



Carlisle Spray Foam Insulation Safety Data Sheet

1. Identification of Substance:

Product Name: SealTite PRO HFO

Supplier Identification:

Carlisle Spray Foam Insulation

Telephone:

(770) 607-0755

Address:

100 Enterprise Dr.
Cartersville, GA 30120

24-Hr. Emergency Phone Number:

CHEMTREC (800) 424-9300
INTERNATIONAL: +1-(703) 527-3887

Product Use: Polyurethane polyol component

2. Hazards Identification:

GHS Ratings:

Skin corrosive	2	Reversible adverse effects in dermal tissue, Draize score: \geq 2.3 < 4.0 or persistent inflammation
Eye corrosive	2A	Eye irritant: Subcategory 2A, Reversible in 21 days
Reproductive toxin	1B	Presumed, Based on experimental animals
Organ toxin repeated exposure	2	Presumed to be harmful to human health- Animal studies with significant toxic effects relevant to humans at generally moderate exposure (guidance)- Human evidence in exceptional cases

GHS Hazards

H315	Causes skin irritation
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P260	Do not breathe dust/fume/gas/mist/vapors/spray
P264	Wash hands thoroughly after handling
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P314	Get Medical advice/attention if you feel unwell
P321	Specific treatment is urgent (see Section 4 First Aid measures)
P362	Take off contaminated clothing and wash before reuse
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P332+P313	If skin irritation occurs: Get medical advice/attention
P337+P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up

Signal Word: Danger**Acute Toxicity:****Eyes:** Irritating to eyes.**Skin:** Irritating to skin.**Inhalation:** Not expected to be a route of exposure.**Ingestion:** Harmful if swallowed. Consult physician.**Chronic Effects:** Possible harmful target organ effects**3. Composition/Data on Components:**

Chemical Name	CAS number	Weight Concentration %
2-Propanol, 1-chloro-, phosphate (3:1)	13674-84-5	10.00% - 20.00%
(E)-1-Chloro-3,3,3-trifluoroprop-1-ene	102687-65-0	5.00% - 10.00%
Oxirane, 2-methyl-, polymer with oxirane, ether with 2,6-bis[[bis(2-hydroxyethyl)amino]methyl]-4-branched	940912-28-7	1.00% - 5.00%
Diethylene glycol	111-46-6	1.00% - 5.00%
2-Butoxyethanol	111-76-2	1.00% - 5.00%
Amine Catalyst	Trade Secret	1.00% - 5.00%
Ethylene glycol	107-21-1	1.00% - 5.00%
Butanedioic acid	110-15-6	1.00% - 5.00%
Triethylene glycol	112-27-6	1.00% - 5.00%

4. First Aid Measures:**Inhalation:** If inhaled and symptoms ensue, move to fresh air. If breathing is difficult, give oxygen.**After Eye Contact:** Rinse opened eye for at least 15 minutes under running water. Remove contact lenses if present and easy to do so, and continue rinsing. If irritation persists, contact physician**After Skin Contact:** Clean affected area with soap and plenty of water.**After Swallowing:** Consult physician.

Notes to Physician: Treat symptomatically.

5. Fire Fighting Measures:

Flash Point: 143 C (289 F)

LEL: N/A

UEL: N/A

Upper and Lower Explosive Limits listed if known.

Suitable Extinguishing Agents: Water spray, CO2, Foam, Dry chemical.

Information about Protection against Explosions and Fires: Keep away from flames and sources of heat. Closed containers may rupture when exposed to extreme heat.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, oxides of phosphorus, hydrocarbons, traces of HCN, hydrogen chloride gas, hydrogen fluoride.

Protective Equipment: Firefighters should wear a pressure demand self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures:

Person-Related Safety Precautions: Use appropriate personal protective equipment during clean up. Evacuate and keep unnecessary people out of spill area. Avoid contact with skin and eyes.

Measures for Environmental Protection: Cover and contain spill with absorbent material. Collect for proper disposal according to local, state, and federal regulations.

Small Spills: Absorb with earth, sand or other absorbent material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece) clean surface thoroughly to remove residual contamination.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use an absorbent material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

7. Handling and Storage:

Information for Safe Handling: Avoid contact with eyes, skin, or inhalation.

Storage Requirements: Store in dry, well-ventilated area. Keep containers tightly closed. Store between 50°F-80°F. Material may settle.

Regulatory Requirements: Obey all local, state, and federal requirements.

