BUILDING SOLUTIONS, INC.

Page 6 of 12  
Version: 1.1  
Revision Date: 3/23/2015

### XTRABOND 25 ACRYLIC LATEX CAULK

#### 9. PHYSICAL & CHEMICAL PROPERTIES

Physical Form: Paste, Liquid  
Color: Varies  
Odor: Latex  
Odor Threshold: No information available  
Appearance: Varies

<u>Property</u>	<u>Values</u>	<u>Remarks Method</u>
pH	UNKNOWN	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	No data available	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	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing Properties	No data available	

#### Other Information

Softening Point	No data available
VOC Content (g/L)	16
Particle Size	No data available
Particle Size Distribution	No data available

#### 10. STABILITY AND REACTIVITY

##### Reactivity

No data available.

## SAFETY DATA SHEET



### PREMIER BUILDING SOLUTIONS, INC.

Page 7 of 12  
Version: 1.1  
Revision Date: 3/23/2015

## XTRABOND 25 ACRYLIC LATEX CAULK

#### 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

None known based on information supplied.

#### Incompatible materials

None known based on information supplied.

#### 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. May cause irritation of respiratory tract.

##### **Eye Contact:**

Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to eyes. May cause redness, itching, and pain. May cause temporary eye irritation.

##### **Skin Contact:**

Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.

##### **Ingestion:**

Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Information on toxicological effects

##### **Symptoms:**

May cause redness and tearing of the eyes

## SAFETY DATA SHEET



### PREMIER BUILDING SOLUTIONS, INC.

Page 8 of 12  
Version: 1.1  
Revision Date: 3/23/2015

### **XTRABOND 25 ACRYLIC LATEX CAULK**

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

##### **Sensitization:**

No information available.

##### **Mutagenic Effects:**

No information available.

##### **Carcinogenicity:**

Contains no ingredient listed as a carcinogen.

##### **Reproductive Toxicity**

No information available.

##### **STOT - single exposure**

No information available.

##### **STOT - repeated exposure**

No information available.

##### **Chronic Toxicity**

No known effect based on information supplied.

##### **Target Organ Effects**

Eyes. Skin. Respiratory system.

##### **Aspiration Hazard**

No information available.

#### Numerical measures of toxicity

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

Not applicable

## 12. ECOLOGICAL CONSIDERATIONS

##### **Ecotoxicity**

The environmental impact of this product has not been fully investigated; Harmful to aquatic life with long lasting effects

##### **Persistence and Degradability**

No information available.

##### **Bioaccumulation**

No information available

## SAFETY DATA SHEET



### PREMIER BUILDING SOLUTIONS, INC.

Page 9 of 12  
Version: 1.1  
Revision Date: 3/23/2015

## XTRABOND 25 ACRYLIC LATEX CAULK

#### 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.

### 14. TRANSPORT INFORMATION

DOT NOT REGULATED

TDG Not regulated

MEX Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

### 15. REGULATORY INFORMATION

#### International Inventories

TSCA Complies

# SAFETY DATA SHEET



## PREMIER BUILDING SOLUTIONS, INC.

Page 10 of 12  
Version: 1.1  
Revision Date: 3/23/2015

### XTRABOND 25 ACRYLIC LATEX CAULK

**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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

##### **SARA 311/312 Hazard Categories**

Acute Health Hazard: Yes  
Chronic Health Hazard: No  
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)

##### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

##### **California Proposition 65**

None reportable

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

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Supplier Trade Secret	X	X	X		
Supplier Trade Secret	X	X	X	X	X

**SAFETY DATA SHEET**



**PREMIER BUILDING SOLUTIONS, INC.**

Page 11 of 12  
Version: 1.1  
Revision Date: 3/23/2015

**XTRABOND 25 ACRYLIC LATEX CAULK**

**International Regulations**

**Mexico**

Component	Carcinogen Status	Exposure Limits
Supplier Trade Secret (40-70)		Mexico: TWA= 10 mg/m <sup>3</sup> Mexico: STEL= 20 mg/m <sup>3</sup>

