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SAFETY DATA SHEET

1. Identification

Material name: TREMfloor UC FCUV Hardener B 9.6# 2/cs

Material: 102T FCUV2 B

Recommended use and restriction on use

Recommended use: Coatings Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco Canadian Sealants 220 Wicksteed Ave Toronto ON M4H 1G7 CA

Contact person: EH&S Department **Telephone:** 1-800-263-6046

Emergency telephone number: 1-800-424-9300 (US); 1-613-996-6666 (Canada)

2. Hazard(s) identification

Hazard Classification

Health Hazards

Acute toxicity (Inhalation - dust and Category 4

mist)

Skin Corrosion/Irritation Category 2
Respiratory sensitizer Category 1
Skin sensitizer Category 1
Specific Target Organ Toxicity - Category 3¹

Single Exposure

Target Organs

1. Respiratory tract irritation.

Unknown toxicity - Health

Acute toxicity, inhalation, vapor 100 % Acute toxicity, inhalation, dust 1.09 %

or mist

Label Elements

Hazard Symbol:



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Signal Word: Danger

Hazard Statement: Harmful if inhaled.

Causes skin irritation.

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

May cause an allergic skin reaction. May cause respiratory irritation.

Precautionary Statements

Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and

any exposed skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of

the workplace. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear

respiratory protection.

Response: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated

clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked

up.

Disposal: Dispose of contents/ container to an approved facility in accordance with

local, regional, national and international regulations.

Hazard(s) not otherwise

classified (HNOC):

None.

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* |
|----------------------------------|------------|-------------------------|
| Homopolymer of HDI | 28182-81-2 | 50 - <100% |
| Tosyl isocyanate | 4083-64-1 | 0.1 - <1% |
| Hexamethylene diisocyanate (HDI) | 822-06-0 | 0.1 - <0.5% |

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Description of necessary first-aid measures



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Inhalation: Call a physician or poison control center immediately. If breathing

stops, provide artificial respiration. Move to fresh air, If breathing is

difficult, give oxygen.

Skin Contact: Get medical attention. Destroy or thoroughly clean contaminated

shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic

skin reaction develops, get medical attention.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. If easy

to do, remove contact lenses. Get medical attention.

Ingestion: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Personal Protection for First-

aid Responders:

Self-contained breathing apparatus and full protective clothing must

be worn in case of fire.

Most important symptoms/effects, acute and delayed

Symptoms: Prolonged or repeated contact with skin may cause redness, itching,

irritation and eczema/chapping. Respiratory tract irritation.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire-fighters

Special fire-fighting

procedures:

No data available.

Special protective equipment

for fire-fighters:

Self-contained breathing apparatus and full protective clothing must be

worn in case of fire.

6. Accidental release measures



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Personal precautions, protective equipment and emergency procedures:

Ventilate closed spaces before entering them. Evacuate area. See Section 8 of the SDS for Personal Protective Equipment, Keep upwind, Keep unauthorized personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

Accidental release measures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

Methods and material for containment and cleaning

Environmental Precautions:

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical

ventilation or local exhaust ventilation may be required.

Safe handling advice:

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing.

Contact avoidance measures:

No data available.

Hygiene measures:

Observe good industrial hygiene practices. Wash contaminated clothing before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should

not be allowed out of the workplace.

Storage

Safe storage conditions:

Store away from incompatible materials. Store in original tightly closed

container.

Safe packaging materials:

No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Туре | Exposure Limit Values | Source | |
|----------------------------------|------|-----------------------|---|--|
| Hexamethylene diisocyanate (HDI) | TWA | 0.005 ppm | US. ACGIH Threshold Limit Values, as amended (2008) | |



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| Chemical name | Туре | Exposure Limit Values | Source |
|----------------------------------|---------|-----------------------|--|
| Hexamethylene diisocyanate (HDI) | TWA | 0.005 ppm | Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007) |
| Hexamethylene diisocyanate (HDI) | TWA | 0.005 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015) |
| Hexamethylene diisocyanate (HDI) | TWA | 0.005 ppm 0.034 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017) |
| | CEILING | 0.01 ppm | Canada. British Columbia OELs: Table of Exposure Limits for Chemical Biological Substances (Workers Compensation Board); as amended (07 2007) |
| | CEV | 0.02 ppm | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015) |

Biological Limit Values

| Chemical Identity | Exposure Limit Values | Source |
|--|-------------------------------|---------------------|
| Hexamethylene diisocyanate (HDI) | 15 μg/g (Creatinine in urine) | ACGIH BEI (03 2015) |
| (Hexamethylenediamine (with hydrolysis): Sampling time: End of shift.) | | |

Appropriate Engineering Controls

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

Individual protection measures, such as personal protective equipment

Eye/face protection: Wear safety glasses with side shields (or goggles).

Skin Protection

Hand Protection: Additional Information: Use suitable protective gloves if risk of skin contact.

Skin and Body Protection: Wear suitable protective clothing. Wear chemical-resistant gloves,

footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific

information.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below

recommended exposure limits (where applicable) or to an acceptable level

(in countries where exposure limits have not been established), an approved respirator must be worn. Air-purifying respirator with an

appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or

manufacturer for specific information.



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Hygiene measures: Observe good industrial hygiene practices. Wash contaminated clothing

before reuse. Avoid contact with skin. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should

not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Yellow

Odor:

Odor threshold:

PH:

No data available.

