

Revision Date: 10/04/2023

SAFETY DATA SHEET

1. Identification

Material name: Vulkem® 350FC SL

Material: 880470 801

Recommended use and restriction on use

Recommended use: Curative Restrictions on use: Not known.

Manufacturer/Importer/Supplier/Distributor Information

Tremco CPG Inc. - U.S. Sealants

3735 Green Road Beachwood OH 44122

US

Contact person:EH&S DepartmentTelephone:216-292-5000

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

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 4

Health Hazards

Acute toxicity (Oral)

Acute toxicity (Dermal)

Acute toxicity (Inhalation - vapor)

Acute toxicity (Inhalation - dust and

Category 4

Category 4

Category 4

mist)

Serious Eye Damage/Eye Irritation Category 2A
Skin sensitizer Category 1
Carcinogenicity Category 2
Specific Target Organ Toxicity - Category 2

Repeated Exposure

Unknown toxicity - Health

Acute toxicity, dermal 1.24 %
Acute toxicity, inhalation, vapor 100 %
Acute toxicity, inhalation, dust 31.14 %
or mist

Environmental Hazards

Acute hazards to the aquatic Category 1

environment



Revision Date: 10/04/2023

Chronic hazards to the aquatic environment

Category 1

Unknown toxicity - Environment

Acute hazards to the aquatic

< 0.0001 %

environment

Chronic hazards to the aquatic

< 0.0001 %

environment

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Combustible liquid.

Harmful if swallowed, in contact with skin or if inhaled.

Causes serious eye irritation.

May cause an allergic skin reaction.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety

precautions have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/ protective

clothing/ eye protection/ face protection. Use personal protective equipment

as required.

Response: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse

mouth. 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. Call a POISON CENTER or doctor/ physician if you feel unwell. Specific treatment (see supplemental first aid instructions

on this label). IF INHALED: Remove person to fresh air and keep

comfortable for breathing. Call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. In case of fire: Use dry sand, dry chemical or alcohol-



Revision Date: 10/04/2023

resistant foam for extinction. Collect spillage.

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):

Static accumulating flammable liquid can become electrostatically charged

even in bonded and grounded equipment.

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Diethyltoluenediamine	68479-98-1	25 - <50%
Propylene carbonate	108-32-7	20 - <50%
Aspartic acid,N,N'-(methylenedi-4,1-cyclohexanediyl)bis-, 1,1',4,4'-tetraethylester	136210-30-5	25 - <50%
P-chlorobenzotrifluoride	98-56-6	5 - <10%
Aliphatic Carboxylic Ester	623-91-6	1 - <2.5%
Propylene oxide	75-56-9	0 - <0.1%

^{*} 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

Inhalation: Move to fresh air.

Skin Contact: Call a POISON CENTER/doctor if you feel unwell. 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: Remove contact lenses, if present and easy to do. Continue rinsing.

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

to do, remove contact lenses. Get medical attention.

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

Personal Protection for First-

aid Responders:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

Most important symptoms/effects, acute and delayed

Symptoms: Respiratory tract irritation.

Hazards: No data available.



Revision Date: 10/04/2023

Indication of immediate medical attention and special treatment needed

Treatment: Symptoms may be delayed.

5. Fire-fighting measures

General Fire Hazards: Move containers from fire area if you can do so without risk.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread 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:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

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

up:

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.

Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so. Avoid release to the environment.

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.



Revision Date: 10/04/2023

Safe handling advice: Provide adequate ventilation. Wear appropriate personal protective

equipment. Observe good industrial hygiene practices. Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. Do not taste or swallow. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

Contact avoidance measures: No data available.

Hygiene measures: Avoid contact with skin. Observe good industrial hygiene practices. Do not

eat, drink or smoke when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Contaminated work

clothing should not be allowed out of the workplace.