Mexico – Occupational Exposure Limits - Carcinogens

**Canada**

WHMIS Hazard Class  
D2B - Toxic materials



**16. OTHER INFORMATION**

**NFPA**

Health Hazards: 2  
Flammability: 0  
Instability: 0  
Physical/Chemical Haz. -

**HMIS**

Health Hazards: 2\*  
Flammability: 0  
Physical Hazard: 0  
Personal Protection: X

Chronic Hazard Star Legend \* = Chronic Health Hazard

## **SAFETY DATA SHEET**



### **PREMIER BUILDING SOLUTIONS, INC.**

Page 12 of 12  
Version: 1.1  
Revision Date: 3/23/2015

### **XTRABOND 25 ACRYLIC LATEX CAULK**

**Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations. 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**

<http://www.xtrabond.com>

**1 Identification**· **Product identifier**

· **Trade name:** **CF-AS CJP; CF ISO 765; CF ISO 500+; CF-I ECO +; CS-F JS; CF 812 CC; CF-F ECO; CF-I 50 ECO GV; CF 125-50; CF 125-5W50; CF 126-N; CF 126; CF ISO 750; CF-I 750 B2 (-SV); CF 116-45; CF F 600; CF 116; CF-JI; CF 812; CF 812 WD; CF-I 65 ECO**

· **Relevant identified uses of the substance or mixture and uses advised against**

· **Sector of Use** Building and construction work

· **Application of the substance / the mixture**

Assembly foam  
Construction chemicals

· **Details of the supplier of the safety data sheet**· **Manufacturer/Supplier:**

Hilti, Inc.  
5400 South 122nd East Ave.  
US-Tulsa, OK 74146  
Phone: (800) 879-8000  
Fax: (800) 879-7000  
Español: (800) 879-5000

· **Information department:**

see section 16  
chemicals.hse@hilti.com

· **Emergency telephone number:**

Chem-Trec  
Tel.: 1 800 424 9300  
Tox Info Suisse - 24 h Service  
Tel.: 0041 / 44 251 51 51 (international)

**2 Hazard(s) identification**· **Classification of the substance or mixture**

Flam. Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.  
Acute Tox. 4 H332 Harmful if inhaled.  
Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
Carc. 2 H351 Suspected of causing cancer.  
STOT SE 3 H335 May cause respiratory irritation.  
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

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

Xn; Harmful

R20-40-48/20: Harmful by inhalation. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Xn; Sensitising

R42/43: May cause sensitization by inhalation and skin contact.

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

F+; Extremely flammable

R12: Extremely flammable.

· **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.

Warning! Pressurized container.

· **Label elements**

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS02



GHS07



GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

4,4'-diphenylmethanediisocyanate, isomeres and homologues

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurized container: May burst if heated.  
H332 Harmful if inhaled.  
H315 Causes skin irritation.

(Contd. of page 1)

- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statements**

- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P211 Do not spray on an open flame or other ignition source.
- P251 Pressurized container: Do not pierce or burn, even after use.
- P260 Do not breathe dust/fume/gas/mist/vapors/spray.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P302+P352 If on skin: Wash with plenty of water.
- P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

**Classification system**

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



Health = 1  
Fire = 4  
Reactivity = 1

- Other hazards**
- Results of PBT and vPvB assessment**
- PBT:** Not applicable.
- vPvB:** Not applicable.

**3 Composition/information on ingredients**

- Chemical characterization: Mixtures**
- Description:** Mixture consisting of the following components.

**Dangerous components:**

9016-87-9	4,4'-diphenylmethanediisocyanate, isomeres and homologues	Xn R20-40-48/20; Xn R42/43; Xi R36/37/38	>25%
13674-84-5	Tris(1-chloro-2-propyl)phosphate	Xn R22 R52/53	10-25%
75-28-5	isobutane	F+ R12	5-15%
106-97-8	butane, pure	F+ R12	5-15%
115-10-6	dimethyl ether	F+ R12	5-15%
74-98-6	propane liquefied	F+ R12	5-15%

- Additional information** For the wording of the listed risk phrases refer to section 16.

