

Section 1: Identifier

LOTUS F6 Flashing Sealant Butter Grade
Advanced Roofing Technologies

SECTION 2: Hazard(s) Identification

2.1. Classification of the substance or mixture

Acute Tox. 4; H332: Harmful if inhaled.

Skin Irrit. 2; H315: Causes skin irritation.

Eye Irrit. 2; H319: Causes serious eye irritation.

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

Resp. Sens. 1; H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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 (specific target organs: hearing).

2.2. Label elements

Signal Word: Danger

Hazard Statements:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

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

H335: May cause respiratory irritation.

H351: Suspected of causing cancer.

H373: May cause damage to organs through prolonged or repeated exposure.

[Prevention]:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P261: Avoid breathing dust, fume, gas, mist, vapors, or spray.

P264: Wash thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P280: Wear protective gloves, eye protection, face protection.

[Response]:

P302+352: IF ON SKIN: Wash with plenty of soap and water.

P304+312: IF INHALED: Call a POISON CENTER or doctor if you feel unwell.

P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do—continue rinsing.

P308+313: IF exposed or concerned: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

P321: Specific treatment (see information on this label).

P333+313: If skin irritation or rash occurs: Get medical advice/attention.

P337+313: If eye irritation persists: Get medical advice/attention.

P340: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P341: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P342+311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P362: Take off contaminated clothing and wash before reuse.

P363: Wash contaminated clothing before reuse.

[Storage]:

P403+233: Store in a well-ventilated place. Keep container tightly closed.

P405: Store locked up.

[Disposal]:

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

SECTION 3: Composition/Information on Ingredients

Hazardous Ingredients:

Ingredient/Chemical Designation	Weight %	GHS Classification	Notes
Polyoxypropylene glycol (CAS 25322-69-4)	10-25	Not Classified	[1]
Xylene (CAS 1330-20-7)	10-25	Flam. Liq. 3; H226, Acute Tox. 4; H312/H332, Skin Irrit. 2; H315	[1][2]
Oxirane, methyl-polymer with methylenebis[isocyanatobenzene] (CAS 157937-75-2)	10-25	Skin Irrit. 2; H315, Skin Sens. 1; H317, Eye Irrit. 2; H319, Acute Tox. 4; H332, Resp. Sens. 1; H334, STOT SE 3; H335, STOT RE 2; H373, Carc. 2; H351	[1]
Diphenylmethanediisocyanate (CAS 101-68-8)	1-10	Acute Tox. 4; H332, STOT RE 2; H373, Eye Irrit. 2; H319, STOT SE 3; H335, Skin Irrit. 2; H315, Resp. Sens. 1; H334, Skin Sens. 1; H317	[1][2]
Amorphous Silica (CAS 7631-86-9)	1-10	Not Classified	[1][2]
Ethyl Benzene (CAS 100-41-4)	1-10	Flam. Liq. 2; H225, Acute Tox. 4; H332, STOT RE 2; H373, Asp. Tox. 1; H304	[1][2]
Petroleum distillates, hydrotreated light (CAS 64742-47-8)	1-10	Asp. Tox. 1; H304	[1]

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

General Advice: If you feel unwell, seek medical attention.

Inhalation: Remove person to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash affected area thoroughly with soap and water.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids. Seek medical attention.

Ingestion: If swallowed, do not induce vomiting. Rinse mouth with water and seek medical attention.

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

Symptoms: Irritation of eyes, skin, and respiratory system; possible allergic skin reaction or breathing difficulties.

Delayed Effects: May cause sensitization to skin or respiratory system. May cause long-term damage to hearing if exposed to high concentrations.

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

No special treatment required. Seek medical attention if needed for exposure.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Use foam, dry chemical, or carbon dioxide (CO₂) for small fires. Use water fog for larger fires.

5.2. Special hazards arising from the substance or mixture

Combustion may produce toxic fumes, including carbon monoxide, carbon dioxide, and nitrogen oxides.

