

Carlisle Roof Foam and Coatings Safety Data Sheet

1. Identification of Substance:

Product Name: Seal-Tek Quick Foam A

Supplier Identification:

Carlisle Roof Foam and Coatings

Address:

100 Enterprise Dr.

Cartersville, GA 30120

Telephone:

(770) 607-0755

24-Hr. Emergency Phone Number:

CHEMTREC (800) 424-9300

INTERNATIONAL: +1-(703) 527-3887

Product Use: Polyurethane isocyanate component

2. Hazards Identification

GHS Ratings:

| Gas under pressure | Compressed | Entirely gaseous at -50°C |
|-------------------------------|--------------|--|
| Inhalation Toxicity | Acute Tox. 4 | Gases>2500+<=5000ppm, Vapors>10+<=20mg/l, Dusts&mists>1+<=5mg/l |
| Skin corrosive | 2 | Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation |
| Eye corrosive | 2B | Mild eye irritant: Subcategory 2B, Reversible in 7 days |
| Respiratory sensitizer | 1 | Respiratory sensitizer |
| Skin sensitizer | 1 | Skin sensitizer |
| Organ toxin single exposure | 3 | Transient target organ effects- Narcotic effects- Respiratory tract irritation |
| 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- Human evidence in exceptional cases |

GHS Hazards

P264

P271

| Contains gas under pressure; may explode if heated |
|---|
| Causes skin irritation |
| May cause an allergic skin reaction |
| Causes eye irritation |
| Harmful if inhaled |
| May cause allergy or asthma symptoms or breathing difficulties if inhaled |
| May cause respiratory irritation |
| May cause drowsiness or dizziness |
| May cause damage to organs through prolonged or repeated exposure |
| |
| Do not breathe dust/fume/gas/mist/vapors/spray |
| Avoid breathing dust/fume/gas/mist/vapors/spray |
| |

Use only outdoors or in a well-ventilated area Contaminated work clothing should not be allowed out of the workplace P272

Wash hands thoroughly after handling

SDS for: Seal-Tek Quick Foam A Page 1 of 8 P280 Wear protective gloves/protective clothing/eye protection/face protection P285 In case of inadequate ventilation wear respiratory protection P312 Call a POISON CENTER or doctor/physician if you feel unwell 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 P363 Wash contaminated clothing before reuse P302+P352 IF ON SKIN: Wash with soap and water P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing P304+P341 IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing P332+P313 If skin irritation occurs: Get medical advice/attention If skin irritation or a rash occurs: Get medical advice/attention P333+P313 P337+P313 Get medical advice/attention Call a POISON CENTER or doctor/physician P342+P311 P405 Store locked up P403+P233 Store in a well ventilated place. Keep container tightly closed P410+P403 Protect from sunlight. Store in a well ventilated place P501 Dispose of contents/container in accordance with existing federal, state, and local environmental control laws.

Signal Word: Danger







Acute Health Effects:

Eves: Severe irritation, tearing, swelling, and possible damage to cornea.

Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.

Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.

Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.

Conditions Aggravated by Exposure: Asthma, respiratory disorders, skin disorders, and eye disorders.

Chronic Health Effects: Isocyanates may cause skin and respiratory sensitivity in some individuals. Sensitized individuals may react to very low levels diisocyanates below the PEL. Sensitized people who continue to work with diisocvanates may develop symptoms sooner after each exposure. Limited evidence of possible carcinogenic effects. Possible other harmful target organ effects.

3. Composition/Data on Components:

| Chemical Name | CAS number | Weight Concentration % | |
|--|------------|------------------------|--|
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8 | 40.00% - 50.00% | |
| Isocyanic acid, polymethylenepolyphenylene ester | 9016-87-9 | 40.00% - 50.00% | |
| Nitrogen | 7727-37-9 | <10.00% | |
| Trans-1,3,3,3-tetrafluoroprop-1-ene | 29118-24-9 | 5.00% - 10.00% | |

4. First Aid Measures:

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After Inhalation: May cause severe irritation to upper respiratory tract and lungs, respiratory sensitization, decreased lung capacity.

