

Material Safety Data Sheet

CertainTeed

HEALTH	* 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

MSDS Number: CT 10096-2
DATE PREPARED: March 7, 2008

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product/Trade Name:
CertaSpray Foam (Closed Cell)

Chemical Name: Not Applicable

CAS #: Not Applicable

Common Name: CertaSpray-B (Closed Cell)

Product Use: CertaSpray closed cell spray foam is a two component HFC-blown spray foam. When CertaSpray-A is mixed with CertaSpray-BCC under pressure in a 1:1 volumetric ratio, it expands into a high density closed-cell foam.

MANUFACTURER INFORMATION:

CertainTeed Corporation
P.O. Box 860
Valley Forge, PA 19482-0101

TELEPHONE AND E-MAIL:

(610) 341-7000 9 AM – 5 PM
(Eastern Time – USA)
CertainTeed-EHS@saint-gobain.com

EMERGENCY TELEPHONE: CHEMTREC (800) 424-9300

2. HAZARD IDENTIFICATION

Emergency Overview

This is a liquid product.

Harmful if absorbed through the skin. Causes severe eye irritation. Causes respiratory tract and skin irritation. Contains a material which may cause birth defects. Contains a material which may cause damage to blood, cardiovascular system, kidneys, central nervous system and liver. May be harmful if swallowed.

Summary

Do not ingest. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Routes of Exposure: Inhalation, skin, and eye contact.

Potential Health Effects: Eyes

Avoid contact with eyes. Causes sever irritation.

Potential Health Effects: Skin

Avoid contact with skin. Harmful if absorbed through the skin.

Potential Health Effects: Ingestion

Do not ingest. Harmful if swallowed.

Potential Health Effects: Inhalation

Avoid breathing vapor or mist.

Medical Conditions Aggravated by Exposure: None.

HMIS Ratings: Health: 2* Fire: 1 Physical Hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Component	Percent
Not Available	Polyester Polyol	30-60
Not Available	Polyether Polyol	10-30
460-73-1	1,1,1,3,3-Pentafluoropropane	5-10
78-40-0	Triethyl phosphate	1-5
13674-84-5	Tris(1-chloro-2-propyl) phosphate (TCPP)	1-5
34354-45-5	Diethanolomine	1-5
108-01-0	Dimethylaminoethanol	0.5-1.5
3855-32-1	Pentamethyldipropylenetriamine	0.5-1.5
107-21-1	Ethylene glycol	0.1-1

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

This product is a controlled product under Canadian WHMIS regulations.

4. FIRST AID MEASURES

First Aid: Eyes

Immediately flush eyes with large amounts of water for at least 15 minutes. Seek medical attention at once.

First Aid: Skin

Remove contaminated clothing. Wash exposed areas with soap and water for at least 15 minutes. If irritation develops or persists, seek medical attention. Contaminated leather articles, including shoes, that cannot be decontaminated should be discarded. Launder contaminated clothing before reuse. Do not take clothing home to be laundered.

First Aid: Ingestion

If the product is ingested, seek immediate medical attention or advice. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth to a victim who is unconscious or is having convulsions. Have victim rinse mouth thoroughly with water.

First Aid: Inhalation

If the product is inhaled, remove the affected person to fresh air. If breathing is difficult, administer oxygen and/or artificial respiration if necessary and seek medical attention.

Notes to Physician:

Adrenalin and similar sympathomimetic drugs should be avoided following exposure as cardiac arrhythmia may result with possible subsequent cardiac arrest. Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours as delayed pulmonary oedema may develop.

5. FIRE FIGHTING MEASURES**General Fire Hazards:**

See Section 9 for Flammability Properties. Cool containers with water spray.

Hazardous Combustion Products:

Combustion products may include carbon oxides, nitrogen oxides, halogenated compounds, phosphates, hydrogen chloride and hydrogen fluoride. Carbon Monoxide is the primary combustion byproduct of concern.

Extinguishing Media:

Use methods for the surrounding fire.

