

VISURON TECHNOLOGIES, INC.

Material Safety Data Sheet

PRODUCT NAME: Veil Safe

(PART "A")

Revision Date: 2008/01/18
Version: 2.0

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Section 1. Substance/preparation and company Identification

Company

Visuron Technologies, Inc.
201 Morton St.
Bay City, MI 48706

24 Hour Emergency Response Information

CHEMTREC: (800) 424-9300
Visuron Phone: (989) 893-9224
Visuron Contact: Tom Davis

Section 2. Composition/Information on ingredients

Hazardous Ingredients:	CAS #	% Wt.
4,4'- Diphenylmethane Diisocyanate (MDI)	101-68-8	30-70
Modified MDI	Not Disclosed	5-15
Propylene Carbonate	108-32-7	10-30

Section 3. Hazard identification

Emergency Overview

WARNING: CAUSES SKIN IRRITATION.

RISK OF SERIOUS DAMAGE TO EYES.

Ensure adequate ventilation.

Wear a NIOSH-certified (or equivalent) organic vapor respirator.

Wear NIOSH-certified chemical goggles.

Avoid contact with the skin, eyes and clothing.

General Advice: Remove contaminated clothing.

If inhaled: Keep patient calm, remove to fresh air, seek medical attention.

If on skin: Wash off thoroughly with ample water. After contact with skin, wash immediately with plenty of water and soap.

If in eyes: Immediately wash eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed: DO NOT INDUCE VOMITING. Rinse mouth immediately and then drink water or milk. Call a physician or poison control center. Never give anything by mouth to an unconscious person.

Section 4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

Skin: Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

Ingestion: If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Notes To Physician: *Eyes.* Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Workplace vapors have produced reversible corneal epithelial edema impairing vision. *Skin.* This compound is known as a skin sensitizer. Treat symptomatically as for contact dermatitis or thermal burns. If burned, treat as thermal burn. *Ingestion.* Treat symptomatically. There is no specific antidote. Inducing vomiting is contraindicated because of the irritating nature of this compound. *Respiratory.* This compound is a known pulmonary sensitizer. Treatment is essentially symptomatic. An individual having a skin or pulmonary sensitization reaction to this material should be removed from exposure to any isocyanate.

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Section 5. Fire-fighting measures

Flash point: >300 °F (149°C) CCC

Suitable extinguishing media: Carbon dioxide, dry chemical or foam. If water is used, it should be very large quantity. The reaction between water and isocyanate may be vigorous.

Protective equipment for fire-fighting: Wear self-contained breathing apparatus and chemical-protective clothing.

Further information: Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

Section 6. Accidental release measures

Personal precautions: Avoid inhalation. Avoid contact with the skin, eyes and clothing.

Environmental precautions: Do not empty into drains.

Cleanup: Pick up with suitable absorbent materials (e.g. sand, sawdust, general-purpose binder). Dispose of absorb material in accordance with regulations.

Section 7. Handling and storage

Handling

General advice: Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion: Take precautionary measures against static discharges. Avoid all sources of ignition: Heat sparks, open flame. Provide exhaust ventilation.

Storage

General advice: Containers should be stored tightly sealed in dry place. Store between 60-100°F. Keep out of direct sunlight. Do not re-seal if contamination is suspected. Shelf life: 6 months.

Storage incompatibility: Water, amines, strong bases, alcohols.

Section 8. Exposure controls and personal protection

Personal protective equipment

Respiratory protection: Wear respiratory protection if ventilation is inadequate.

Hand protection: Chemical resistant protective gloves. Consult with glove manufacturer.

Eye protection: Chemical goggles or safety glasses with side-shields and face shield.

General safety and hygiene measures: Avoid contact with the skin, eyes and clothing. Do not breath vapors / spray. Wearing of closed work clothing is required additionally to the stated personal protection equipment.

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Section 9. Physical and chemical properties

Form:	liquid
Odor:	mild
Color:	colorless to light yellow
Appearance:	viscous liquid
pH value:	not applicable
Boiling point:	not established
Freezing point:	45-50°F (7-10°C)
Evaporation rate:	not established
Density:	9.1 lb./gal. @ 77°F
Specific gravity:	1.1 (water=1) @ 77°F
Viscosity:	300-600 CST @ 77°F
Molecular wt.	not established

Comments

Percent volatile:	negligible
Vapor pressure:	< 10 ⁻³ mm Hg @ 77°F
Vapor density:	8.5 (MDI) (air=1)
Water solubility:	Not soluble. Reacts with water to liberate CO ₂ gas

Section 10. Stability and reactivity

Conditions to avoid: Hazardous polymerization may occur if contaminated with water, amines, strong bases, alcohols. Will cause some corrosion to copper alloys and aluminum. Temperatures above 400 °F may cause polymerization. Hazardous decomposition may occur with high heat and fire. Carbon monoxide, oxides of nitrogen, traces of HCN, MDI vapors or aerosols may result. Incompatible with water, amines, strong bases and alcohols.