Remove from exposure area to fresh air. Administer oxygen or artificial respiration as needed. Obtain medical attention.

After Eve Contact: Rinse opened eve 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: Remove contaminated clothing, Clean affected area with soap and plenty of water, Call a physician if irritation or rash develops.

After Swallowing: Do not induce vomiting. If conscious, give 1 to 2 cups of milk or water to drink. Consult a physician at once.

Notes to Physician: Treat symptomatically. Following severe exposure the patient should be kept under medical observation for a least 48 hours.

5. Fire Fighting Measures:

Flash Point: 230 C (446 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: During the incipient stage of a fire, containers should be kept cool by spraying with water (i.e., water suppression system) on the outside of container. Water spray will help prevent containers from overheating. Use cold-water spray to cool fire-exposed containers to minimize risk of rupture. Large fires can be extinguished with high volumes of water, such as from a fire hose applied from a safe distance. Closed containers may rupture when exposed to extreme heat due to build-up of pressure from thermal degradation and/or carbon dioxide generation.

Section 5 pertains to fire-fighting measures and reactivity is addressed in section 10.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, hydrocarbon, hydrogen fluoride isocyanates, and traces of HCN.

Protective Equipment: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by firefighters.

6. Accidental Release Measures:

Person-Related Safety Precautions: Evacuate all non-essential personnel. Avoid contact with skin. Do not breathe aerosols or vapors.

Measures for Environmental Protection: Cover and contain spill with absorbent material. Place waste in open container. Remove to well ventilated area and dilute with ammonia solution (water 90%, concentrated ammonia 8%, detergent 2%). 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.

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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: Do not breathe fumes, vapors or mists. Use only with adequate ventilation. Avoid contact with skin or eyes. Immediately report spills or leaks.

Storage Requirements: Store containers in a dry, well ventilated area. Keep containers tightly closed and prevent moisture contamination. Do not re-seal the container if contamination is suspected. Store between 60°F and 100°F.

Regulatory Requirements: Store according to all local, state, and federal regulations.

8. Exposure Controls and Personal Protection:

| Chemical Name / CAS No. OSHA Exposure Limits | | ACGIH Exposure Limits | Other Exposure Limits | |
|---|--|---|---|--|
| 4,4'-Methylenediphenyl diisocyanate 101-68-8 | 0.02 ppm Ceiling; 0.2 mg/m3 Ceiling | 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate (MDI)) | NIOSH: 0.005 ppm TWA (listed under Methylene bisphenyl isocyanate); 0.05 mg/m3 TWA 0.020 ppm Ceiling (10 min); 0.2 mg/m3 Ceiling (10 min) | |
| Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 | Not Established | Not Established | Not Established | |
| Nitrogen 7727-37-9 | Not Established | Not Established | Not Established | |
| Trans-1,3,3,3-tetrafluoroprop- I-ene 29118-24-9 | | Not Established | Not Established | |

Engineering Controls: Use local exhaust ventilation to maintain airborne concentrations below the TLV, especially if heating or spraying. Use only in a well-ventilated area to keep vapors below exposure limits. Use local exhaust ventilation if necessary.

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

Personal Protective Equipment:

Respiratory Protection: Do not inhale vapors. Use NIOSH approved respiratory protection if TLV/PEL is

exceeded. Do not enter storage area unless adequately ventilated. **Hand Protection:** Protective butyl rubber or nitrile rubber gloves.

Eye Protection: Chemical safety goggles.

Body Protection: Impervious protective work clothing. Launder separately.

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

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9. Physical and Chemical Properties:

Physical properties listed where known.