5.3. Advice for fire-fighters

Wear self-contained breathing apparatus (SCBA) and full protective gear.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment, and emergency procedures

Wear appropriate personal protective equipment (PPE). Ensure proper ventilation. Evacuate non-essential personnel.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid release into the environment.

6.3. Methods and materials for containment and cleaning up

Absorb spill with inert material (e.g., sand, earth), then place in a chemical waste container for disposal. Clean area with soap and water.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practices. Avoid breathing vapor, mist, or spray.

Use in a well-ventilated area.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area, away from incompatible materials like oxidizers, acids, and strong bases.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Xylene (CAS 1330-20-7): TWA: 100 ppm, STEL: 150 ppm

Ethyl Benzene (CAS 100-41-4): TWA: 100 ppm, STEL: 125 ppm

Amorphous Silica (CAS 7631-86-9): TWA: 10 mg/m³

8.2. Exposure controls

Engineering Controls: Ensure adequate ventilation.

Personal Protective Equipment (PPE):

Eye/Face Protection: Safety glasses with side shields or goggles.

Skin Protection: Wear protective gloves (rubber, nitrile) and protective clothing.

Respiratory Protection: Wear a NIOSH-approved respirator if airborne exposure limits are exceeded.

SECTION 9: Physical and Chemical Properties

Appearance: Clear liquid

Odor: Aromatic

Odor Threshold: Not available

pH: Not applicable

Melting Point/Freezing Point: Not available

Boiling Point/Boiling Range: 138-144°C (280-291°F)

Flash Point: 27°C (81°F)

Evaporation Rate: <1 (butyl acetate=1)

Flammability (solid, gas): Not applicable

Upper/Lower Flammability or Explosive Limits: Lower: 1.1%, Upper: 7.0%

Vapor Pressure: 9 mm Hg at 20°C

Vapor Density: >1 (air=1)

Relative Density: 1.04

Solubility in Water: Insoluble

Partition Coefficient (n-octanol/water): Not available

Auto-ignition Temperature: Not available

Decomposition Temperature: Not available

Viscosity: 3500 cps

SECTION 10: Stability and Reactivity

10.1. Reactivity

May polymerize.

10.2. Chemical Stability

Stable under normal circumstances.

10.3. Possibility of Hazardous Reactions

Reaction with water can create CO₂.

10.4. Conditions to Avoid

No data available.

10.5. Incompatible Materials

Contact with water will cause this product to cure. Incompatible with acids, bases, and oxidizers.

10.6. Hazardous Decomposition Products

Will not occur if properly handled and stored.

SECTION 11: Toxicological Information

Acute Toxicity

Exposure to solvent vapor concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver, and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness, and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause the removal of natural fat from the skin resulting in dryness, irritation, and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.

Based on the properties of the isocyanate content of this product, respiratory exposure may cause acute irritation and/or sensitization of the respiratory system, resulting in asthmatic symptoms, wheezing, and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to airborne concentrations of isocyanates well below the occupational exposure limit. Repeated exposure may lead to permanent respiratory disability.

Ingredient Toxicity Data

Ingredient	Oral LD50 (mg/kg)	Skin LD50 (mg/kg)	Inhalation Vapor LC50 (mg/L/4hr)	Inhalation Dust/Mist LC50 (mg/L/4hr)	Inhalation Gas LC50 (ppm)
Polyoxypropylene glycol (CAS 25322-69-4)	2,000.00 (Rat - Category: 4)	No data available	No data available	No data available	No data available
Xylene (CAS 1330-20-7)	4,299.00 (Rat - Category: 5)	1,548.00 (Rabbit - Category: 4)	No data available	20.00 (Rat - Category: NA)	5,000.00 (Rat - Category: 4)
Oxirane, methyl-, polymer with 1,1'-methylenebis[isocyanatobenzene] (CAS 157937-75-2)	No data available	No data available	No data available	No data available	No data available
Diphenylmethanediisocyanate (CAS 101-68-8)	4,700.00 (Rat - Category: 5)	No data available	No data available	No data available	No data available
Amorphous Silica (CAS 7631-86-9)	5,110.00 (Rat - Category: NA)	5,000.00 (Rabbit - Category: 5)	No data available	No data available	No data available
Aluminum Hydroxide (CAS 21645-51-2)	5,000.00 (Rat - Category: 5)	No data available	No data available	No data available	No data available
Polymeric Diphenylmethane Diisocyanate (CAS 9016-87-9)	49,000.00 (Rat - Category: NA)	9,400.00 (Rabbit - Category: NA)	No data available	No data available	No data available
Ethyl Benzene (CAS 100-41-4)	3,500.00 (Rat - Category: 5)	15,433.00 (Rabbit - Category: NA)	17.20 (Rat - Category: 4)	No data available	4,000.00 (Rat - Category: NA)
Petroleum Distillates, Hydrotreated Light (CAS 64742-47-8)	> 5,000.00 (Rat - Category: NA)	> 2,000.00 (Rabbit - Category: 5)	No data available	No data available	No data available