**4 First-aid measures**

- Description of first aid measures**
- General information**  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- After inhalation** Supply fresh air; consult doctor in case of complaints.
- After skin contact** Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
- After eye contact** Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing**  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; immediately call for medical help.
- Information for doctor**
- Most important symptoms and effects, both acute and delayed** Allergic reactions
- Indication of any immediate medical attention and special treatment needed** No further relevant information available.

**5 Fire-fighting measures**

- Extinguishing media**
- Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents** Water with full jet.
- Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
Can form explosive gas-air mixtures.
- Advice for firefighters**
- Protective equipment:**  
Wear self-contained respiratory protective device.  
Mount respiratory protective device.

(Contd. on page 3)



(Contd. of page 2)

- Additional information Cool endangered receptacles with water spray.

## 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures**
  - Wear protective clothing.
  - Ensure adequate ventilation
  - Keep away from ignition sources
- Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:**
  - Allow to solidify. Pick up mechanically.
  - Dispose contaminated material as waste according to item 13.
  - Do not flush with water or aqueous cleansing agents
- 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 receptacles tightly sealed.
  - Store in cool, dry place in tightly closed receptacles.
  - Keep away from heat and direct sunlight.
  - Ensure good ventilation/exhaustion at the workplace.
  - Open and handle receptacle with care.
- Information about protection against explosions and fires:**
  - Don't spray on a naked flames or any incandescent material
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Contents under pressure. Do not store in direct sunlight. Do not store above 100°F. Do not open or burn even after use.
- Conditions for safe storage, including any incompatibilities**
- Storage**
- Requirements to be met by storerooms and receptacles:**
  - Store in a cool location.
  - Observe official regulations on storing packagings with pressurized containers.
- Information about storage in one common storage facility:** Store away from foodstuffs.
- Further information about storage conditions:**
  - Protect from heat and direct sunlight.
  - Store receptacle in a well ventilated area.
  - Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.
- Storage class 2 B**
- Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- Control parameters**

- Components with limit values that require monitoring at the workplace:**

<b>75-28-5 isobutane</b>	
TLV	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
<b>106-97-8 butane, pure</b>	
REL	Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm
TLV	Short-term value: 2370 mg/m <sup>3</sup> , 1000 ppm
<b>115-10-6 dimethyl ether</b>	
WEEL	Long-term value: 1000 ppm
<b>74-98-6 propane liquefied</b>	
PEL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
REL	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm
TLV	refer to Appendix F: minimal oxygen content

- Additional information:** The lists that were valid during the creation were used as basis.

- Exposure controls**
- Personal protective equipment**
- General protective and hygienic measures**
  - Do not eat, drink, smoke or sniff while working.
  - Keep away from foodstuffs, beverages and feed.
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
  - Immediately remove all soiled and contaminated clothing
  - Do not inhale gases / fumes / aerosols.

(Contd. on page 4)

(Contd. of page 3)

- **Breathing equipment:**  
Not necessary if room is well-ventilated.  
Use suitable respiratory protective device in case of insufficient ventilation.
- **Recommended filter device for short term use:**  
Filter AX  
EN 371
- **Protection of hands:**



Protective gloves.

EN 374

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material** Value for the permeation: Level  $\leq 60$
- **Eye protection:**



Tightly sealed goggles.

EN 166 + EN 170

- **Body protection:**



Protective work clothing.

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance:

- **Form:** Aerosol
- **Color:** Different according to coloring
- **Odor:** Characteristic
- **Odour threshold:** Not determined.

• **pH-value:** Not determined.