194 °C 382 °F

Flash Point:

> 93 °C > 200 °F

Evaporation rate:

Slower than Ether

Flammability (solid, gas): No Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper:

Explosive limit - lower:

No data available.

Vapor density: Vapors are heavier than air and may travel along the floor and

in the bottom of containers.

Relative density: 1.13

Solubility(ies)

Solubility in water: Practically Insoluble Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature:No data available.Decomposition temperature:No data available.Viscosity:No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

No data available.

Conditions to avoid: Avoid heat or contamination.



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Incompatible Materials: Alcohols. Amines. Strong acids. Strong bases. Water, moisture.

Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

11. Toxicological information

Information on likely routes of exposure

In high concentrations, vapors, fumes or mists may irritate nose, throat and

mucus membranes.

Skin Contact: May be harmful in contact with skin. Causes skin irritation. May cause an

allergic skin reaction.

Eye contact: Eye contact is possible and should be avoided.

Ingestion: May be ingested by accident. Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Ingestion: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Homopolymer of HDI LD 50 (Rat): > 5,000 mg/kg

Tosyl isocyanate LD 50 (Rat): 2,330 mg/kg

Hexamethylene

diisocyanate (HDI)

LD 50 (Rat): 746 mg/kg

Dermal

Product: ATEmix: 2,022.02 mg/kg

Inhalation

Product: ATEmix: 1.52 mg/l

Repeated dose toxicity

Product: No data available.



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Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Homopolymer of HDI in vivo (Rabbit): Irritating, 24 - 72 h

Hexamethylene diisocyanate (HDI)

in vivo (Rabbit): Corrosive, 4 - 72 h

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Homopolymer of HDI Rabbit, 24 - 72 h: Not irritant

Respiratory or Skin Sensitization

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

May cause sensitization by inhalation.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.



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Target Organs

Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation.

Aspiration Hazard

Product: No data available.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Tosyl isocyanate LC 50 (Oncorhynchus mykiss, 96 h): > 45 mg/l Read-across from supporting

substance (structural analogue or surrogate), Key study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Homopolymer of HDI EC 50 (Daphnia sp., 24 h): >= 100 mg/l experimental result Experimental

result, Supporting study

Tosyl isocyanate EC 50 (Daphnia magna, 48 h): > 100 mg/l read-across from supporting

substance (structural analogue or surrogate) Read-across from supporting

substance (structural analogue or surrogate), Key study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):



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Homopolymer of HDI 1 % (28 d) Detected in water. Experimental result, Key study

Hexamethylene diisocyanate (HDI)

42 % (28 d) Detected in water. Experimental result, Key study

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Hexamethylene Bioconcentration Factor (BCF): 57.63 Aquatic sediment Estimated by

diisocyanate (HDI) calculation, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

Hexamethylene

diisocyanate (HDI)

Log Kow: 3.20

Mobility in soil: No data available.

Other adverse effects: No data available.

13. Disposal considerations

Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Contaminated Packaging: No data available.

14. Transport information

TDG:

Not Regulated

CFR / DOT:

Not Regulated

IMDG:

Not Regulated



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Further Information:

The above shipping description may not be accurate for all container sizes and all modes of transportation. Please refer to Bill of Lading.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>
Hexamethylene

Reportable quantity
100 lbs.

diisocyanate (HDI)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate (Acute) Health Hazards
Delayed (Chronic) Health Hazard
Acute toxicity (any route or exposure)
Skin Corrosion or Irritation
Respiratory or Skin Sensitization
Specific target organ toxicity (single or repeated exposure)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Not regulated.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient requiring a warning under CA Prop 65.

International regulations



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Montreal protocol

Not applicable

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol

Not applicable

VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: < 50 g/l

Regulatory VOC (less water and

exempt solvent)

: 3 g/l

VOC Method 310 : 0.24 %



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Inventory Status:

Australia AICS: One or more components in this

product are not listed on or exempt

from the Inventory.

Canada DSL Inventory List: All components in this product are

listed on or exempt from the

Inventory.

Canada NDSL Inventory: One or more components in this

product are not listed on or exempt

from the Inventory.

Ontario Inventory: One or more components in this

product are not listed on or exempt

from the Inventory.

China Inv. Existing Chemical

Substances:

All components in this product are

listed on or exempt from the

Inventory.

Japan (ENCS) List:

One or more components in this

product are not listed on or exempt

from the Inventory.

Japan ISHL Listing: One or more components in this

product are not listed on or exempt

from the Inventory.

Japan Pharmacopoeia Listing: One or more components in this

product are not listed on or exempt

from the Inventory.

Korea Existing Chemicals Inv. (KECI): One or more components in this

product are not listed on or exempt

from the Inventory.

Mexico INSQ: One or more components in this

product are not listed on or exempt

from the Inventory.

New Zealand Inventory of Chemicals: All components in this product are

listed on or exempt from the

Inventory.

Philippines PICCS: One or more components in this

product are not listed on or exempt

from the Inventory.

Taiwan Chemical Substance Inventory: One or more components in this



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product are not listed on or exempt

from the Inventory.

US TSCA Inventory: All components in this product are

listed on or exempt from the

Inventory.

EINECS, ELINCS or NLP: All components in this product are

listed on or exempt from the

Inventory.

16.Other information, including date of preparation or last revision

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Version #: 2.0

Further Information: No data available.

Disclaimer: For Industrial Use Only. Keep out of Reach of Children. The hazard

information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including

the safe use of the product under every foreseeable condition.