8. Exposure Controls and Personal Protection:

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
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2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	Not Established	Not Established	Not Established
(E)-1-Chloro-3,3,3-trifluoroprop-1-ene 102687-65-0	Not Established	Not Established	WEEL:OARS - Workplace Environmental Exposure Level (WEEL) Guides 800 ppm
Oxirane, 2-methyl-, polymer with oxirane, ether with 2,6-bis[[bis(2-hydroxyethyl)amino]methyl]-4-branched nonylphenol 940912-28-7	Not Established	Not Established	Not Established
Diethylene glycol 111-46-6	Not Established	Not Established	Not Established
2-Butoxyethanol 111-76-2	50 ppm TWA; 240 mg/m3 TWA	20 ppm TWA	NIOSH: 5 ppm TWA; 24 mg/m3 TWA
Amine Catalyst Trade Secret	Not Established	Not Established	Not Established
Ethylene glycol 107-21-1	50 ppm Ceiling	100 mg/m3 Ceiling (aerosol only)	Not Established
Butanedioic acid 110-15-6	Not Established	Not Established	Not Established
Triethylene glycol 112-27-6	Not Established	Not Established	Not Established

Engineering Controls: No specific measures required if proper PPE precautions are followed.

General Protective and Hygienic Measures: Usual precautionary measures should be adhered to when handling chemicals.

Respiratory Protection: In spray applications, an organic vapor/particulate respirator or air supplied unit is necessary.

Protection of Hands: Protective chemical resistant gloves.

Eye Protection: Chemical resistant goggles must be worn.

Body Protection: Protective work clothing. Launder separately.

Contaminated Gear: Observe local requirements. Dispose of in accordance with local/state/federal regulations.

9. Physical and Chemical Properties:

Physical properties listed where known.

Appearance: Amber liquid Vapor Pressure: N/A Vapor Density: N/A Specific Gravity 1.21 Freezing point: N/A	Odor: Amine odor Odor threshold: N/A pH: N/A Melting point: N/A Solubility: N/A
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Boiling range: 19 - 342°C Evaporation rate: N/A Explosive Limits: N/A Autoignition temperature: 229°C	Flash point: 289°F, 143°C Flammability: N/A Partition coefficient N/A (n-octanol/water): Decomposition temperature: N/A
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10. Stability and Reactivity:

Chemical Incompatible Materials: Avoid contact with isocyanates and strong oxidizing agents.

Hazardous Polymerization: Not expected to occur.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, oxides of phosphorus, hydrocarbons, traces of HCN, hydrogen chloride gas, hydrogen fluoride

11. Toxicological Information:

Mixture Toxicity

Oral Toxicity LD50: 2,817mg/kg

Inhalation Toxicity LC50: 24mg/L

Component Toxicity

13674-84-5	2-Propanol, 1-chloro-, phosphate (3:1)	Oral LD50: 500 mg/kg (Rat) Dermal LD50: 1,230 mg/kg (Rabbit) Inhalation LC50: 5 mg/L (Rat)
111-46-6	Diethylene glycol	Oral LD50: 1,120 mg/kg (Rat) Dermal LD50: 5,000 mg/kg (Rabbit) Inhalation LC50: 5 mg/L (Rat)
111-76-2	2-Butoxyethanol	Oral LD50: 1,414 mg/kg (Rat) Dermal LD50: 2,000 mg/kg (Rabbit) Inhalation LC50: 3 mg/L (Rat)
107-21-1	Ethylene glycol	Oral LD50: 2,000 mg/kg (Rat) Dermal LD50: 3,500 mg/kg (Rat) Inhalation LC50: 3 mg/kg (Rat)

Individual Toxicity Values Listed if Known

Acute Toxicity:

Eyes: Irritating to eyes.

Skin: Irritating to skin.

Inhalation: Not expected to be a route of exposure.

Ingestion: Harmful if swallowed. Consult physician.

Chronic Effects: Possible harmful target organ effects.

Routes of Entry: Ingestion, skin contact, eye contact.

Target Organs: Skin, eyes, reproductive system, kidneys

Chemicals with Known or Possible Carcinogenic Effects:

<u>CAS Number</u>	<u>Description</u>	<u>% Weight</u>	<u>Carcinogen Rating</u>
None			None

12. Ecological Information:

General Information: Based on experience, no adverse effects are to be expected if correct disposal procedures have been followed as indicated in section 13.

Individual component ecotoxicity listed if known.