##### Change in condition

- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:**  $<35\text{ }^{\circ}\text{C}$  ( $<95\text{ }^{\circ}\text{F}$ )

• **Flash point:**  $<0\text{ }^{\circ}\text{C}$  ( $<32\text{ }^{\circ}\text{F}$ ) (DIN 53213)

• **Flammability (solid, gaseous)** Not applicable.

• **Ignition temperature:**  $235\text{ }^{\circ}\text{C}$  ( $455\text{ }^{\circ}\text{F}$ )

• **Decomposition temperature:** Not determined.

• **Auto igniting:** Product is not selfigniting.

• **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

##### Explosion limits:

- **Lower:** 1.5 Vol %
- **Upper:** 11 Vol %

• **Vapor pressure:** Not determined

• **Density:** Not determined

• **Relative density** Not determined.

• **Vapour density** Not determined.

• **Evaporation rate** Not applicable.

##### Solubility in / Miscibility with

• **Water:** Not miscible or difficult to mix

• **Partition coefficient (n-octanol/water):** Not determined.

##### Viscosity:

- **dynamic:** Not determined.
- **kinematic:** Not determined.

(Contd. on page 5)

(Contd. of page 4)

Other information

CF 116 - VOC Content: 2.1 g/l (EPA Method 24)  
CF 812 - VOC Content: 2.4 g/l (EPA Method 24)  
CF-AS CJP - VOC Content: 0.012 g/l (EPA Method 24)

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions**  
Reacts with alcohols, amines, aqueous acids and alkalis  
Danger of bursting
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

LD/LC50 values that are relevant for classification:

9016-87-9 4,4'-diphenylmethanediisocyanate, isomeres and homologues

Oral	LD50	>5000 mg/kg (rat)
Inhalative	LC50/4h	0.49 mg/l (rat)

13674-84-5 Tris(1-chloro-2-propyl)phosphate

Oral	LD50	1150 - 1750 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)
Inhalative	LC50/4h	>5 mg/l (rat)

74-98-6 propane liquefied

Inhalative	LC50/4h	513 mg/l (rat)
------------	---------	----------------

115-10-6 dimethyl ether

Inhalative	LC50/4h	308 mg/l (rat)
------------	---------	----------------

75-28-5 isobutane

Inhalative	LC50/4h	>50 mg/l (rat)
------------	---------	----------------

106-97-8 butane, pure

Inhalative	LC50/4h	658 mg/l (rat)
------------	---------	----------------

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

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

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:

Harmful  
Irritant

IARC (International Agency for Research on Cancer)

9016-87-9 4,4'-diphenylmethanediisocyanate, isomeres and homologues	3
---	---

NTP (National Toxicology Program)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

Toxicity

Aquatic toxicity:

13674-84-5 Tris(1-chloro-2-propyl)phosphate

EC50/48h	65 - 335 mg/l (magna daphnia)
----------	-------------------------------

EC50/72h	45 mg/l (Algae)
----------	-----------------

EC50/96h	56.2 mg/l (fish)
----------	------------------

9016-87-9 4,4'-diphenylmethanediisocyanate, isomeres and homologues

EC50/96h	>1000 mg/l (fish)
----------	-------------------

115-10-6 dimethyl ether

EC50/96h	>1000 mg/l (fish)
----------	-------------------

(Contd. on page 6)

(Contd. of page 5)

74-98-6 propane liquefied
EC50/96h >1000 mg/l (fish)
<ul style="list-style-type: none"> <li>· <b>Persistence and degradability</b> Based on previous experience, this product is inert and non-degradable.</li> <li>· <b>Behavior in environmental systems:</b></li> <li>· <b>Bioaccumulative potential</b> Does not accumulate in organisms</li> <li>· <b>Mobility in soil</b> No further relevant information available.</li> <li>· <b>Additional ecological information:</b></li> <li>· <b>General notes:</b> Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.</li> <li>· <b>Results of PBT and vPvB assessment</b></li> <li>· <b>PBT:</b> Not applicable.</li> <li>· <b>vPvB:</b> Not applicable.</li> <li>· <b>Other adverse effects</b> No further relevant information available.</li> </ul>