Storage

Safe storage conditions: Store locked up. Store in a well-ventilated place. Store in a cool place.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

occupational Exposure Ennite						
Chemical Identity	Туре	Exposure Limit Values		Source		
Propylene oxide	PEL	100 ppm	240 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)		
	TWA	2 ppm		US. ACGIH Threshold Limit Values, as amended (2008)		

None of the components have assigned exposure limits.

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 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: In case of inadequate ventilation use suitable respirator. Seek advice from

local supervisor.



Revision Date: 10/04/2023

Hygiene measures: Avoid contact with skin. Observe good industrial hygiene practices. Do not

eat, drink or smoke when using the product. Wash hands after handling. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. When using do not smoke. Contaminated work

clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Physical state: liquid
Form: liquid
Color: Amber
Odor: Pungent

Odor threshold:

pH:

No data available.

150 °C 302 °F

Flash Point:

65.56 °C 150.01 °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.

No data available.

No data available.

No data available.

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

in the bottom of containers.

Relative density: 1.15

Solubility(ies)

Solubility in water:
Solubility (other):

Partition coefficient (n-octanol/water):

Slightly Soluble
No data available.
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: Heat, sparks, flames.



Revision Date: 10/04/2023

Incompatible Materials: Strong acids.

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: Harmful in contact with skin. May cause an allergic skin reaction.

Eye contact: Causes serious eye irritation.

Ingestion: Harmful if swallowed.

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: ATEmix: 1,340.99 mg/kg

Dermal

Product: ATEmix: 1,836.47 mg/kg

Inhalation

Product: ATEmix: 3 mg/l

ATEmix: 1.25 mg/l

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):



Revision Date: 10/04/2023

Propylene carbonate in vivo (Rabbit): Not irritant, 24 - 72 h

P-chlorobenzotrifluoride in vivo (Rabbit): Not irritant (unspecified classification), 24 - 72 h

Propylene oxide in vivo (Rabbit): Not irritant, 72 h

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Propylene carbonate Rabbit, 24 h: Not irritant

P-chlorobenzotrifluoride Rabbit, 24 h: Not irritant

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: Suspected of causing cancer.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

P- Overall evaluation: Possibly carcinogenic to humans.

chlorobenzotrifluori

de

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

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), 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



Revision Date: 10/04/2023

Product: No data available.

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):

Diethyltoluenediamine LC 50 (Leuciscus idus, 48 h): 200 mg/l Experimental result, Key study

Propylene carbonate LC 50 (Cyprinus carpio, 96 h): > 1,000 mg/l Experimental result, Key study

Aspartic acid,N,N'-(methylenedi-4,1cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester LC 50 (Danio rerio, 96 h): 66 mg/l Read-across from supporting substance

(structural analogue or surrogate), Key study

P-chlorobenzotrifluoride LC 50 (96 h): 3 mg/l Experimental result, Key study

Aliphatic Carboxylic Ester LC 50 (Fathead minnow (Pimephales promelas), 96 h): 4.5 mg/l Mortality

Propylene oxide LC 50 (96 h): 52 mg/l Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Diethyltoluenediamine EC 50 (Daphnia magna, 48 h): 0.5 mg/l experimental result Experimental

result, Key study

Propylene carbonate EC 50 (Daphnia magna, 48 h): > 1,000 mg/l experimental result

Experimental result, Key study

Aspartic acid,N,N'-(methylenedi-4,1cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester EC 50 (Daphnia magna, 48 h): 88.6 mg/l read-across from supporting substance (structural analogue or surrogate) Read-across from supporting

substance (structural analogue or surrogate), Key study

P-chlorobenzotrifluoride EC 50 (Daphnia magna, 48 h): 18.84 mg/l experimental result Experimental

result, Key study



Revision Date: 10/04/2023

Propylene oxide EC 50 (Daphnia magna, 48 h): 350 mg/l experimental result Experimental

result, Key study

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Aspartic acid,N,N'- NOAEL (Daphnia magna): 0.013 mg/l read-across from supporting substance (structural analogue or surrogate) Read-across from supporting substance (structural analogue or surrogate), Key study