Appearance: Brown liquid

Vapor Pressure: N/A

Vapor Density: N/A

Specific Gravity 1.20

Melting point: N/A

Freezing point: N/A

Solubility: N/A

Boiling range: N/A Flash point: 446°F,230°C Evaporation rate: N/A Flammability: N/A

Odor: Musty

Explosive Limits: N/A

Partition coefficient N/A

(n-octanol/water):

Autoignition temperature: 240°C Decomposition temperature: N/A

10. Stability and Reactivity:

Chemical Incompatible Materials: MDI will react with a wide range of common chemicals. During use of this product in the work environment, protect the product from contamination such as inadvertent contact with water, amines, strong bases and alcohols. For example, allowing water inside an MDI container will lead to the generation of carbon dioxide gas and result in the development of excess pressure if the container is tightly re-sealed.

Hazardous Polymerization: Not expected to occur under normal conditions.

Dangerous Products of Decomposition: Oxides of carbon, oxides of nitrogen, hydrocarbons, hydrogen fluoride isocyanates, and traces of HCN.

11. Toxicological Information:

Mixture Toxicity

Inhalation Toxicity LC50: 2mg/L

Component Toxicity

101-68-8 4,4'-Methylenediphenyl diisocyanate

Dermal LD50: 1 mg/L (Rat) Inhalation LC50: 369 mg/m3 (Rat)

9016-87-9 Isocyanic acid, polymethylenepolyphenylene ester

Dermal LD50: 490 mg/L (Rat) Inhalation LC50: 490 mg/L (Rat)

Individual Toxicity Values Listed if Known

Acute Toxicity:

Eyes: Severe irritation, tearing, swelling, and possible damage to cornea.

Skin: Irritation, redness, swelling, skin sensitization, rash, scaling, and blistering.

Inhalation: Mucous membrane and respiratory tract irritation, tightness of chest, isocyanate sensitization.

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Ingestion: Irritating and corrosive to mouth, stomach, and digestive tract.

Chronic Effects: Isocyanates may cause skin and respiratory sensitivity in some individuals. Sensitized individuals may react to very low levels diisocyanates below the PEL. Sensitized people who continue to work with diisocyanates may develop symptoms sooner after each exposure. Limited evidence of possible carcinogenic effects.

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

Target Organs: Respiratory tract, eyes, skin.

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

4,4'-Methylenediphenyl 24 Hr LC50 Brachydanio rerio: >500 mg/L diisocyanate 24 Hr EC50 Daphnia magna: >500 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:

When in individual containers of less than 1 Liter, this material ships as non-regulated. Containers above 1 Liter ship as:

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| Agency | Proper Shipping Name | UN Number | Packing Group | Hazard Class |
|---------------|--|------------------|----------------------|---------------------|
| DOT | Chemical Under Pressure n.o.s. (Hydrofluoroolefin, nitrogen) | 3500 | N/A | 2.2 |
| ICAO/IAT | Chemical Under Pressure n.o.s. (Hydrofluoroolefin, nitrogen) | 3500 | N/A | 2.2 |
| IMDG | Chemical Under Pressure n.o.s. (Hydrofluoroolefin, nitrogen) | 3500 | N/A | 2.2 |

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

- None

Massachusetts Right To Know List:

4,4'-Methylenediphenyl diisocyanate 101-68-8 40 to 50 %

New Jersey Right To Know List:

Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 40 to 50 %

Pennsylvania Right To Know List:

4,4'-Methylenediphenyl diisocyanate 101-68-8 40 to 50 %

SARA 302 Extremely Hazardous Substances:

- None

Chemicals subject to SARA 313 Reporting:

4,4'-Methylenediphenyl diisocyanate 101-68-8 40 to 50 % Emissions Isocyanic acid, polymethylenepolyphenylene ester 9016-87-9 40 to 50 % Emissions

Country Regulation **All Components Listed**

Canada Canada DSL Yes US Toxic Substances Control Act Yes

16. Other Information:

Safety Data Sheet issued by Product Safety Department

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