**13 Disposal considerations**

<ul style="list-style-type: none"> <li>· <b>Waste treatment methods</b></li> <li>· <b>Recommendation</b> After curing, the product can be disposed of with household waste. Full or only partially emptied cartridges must be disposed of as special waste in accordance with official regulations.</li> </ul>				
<ul style="list-style-type: none"> <li>· <b>European waste catalogue:</b></li> </ul> <table border="1"> <tr> <td>08 04 09*</td> <td>waste adhesives and sealants containing organic solvents or other dangerous substances</td> </tr> <tr> <td>20 01 27*</td> <td>paint, inks, adhesives and resins containing dangerous substances</td> </tr> </table>	08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances	20 01 27*	paint, inks, adhesives and resins containing dangerous substances
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances			
20 01 27*	paint, inks, adhesives and resins containing dangerous substances			
<ul style="list-style-type: none"> <li>· <b>Uncleaned packagings:</b></li> <li>· <b>Recommendation:</b> Dispose of packaging according to regulations on the disposal of packagings. Disposal must be made according to official regulations.</li> </ul>				

**14 Transport information**

<ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>	UN1950
<ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	Aerosols, flammable 1950 Aerosols AEROSOLS AEROSOLS, flammable
<ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2 5F Gases 2.1
<ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>	
	
<ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	2.1 2.1
<ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT, ADR, IMDG, IATA</b></li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> <li>· <b>Special marking (IATA):</b></li> </ul>	No None None

(Contd. on page 7)

(Contd. of page 6)

· Special precautions for user	Warning: Gases
· Danger code (Kemler):	Void
· EMS Number:	F-D,S-U
· Segregation groups	None
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· IATA	
· Remarks:	Packing Instruction No. 203
· UN "Model Regulation":	UN1950, Aerosols, 2.1

### 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (Extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings):	
9016-87-9	4,4'-diphenylmethanediisocyanate, isomeres and homologues
· TSCA (Toxic Substances Control Act):	
All ingredients are listed.	
· Proposition 65:	
· Chemicals known to cause cancer:	
None of the ingredients are listed.	
· Cancerogenity categories	
· EPA (Environmental Protection Agency)	
9016-87-9	4,4'-diphenylmethanediisocyanate, isomeres and homologues
	CBD
· TLV (Threshold Limit Value established by ACGIH)	
None of the ingredients is listed.	
· MAK (German Maximum Workplace Concentration)	
9016-87-9	4,4'-diphenylmethanediisocyanate, isomeres and homologues
	4
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· Chemical safety assessment: not required.	

### 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

- R12 Extremely flammable.
- R20 Harmful by inhalation.
- R22 Harmful if swallowed.
- R36/37/38 Irritating to eyes, respiratory system and skin.
- R40 Limited evidence of a carcinogenic effect.
- R42/43 May cause sensitization by inhalation and skin contact.
- R48/20 Harmful: 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

#### · Department issuing SDS:

Hilti Corporation  
Business Unit Chemicals  
Quality/Safety/Environment  
FL-9494 Schaan / Liechtenstein

chemicals.hse@hilti.com

Tel.: +423 234 3004

FAX.: +423 234 3462

#### · Date of preparation / last revision 05/19/2015 / 4

#### · 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
- 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)
- LCS0: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent

(Contd. on page 8)



**Safety Data Sheet**  
acc. to ISO 11014

Printing date 05/19/2015

Version number 5

Reviewed on 05/19/2015

(Contd. of page 7)

Flam. Aerosol 1: Flammable aerosols, Hazard Category 1  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A  
Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1  
Skin Sens. 1: Sensitisation - Skin, Hazard Category 1  
Carc. 2: Carcinogenicity, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
\* Data compared to the previous version altered.