Section 11. Toxicological information

LD50 Rat Oral: > 5000 mg/kg
LD50-Rabbit Dermal: > 7,900 mg/kg

Inhalation: This product is a respiratory irritant and potential respiratory sensitizer. Repeated inhalation of vapor or aerosol at levels above the occupational exposure limit could cause respiratory sensitization. Symptoms may include irritation to the eyes, nose, throat, and lungs, possibly combined with dryness of the throat, tightness of chest and difficulty in breathing. The onset of the respiratory symptoms may be delayed for several hours after exposure. A hyper-reactive response to even minimal concentrations of MDI may develop in sensitized persons.

Skin contact: Moderate irritant. Repeated and/or prolonged contact may cause skin sensitization. There is limited evidence from animal studies that skin contact may play a role in respiratory sensitization. These results emphasize the need for protective clothing including gloves to be worn at all times when handling these chemicals or in maintenance work.

Eye contact: The vapor, aerosol, and liquid are irritant.

Ingestion: Ingestion may cause irritation of the gastrointestinal tract. Based on the acute oral LD50 this product is considered practically non-toxic by ingestion.

Carcinogenic effects: The ingredients of this product are not classified as carcinogenic by ACGIH or IARC, not regulated as carcinogens by OSHA, and not listed as carcinogens by NTP.

Mutagenic effects: There is no substantial evidence of mutagenic potential.

Reproductive effects: No adverse reproductive effects are anticipated.

Teratogenic effects: No birth defects were seen in two independent animal (rat) studies. Fetotoxicity was observed at doses that were extremely toxic (including lethal) to the mother. Fetotoxicity was not observed at doses that were not maternally toxic. The doses used in these studies were maximal respirable concentrations well in excess of the defined occupational limits.

Remarks: There are reports that excessive chronic exposure to diisocyanates may result in permanent decrease in lung function.

Section 12. Ecological information

Environmental fate and distribution: It is unlikely that significant environmental exposure in the air or water will arise, based on consideration of the production and use of the substance.

Persistence and degradation: Immiscible with water, but will react with water to produce inert and non-biodegradable solids.

Toxicity: Polymeric MDI

LC50 (zebra fish) . 1000 mg/l (at the highest level tested of 1000 mg/l there were no deaths)

EC50 (Daphnia magna) (24 hr.) . 1000 mg/l

EC50 (E. coli) . 100 mg/l

Section 13. Disposal considerations

Waste disposal of substance: Waste must be disposed of in accordance with federal, state and local environmental control regulations. Incineration is the preferred method.

Empty containers: "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum re-conditioner, or properly disposed of.

RCRA/USPA WASTE INFORMATION: If discarded in its purchased form, this product would not be considered a hazardous waste either by listing or by characteristic. However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing this product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

Section 14. Transport information

For major spills call Chemtrec (800-424-9300)

DOT classification: Single containers less than 5,000 lbs. are not regulated. Single containers with 5,000 lbs or more of 4,4'-Methylene Diphenyl Diisocyanate are regulated as: Other Regulated Substances. Liquid, N.O.S. (Methylene Diphenyl Diisocyanate), 9, NA3082, PGIII, RQ.

TDG classification: Not regulated

IMO/IMDG classification: Not regulated

ICAO/IATA classification: Not regulated

Section 15. Regulatory information

U. S. Federal Regulations: This material is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200)

HCS classification Class: Toxic

Class: Irritating Substance

Class: Sensitizing substance

TSCA 8(b) inventory: All ingredients listed

EPCRA Section 313 (40 CFR 372)

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CERCLA : 4,4'-Methylene diphenyl diisocyanate (CAS 101-68-8) has a 5,000 lb. RQ. Any spill or release above the RQ must be reported to the National Response Center (800-424-8802).
This product does not contain nor is it manufactured with ozone depleting substances.

State regulations:

Canadian Regulations: This product has been classified in accordance with the hazard criteria of the CPR. This MSDS contains all the information required by the CPR.

WHMIS (Canada) Class D-1A: Material causing immediate and serious toxic effects (very toxic)
Class D-2A: Material causing other toxic effects (very toxic)
Class D-2B: Material causing other toxic effects (toxic)
CEPA: DSL: All ingredients listed.

Section 16. Other information

HMIS 111 rating: Health: 2 Flammibility: 1 - Physical hazard: 1
(HMIS uses a numbering scale ranging from 0-4 to indicate the degree of hazard. Zero means essentially no hazard; four rating indicates high hazard)

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