1,1',4,4'-tetraethyl ester

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Diethyltoluenediamine ErC 50 (Algae, 72 h): 104 mg/l Experimental result, Key study

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Diethyltoluenediamine < 1 % (28 d) Detected in water. Experimental result, Weight of Evidence

study

Propylene carbonate 87.7 % Detected in water. Experimental result, Key study

Aspartic acid,N,N'-(methylenedi-4,1cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester 16.1 % Detected in water. Experimental result, Key study

P-chlorobenzotrifluoride 7 % (28 d) Detected in water. Experimental result, Key study

Propylene oxide 96 % 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):

Diethyltoluenediamine Bioconcentration Factor (BCF): 2.75 Aquatic sediment QSAR, Key study



Revision Date: 10/04/2023

Aspartic acid,N,N'-(methylenedi-4,1cyclohexanediyl)bis-, 1,1',4,4'-tetraethyl ester Bioconcentration Factor (BCF): 1,872 Aquatic sediment Estimated by

calculation, Supporting study

P-chlorobenzotrifluoride Bioconcentration Factor (BCF): 9 Aquatic sediment Estimated by calculation,

Key study

Propylene oxide Various, Bioconcentration Factor (BCF): 1 Aquatic sediment Experimental

result, Key study

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Specified substance(s):

P-chlorobenzotrifluoride Log Kow: 3.60 25 °C

Aliphatic Carboxylic Ester Log Kow: 2.20

Propylene oxide Log Kow: 0.03

Mobility in soil: No data available.

Other adverse effects: Very toxic to aquatic life with long lasting effects.

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:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethylmethylbenzenediamine), 9, PG III, LTD QTY

CFR / DOT:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethylmethylbenzenediamine), 9, PG III, LTD QTY

IMDG:

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diethylmethylbenzenediamine), 9, PG III, LTD QTY

15. Regulatory information



Revision Date: 10/04/2023

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 1910.1001-1053), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

Immediate (Acute) Health Hazards

Delayed (Chronic) Health Hazard

Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route or exposure)

Serious eye damage or eye irritation

Respiratory or Skin Sensitization

Carcinogenicity

Specific target organ toxicity (single or repeated exposure)

Hazards Not Otherwise Classified (HNOC)

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



WARNING

Cancer - www.P65Warnings.ca.gov

International regulations

Montreal protocol

Not applicable



Revision Date: 10/04/2023

Stockholm convention

Not applicable

Rotterdam convention

Not applicable

Kyoto protocol Not applicable

VOC:

Regulatory VOC (less water and : 0 g/l

exempt solvent)

VOC Method 310 : 0.00 %

13/15



Revision Date: 10/04/2023

Inventory Status:

EC Inventory: 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.

China Inv. Existing Chemical

Substances:

All components in this product are

listed on or exempt from the

Inventory.

Korea Existing Chemicals Inv. (KECI): 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.

Philippines PICCS: One or more components in this

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.

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

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.

Mexico INSQ:

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.

Taiwan Chemical Substance Inventory: One or more components in this



Revision Date: 10/04/2023

product are not listed on or exempt

from the Inventory.

Australia Industrial Chem. Act (AIIC): One or more components in this

product are not listed on or exempt

from the Inventory.

Canada DSL Inventory List:

One or more components in this

product are not listed on or exempt

from the Inventory.

Switzerland New Subs Notified/Registered:

One or more components in this product are not listed on or exempt

from the Inventory.

Thailand DIW Existing Chemical Inv.

List:

One or more components in this product are not listed on or exempt

from the Inventory.

Vietnam National Chemical Inventory: One or more components in this

product are not listed on or exempt

from the Inventory.

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

Revision Date: 10/04/2023

Version #: 1.4

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.