Fire Fighting Equipment/Instructions

Standard fire fighting protective equipment is recommended, including full-face, self-contained breathing apparatus and impervious protective clothing.

NFPA Ratings: Health: 2 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

6. ACCIDENTAL RELEASE MEASURES**Containment Procedures:**

Wear appropriate personal protective equipment. Stop the flow of material, if this can be done without risk.

Clean-Up Procedures:

Ventilate the contaminated area. Absorb spilled material with inert absorbent (sand, earth). Shovel material into an appropriate container for disposal or recovery. Dispose of in accordance with federal, state and local regulations in a permitted waste management facility.

Evacuation Procedures:

Evacuate the area promptly. Keep upwind of the spilled material and isolate exposure.

Special Procedures:

Avoid inhalation of vapors or mists. Surfaces may become slippery after spillage.

7. HANDLING AND STORAGE

Handling Procedures:

Avoid contact with skin and eyes. Keep container closed. Use this product with adequate ventilation. Avoid breathing vapors or mists of this product. Wash thoroughly after handling. Do not ingest.

Storage Procedures:

It is recommended that the product drums should be stored between 50–100°F. Keep containers tightly closed. Keep container in a dry, well-ventilated area protected from freezing, rain, direct sunlight and excess heat. The storage life of chemicals is 3 months. Do not store material near food, feed or drinking water.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

A: Component Exposure Limits

Ethylene glycol (107-21-1)

ACGIH: 100 mg/m³ Ceiling (aerosol only)

Engineering Controls:

Provide adequate local exhaust ventilation to maintain worker exposures below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: General

Use appropriate personal protective equipment when handling this product. Eye wash fountain and emergency showers are recommended in areas where this product may be handled/used.

Personal Protective Equipment: Eyes/Face

Wear chemical goggles; add face shield (if splashing is possible).

Personal Protective Equipment: Skin

Wear impervious gloves, such as neoprene, nitrile rubber, or butyl rubber at all times when handling this product. Thin latex disposable gloves should be avoided for repeated or long term use. Work clothing sufficient to prevent all skin contact should be worn.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent build-up of vapors, appropriate NIOSH-approved (or equivalent) respiratory protection must be provided with NIOSH-approved (or equivalent) cartridges for protection against organic vapors and a P100 (HEPA) particulate filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid.	Odor:	Not Available.
Physical State:	Liquid.	pH:	Not Available.
Vapor Pressure:	Not Available.	Vapor Density:	Not Available.
Boiling Point:	Not Available.	Melting Point:	Not Available.
Solubility (H2O):	Not Available.	Specific Gravity:	1.14 g/ml at 77 °F (25°C)
Flash Point:	>230°F (110°C)	Flash Point Method:	Closed cup.
Lower Flammability Limit:	Not Available.	Upper Flammability Limit:	Not Available.
Auto Ignition Temp.:	Not Available.	Burning Rate:	Not Available.
Flame Spread Index, 4 inch	<25	Flame Spread Method	ASTM E84
Smoke Index, 4 inch	<450	Smoke Index Method	ASTM E84

10. CHEMICAL STABILITY AND REACTIVITY INFORMATION

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None identified

Incompatibility:
 Reactive or incompatible with oxidizing materials, organic materials, metals, acids and alkalis.

Hazardous Decomposition:
 May include carbon oxides, nitrogen oxides, halogenated compounds, phosphates, hydrogen chloride, and hydrogen fluoride.

Possibility of Hazardous Reactions: None identified.

11. TOXICOLOGICAL INFORMATION

Acute Dose Effects

A: General Product Information:
 Harmful if absorbed through the skin. Causes eye irritation. Causes respiratory tract and skin irritation.