Component Ecotoxicity

2-Propanol, 1-chloro-, phosphate (3:1)	96 Hr LC50 Brachydanio rerio: 56.2 mg/L [static]; 96 Hr LC50 Pimephales promelas: 98 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 30 mg/L [static] 48 Hr EC50 Daphnia magna: 63 mg/L 72 Hr EC50 Desmodesmus subspicatus: 45 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 4 mg/L
(E)-1-Chloro-3,3,3-trifluoroprop-1-ene	96 hr LC50 Oncorhynchus mykiss (rainbow trout): 38 mg/l 48 hr EC50 Daphnia magna: 82 mg/l 72 hr EC50 Algae: 107 mg/l
Diethylene glycol	96 Hr LC50 Pimephales promelas: 75200 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 84000 mg/L
2-Butoxyethanol	96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 2950 mg/L 48 Hr EC50 Daphnia magna: >1000 mg/L
Amine Catalyst	EC50: 100 mg/L
Ethylene glycol	96 Hr LC50 Oncorhynchus mykiss: 41000 mg/L; 96 Hr LC50 Oncorhynchus mykiss: 14 - 18 mL/L [static]; 96 Hr LC50 Lepomis macrochirus: 27540 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 40761 mg/L [static]; 96 Hr LC50 Pimephales promelas: 40000 - 60000 mg/L [static]; 96 Hr LC50 Poecilia reticulata: 16000 mg/L [static] 48 Hr EC50 Daphnia magna: 46300 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 6500 - 13000 mg/L
Triethylene glycol	96 Hr LC50 Pimephales promelas: 56200 - 63700 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 10000 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 61000 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 42426 mg/L

13. Disposal Considerations:

Recommendation: Observe local requirements. Dispose of in accordance with local/state/federal environmental control laws.

Empty Container Precautions: Empty containers retain product residue; observe all precautions for product. Do not heat or cut empty container with electric or gas torch because highly toxic vapors and gases are formed. Do not reuse without thorough commercial cleaning and reconditioning. If container is to be disposed, ensure all product residues are removed and container is empty prior to disposal. Contact the Reusable Industrial Packaging Association (RIPA) at 301-577-3786 to find a drum re-conditioner in North America (www.reusablepackaging.org).

14. Transport Information:

DOT Regulated Components:

This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods unless specifically cited below:

Agency Proper Shipping Name
None

UN Number Packing Group Hazard Class

15. Regulatory Information:

OSHA HAZARD COMMUNICATION STANDARD: This material is classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

SARA 311/312 Hazard Categories: Acute health hazard, chronic health hazard.

WARNING: This product can expose you to chemicals listed below, which are known to the State of California to cause cancer, birth defects, or reproductive harm. For more information, visit www.P65Warnings.ca.gov

Diethanolamine 111-42-2 < 1 PPM CARC
Formaldehyde 50-00-0 < 1 PPM CARC
Ethylene glycol 107-21-1 1 to 5 % DEVELOPMENTAL

Massachusetts Right To Know List:

Ethylene glycol 107-21-1 1 to 5 %
2-Butoxyethanol 111-76-2 1 to 5 %

New Jersey Right To Know List:

Ethylene glycol 107-21-1 1 to 5 %
2-Butoxyethanol 111-76-2 1 to 5 %
(E)-1-Chloro-3,3,3-trifluoroprop-1-ene 102687-65-0 5 to 10 %

Pennsylvania Right To Know List:

Triethylene glycol 112-27-6 1 to 5 %
Ethylene glycol 107-21-1 1 to 5 %
2-Butoxyethanol 111-76-2 1 to 5 %
Diethylene glycol 111-46-6 1 to 5 %
(E)-1-Chloro-3,3,3-trifluoroprop-1-ene 102687-65-0 5 to 10 %

SARA 302 Extremely Hazardous Substances:

- None

Chemicals subject to SARA 313 Reporting:

Ethylene glycol 107-21-1 1 to 5 % Emissions
2-Butoxyethanol 111-76-2 1 to 5 % Emissions

<u>Country</u>	<u>Regulation</u>	<u>All Components Listed</u>
Canada	Canada DSL	Yes
US	Toxic Substances Control Act	Yes

16. Other Information:

Safety Data Sheet issued by Product Safety Department

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of Carlisle Spray Foam Insulation. The data on these sheets relates only to the specific material designated herein. Carlisle Spray Foam Insulation assumes no legal responsibility for use or reliance upon this data. It is the user's responsibility to ensure that their activities comply with federal, state, or local laws.

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Reviewer Revision 2