US

**Fiber Glass Insulation**

Version 1.3

Revision Date 06/10/2016

Print Date 06/14/2016

- In case of skin contact : Take off all contaminated clothing immediately.  
If on skin, rinse well with water.  
Get medical attention if irritation develops and persists.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If eye irritation persists, consult a specialist.
- If swallowed : If symptoms persist, call a physician.  
Rinse mouth with water to remove dust or fibers and drink plenty of water to help reduce irritation.
- Most important symptoms and effects, both acute and delayed : None known.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
- Methods and materials for containment and cleaning up : Take up mechanically.  
Pick up and arrange disposal without creating dust.

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : Provide appropriate exhaust ventilation at places where dust is formed.
- Advice on safe handling : For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Conditions for safe storage : Keep in a dry, cool place.
- Materials to avoid : No materials to be especially mentioned.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

## Fiber Glass Insulation

Version 1.3

Revision Date 06/10/2016

Print Date 06/14/2016

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Glass fibers shown to be biosoluble	Not Assigned		1 fibre/cm <sup>3</sup>	ACGIH
Nuisance dust	Not Assigned	TWA (Total particulate)	15 mg/m <sup>3</sup>	OSHA
		TWA (Respirable fraction)	5 mg/m <sup>3</sup>	OSHA

As a member of the North American Insulation Manufacturers Association (NAIMA), JM subscribes to the NAIMA Product Stewardship Program (NPSP). Under the NPSP, JM recommends that exposures be limited to the voluntary concentration of 1 f/cc TWA. The NPSP also includes work practice and respiratory protection recommendations. For more information, see NAIMA's Health and Safety Reference Library (website: <http://insulationinstitute.org/tools-resources/resource-library/health-safety/>) to find the Product Stewardship Program Pocket Folder (N052) and other Fact Sheets.

### Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

### Hand protection

Remarks : For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Skin and body protection : Long sleeved clothing

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

---

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : solid

Colour : white, amber, brown

Odour : slight

Odour Threshold : No data available

pH : Not applicable

Melting point/range : Not applicable

: Not applicable

Flash point : Not applicable

Evaporation rate : Not applicable

**Fiber Glass Insulation**

Version 1.3

Revision Date 06/10/2016

Print Date 06/14/2016

---

Flammability (solid, gas)	: No data available
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: No data available
Density	: Not applicable
Solubility(ies)	
Water solubility	: Not applicable
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Thermal decomposition	: Not applicable
Viscosity	
Viscosity, dynamic	: Not applicable
Viscosity, kinematic	: Not applicable

---

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: Stable under recommended storage conditions. No hazards to be specially mentioned.
Conditions to avoid	: No data available

---

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>IARC</b>	Group 3: Not classifiable as to its carcinogenicity to humans  Glass fibers shown to be biosoluble
<b>OSHA</b>	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>NTP</b>	No component of this product present at levels greater than or

**Fiber Glass Insulation**

Version 1.3

Revision Date 06/10/2016

Print Date 06/14/2016

equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Further information****Product:**

Remarks: Temporary mechanical abrasion (itching) of skin, eyes and respiratory tract may occur upon exposure to fibers or dust during handling of this product and cannot occur unless there is direct contact.

---

**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects****Product:**

Additional ecological information : Due to the properties of the product, a hazard to the environment may not be expected.

---

**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Disposal of residual product : In accordance with local and national regulations.

---

**SECTION 14. TRANSPORT INFORMATION****International transport regulations**

These products are not classified as dangerous goods according to international transport regulations.

---

**SECTION 15. REGULATORY INFORMATION****TSCA list****EPCRA - Emergency Planning and Community Right-to-Know Act****CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**Fiber Glass Insulation**

Version 1.3

Revision Date 06/10/2016

Print Date 06/14/2016

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

This material does not contain any components with a section 304 EHS RQ.

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

**California Prop 65** : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

TSCA : On TSCA Inventory

DSL : All components of this product are on the Canadian DSL.

---

**SECTION 16. OTHER INFORMATION****Further information**

Revision Date : 06/10/2016

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.