- B: Component Analysis - LD50/LC50**
- Triethyl phosphate (78-40-0)**
 Oral LD50 Rat: 1311 mg/kg
 - Tris(1-chloro-2-propyl) phosphate (TCPP) (13674-84-5)**
 Inhalation LC50 Rat: 5 mg/L/4H; Inhalation LC50 Rat: >17.8 mg/L/1H; Oral LD50 Rat: 500 mg/kg; Dermal LD50 Rat: >5000 mg/kg; Dermal LD50 Rabbit: 1230 mg/kg
 - Dimethylaminoethanol (108-01-0)**
 Inhalation LC50 Rat: 6.1 mg/L/4H; Inhalation LC50 Rat: 1641 ppm/4H; Oral LD50 Rat: 1803 mg/kg; Dermal LD50 Rabbit: 1370 µL/kg
 - Ethylene glycol (107-21-1)**
 Oral LD50 Rat: 4000 mg/kg; Dermal LD50 Rabbit: 9530 µL/kg

C: Repeated Dose Effects:

Contains a material which may cause birth defects. Contains a material which may cause damage to blood, cardiovascular system, kidneys, central nervous system and liver.

Carcinogenicity

A: General Product Information: None identified.

B: Ethylene glycol (107-21-1)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental Effects: Contains a material which can cause birth defects.

12. ECOLOGICAL INFORMATION

Ecotoxicity

A: General Product Information:

No information available for this product.

B: Component Analysis – Ecotoxicity – Aquatic Toxicity:

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

Test & Species		Conditions
96 Hr LC50	Brachydanio rerio	56.2 mg/L static
96 Hr LC50	Leuciscus idus	180 mg/L static
96 Hr LC50	Pimephales promelas	98 mg/L static
96 Hr LC50	Poecilia reticulata	30 mg/L static
72 Hr EC50	Scenedesmus subspicatus	45 mg/L
96 Hr EC50	Selenastrum capricornutum	4 mg/L
30 min EC50	Photobacterium phosphoreum	295 mg/L
48 Hr EC50	Daphnia magna	63 mg/L

Dimethylaminoethanol (108-01-0)

Test & Species		Conditions
96 Hr LC50	Pimephales promelas	81 mg/L [static]
72 Hr EC50	Scenedesmus subspicatus	35 mg/L
48 Hr EC50	Daphnia magna	98.77 mg/L

Ethylene glycol (107-21-1)

Test & Species		Conditions
96 Hr LC50 Oncorhynchus mykiss	41000 mg/L	
96 Hr LC50 Lepomis macrochirus	27500 mg/L	
96 Hr LC50 Oncorhynchus mykiss	40761 mg/L	static
96 Hr LC50 Pimephales promelas	49000 mg/L	static
96 Hr LC50 Poecilia reticulata	16000 mg/L	static
96 Hr EC50 Selenastrum capricornutum	6500-1300 mg/L	
30 min EC50 Photobacterium phosphoreum	620.0 mg/L	
30 min EC50 Photobacterium phosphoreum	620 mg/L	
16 Hr EC50 Pseudomonas putida	10000 mg/L	
48 Hr EC50 water flea	46300 mg/L	

13. WASTE DISPOSAL CONSIDERATIONS

US EPA Waste Number & Descriptions

A: General Product Information:

Wastes must be tested using methods described in 40 CFR Part 261 to determine if it meets applicable definitions of hazardous wastes. (Check with ChemAdvisor about a general statement of hazardous waste. Compare to Huntsman MSDS, maybe there is nothing else we can say and that's OK too)

B: Component Waste Numbers:

No EPA-listed Waste Numbers are being shown for this product's components.

Disposal Instructions:

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Dispose of waste material according to Federal, State, local and Provincial environmental regulations. See Section 7 for Handling Procedures; see Section 8 for Personal Protective Equipment recommendations.

14. TRANSPORTATION INFORMATION

International Transportation Regulations:

This product is not regulated as a hazardous material by the United States (DOT) or Canadian (TDG) transportation regulations.

15. REGULATORY INFORMATION

US Federal

A: General Product Information:

Components of this product have been checked against the non-confidential TSCA inventory by CAS Registry Number. Components not identified on this non-confidential inventory are either exempt from listing (i.e. polymers, hydrates) or are listed on the confidential inventory as declared by the supplier.