SECTION 12: Ecological Information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical-specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 Fish (mg/l)	48 hr EC50 Crustacea (mg/l)	ErC50 Algae (mg/l)
Polyoxypropylene glycol (CAS 25322-69-4)	650.00 (Menidia beryllina)	Not Available	Not Available
Xylene (CAS 1330-20-7)	3.30 (Oncorhynchus mykiss)	8.50 (Palaemonetes pugio)	100.00 (72 hr) (Chlorococcales)
Diphenylmethanediisocyanate (CAS 101-68-8)	Not Available	129.70 (Daphnia magna)	Not Available
Amorphous Silica (CAS 7631-86-9)	10,000.00 (Danio rerio)	10,000.00 (Daphnia magna)	10,000.00 (72 hr) (Scenedesmus subspicatus)

SECTION 13: Disposal Considerations

13.1. Waste Treatment Methods

Observe all federal, state, and local regulations when disposing of this substance.

SECTION 14: Transport Information

UN Number	UN Proper Shipping Name	Transport Hazard Class(es)	Packing Group	Environmental Hazards
UN1263	Paint	DOT Hazard Class: 3	III	IMDG Marine Pollutant: No
UN1263	Paint	IMDG: 3	III	
DOT:	Flammable Liquid	Transport: Flammable Liquid	Packing Group III	

SECTION 15: Regulatory Information

15.1. U.S. Federal Regulations

SARA Section 311/312 Hazard Categories:

Immediate (acute) health hazard

Delayed (chronic) health hazard

Fire hazard

SARA Section 313:

This product contains the following chemicals subject to reporting requirements:

Xylene (CAS 1330-20-7)

Ethylbenzene (CAS 100-41-4)

Toxic Substances Control Act (TSCA) Inventory:

All components of this product are either listed or exempt from listing on the TSCA inventory.

Clean Water Act (CWA) - Hazardous Substances:

This product contains the following chemicals that are subject to reporting under the Clean Water Act:

Xylene (CAS 1330-20-7)

Clean Air Act (CAA):

The following chemicals are listed under the Clean Air Act as hazardous air pollutants (HAPs):

Xylene (CAS 1330-20-7)

Ethylbenzene (CAS 100-41-4)

OSHA Process Safety Management (PSM):

This product does not contain any chemicals regulated under the OSHA Process Safety Management (PSM) standard.

California Proposition 65:

WARNING: This product can expose you to chemicals including Xylene, Ethylbenzene, and Toluene, which are known to the state of California to cause cancer, birth defects, or other reproductive harm.

SECTION 16: Other Information

16.1. Hazardous Material Information System (HMIS) Rating

Health: 2 (Moderate)

Flammability: 3 (High)

Reactivity: 1 (Slight)

16.2. National Fire Protection Association (NFPA) Rating

Health: 2 (Moderate)

Flammability: 3 (High)

Instability: 1 (Slight)

16.3. Other Information:

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The information provided in this Safety Data Sheet is based on data believed to be accurate at the time of preparation. However, no warranty is made regarding the accuracy or completeness of the information, and no liability is assumed by the manufacturer, supplier, or distributor for any loss or damage resulting from the use or reliance on this data.



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