B: CERCLA:

This material contains one or more of the following chemicals required to be identified under CERCLA (40 CFR 302.4).

Ethylene glycol (107-21-1)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Acute Health: Yes **Chronic Health:** Yes **Fire:** No **Pressure:** No **Reactive:** No

State Regulations

A: General Product Information:

Other state regulations may apply. Check individual state requirements.

B: Component Analysis – State:

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Dimethylaminoethanol	108-01-0	No	Yes	No	Yes	Yes	No
Ethylene glycol	107-21-1	Yes	Yes	Yes	Yes	Yes	Yes

C: California Safe Drinking Water and Toxics Enforcement Act (Proposition 65)

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

WARNING! This product contains a chemical known to the state of California to cause cancer.

Canadian WHMIS Information

A: General Product Information:

WHMIS Class D1B, D2A, D2B – Irritating to eyes and skin.

B: Component Analysis - WHMIS IDL:

No components are listed in the WHMIS IDL.

WHMIS Classification:

WHMIS Class D1B, D2A, D2B

Additional Regulatory Information

A: General Product Information: No additional information available.

B: Component Analysis - Inventory

Component	CAS #	TSCA	DSL
1,1,1,3,3-Pentafluoropropane	460-73-1	Yes	No
1,2-Benzenedicarboxylic acid, 3,4,5,6-tetrabromo-, 2-(2-hydroxyethoxy)ethyl 2-hydroxypropyl ester	20566-35-2	Yes	Yes
Triethyl phosphate	78-40-0	Yes	Yes
Tris(1-chloro-2-propyl) phosphate (TCPP)	13674-84-5	Yes	Yes
Diethanolomine	34354-45-5	Yes	No
Dimethylaminoethanol	108-01-0	Yes	Yes
Pentamethyldipropylenetriamine	3855-32-1	Yes	Yes
Ethylene glycol	107-21-1	Yes	Yes

16. ADDITIONAL COMMENTS

Other Information:

Disclaimer: Supplier gives no warranty of merchantability or of fitness for a particular purpose. Any product purchased is sold on the assumption the purchaser will make his own tests to determine the quality and suitability of the product. Supplier expressly disclaims any and all liability for incidental and/or consequential property damage arising out of the use of this product. No information provided shall be deemed to be a recommendation to use any product in conflict with any existing patent rights. Read the Material Safety Data Sheet before handling product.

Acronyms/definitions used in this MSDS:

ACGIH	American Conference of Governmental Industrial Hygienists;
CAS #	Chemical Abstracts Services Number;
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act;
CFR	Code of Federal Regulations;
EPA	Environmental Protection Agency;
HMSIS	Hazardous Material Identification System;
IARC	International Agency for Research on Cancer;
LFL	Lower Flammable Limit;
mg/m ³	Milligrams per cubic meter;
NFPA	National Fire Protection Association;
NIOSH	National Institute for Occupational Safety and Health;
NTP	National Toxicology Program;
OSHA	Occupational Safety and Health Administration;
ppm	Parts per million;
PEL	Permissible Exposure Limit;
REL	Recommended Exposure Limit;
SARA	Superfund Amendments and Reauthorization Act;
RCRA	Resource Conservation and Recovery Act;
Title III	Emergency Planning and Community Right to Know Act; Section 302- Extremely Hazardous Substances; Section 313- Toxic Chemicals;
TLV	Threshold Limit Value;
TWA	Time Weighted Average;
UFL	Upper Flammable Limit.

MSDS History

MSDS Revision Summary:

<u>Date</u>	<u>MSDS No.</u>	<u>Comments</u>
05/21/2007	CT 10096-1	New MSDS
06/15/2007	CT 10096-1	Formatting changes
06/27/2007	CT 10096-1	Additional Property Information
08/31/2007	CT 10096-1	Additional Component Information
09/10/2007	CT 10096-1	Additional to Emergency Overview
03/07/2008	CT 10096-2	Update product name

This is the end of MSDS # CT 10096-2