

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Telephone numbers: (517) 546-4520
Manufacturer/Supplier: CHEM-TREND LP
P.O. BOX 860
HOWELL, MI 48844-0860
Product Name: Pura® Insulation Remover

2. HAZARDS IDENTIFICATION

Physical State: Liquid
Appearance: Liquid
Color: Clear Colourless to Yellow
Odor: Mild Amine
Principle routes of exposure: Skin, eyes, respiratory tract, gastrointestinal tract

See Toxicological Information (section 11)

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Registry Number	Weight %
1-Methyl-2-pyrrolidone	872-50-4	90 - 100%

4. FIRST AID MEASURES

Skin contact: Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.
Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and contact a physician.
Inhalation: Move to fresh air.
Ingestion: Drink 2 glasses of water. Contact a physician immediately.
Aggravated Medical Conditions: Dermatitis.
Notes to physician: No information available.

5. FIRE-FIGHTING MEASURES

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Flash point:	199 °F , 93°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
Flame extension test, inches (aerosol products only):	Not applicable or no information available.
Suitable extinguishing media:	Carbon dioxide (CO2). Dry chemical. Foam. Do not use a direct stream of water..
Unusual hazards:	Combustible material.
Special protective equipment for firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
Specific methods:	Standard procedure for chemical fires. Cool containers / tanks with spray water
Explosive properties:	No information available.

6. ACCIDENTAL RELEASE MEASURES

Method(s) for cleanup:

Small spills:	Take precautionary measures against static discharges. Soak up with inert absorbent material and dispose of as hazardous waste.
Large spills:	Dam up. Take precautionary measures against static discharges. Take up mechanically and collect in suitable container for disposal.

7. HANDLING AND STORAGE

Handling:

Technical measures/precautions: Ensure adequate ventilation. Take precautionary measures against static discharges.

Safe handling advice: Handle in accordance with good industrial hygiene and safety practice. Normal measures of preventive fire protection. Take precautionary measures against static discharges. Keep product and empty container away from heat, open flames, and other sources of ignition. Bond and ground containers during transfer of material. Do not puncture empty containers. Do not re-use empty containers for other materials.

Storage:

Technical measures/storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep product and empty container away from open flames, hot surfaces and sources of ignition. Store at temperatures not exceeding 110°F.

Incompatible products: Strong oxidizing agents.

Other precautions: None

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredient	CAS Registry Number	ACGIH TWA:	OSHA - TWA:	OSHA - Skin Notations	OSHA Z3 Mineral Dusts
1-Methyl-2-pyrrolidone	872-50-4	-	-	-	-

Engineering measures to reduce exposure: Ensure adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Personal Protective Equipment

- Respiratory protection:** In case of insufficient ventilation wear suitable respiratory equipment.
- Hand protection:** Impervious gloves
- Eye protection:** Tightly-fitting safety goggles or safety glasses with side shields.
- Skin and body protection:** Lightweight protective clothing. Usual safety precautions while handling the product will provide adequate protection against this potential effect.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Initial boiling point:	~395°F, ~202°C
Specific gravity:	1.03
Bulk density (lb/gal):	8.59
Vapor pressure in mm Hg at 20 °C (68 °F):	0.29 (n-methylpyrrolidone)
Vapor density (air = 1):	>1
Evaporation rate:	<1 (n-butyl acetate = 1)
Volatiles content (%):	Non-volatile at STP
Solubility in water:	Insoluble
pH of concentrate:	Not applicable.
pH of dilution, other:	7.2 @ 10%
Melting point/range:	Not applicable
Flash point:	199 °F , 93°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
Flammability limits in air:	Percent by volume

Ingredient	CAS Registry Number	Lower (%):	Upper (%):
1-Methyl-2-pyrrolidone	872-50-4	1.3	9.5

10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid:	Strong oxidising agents. Strong acids Reducing agents
Hazardous decomposition products:	Carbon oxides. Nitrogen oxides (NOx).
Polymerization:	Hazardous polymerisation does not occur.

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11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

Ingredient	CAS Registry Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
1-Methyl-2-pyrrolidone	872-50-4	3598 mg/kg (Rat)	2000 mg/kg (Rabbit) 2500 mg/kg (Rat)	3.1 mg/L (Rat) 4 h

Acute effects

Product contains proprietary ingredients. Health hazards are listed below.

Skin contact:

Causes skin irritation. Repeated or prolonged contact can cause redness, swelling, and cracking..

Eye contact:

Moderately irritating to the eyes.

Inhalation:

May cause irritation of respiratory tract

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Sensitization:

No information available.

Other effects:

In animal studies in rats and mice, N-methylpyrrolidone was embryotoxic by the oral and intraperitoneal routes at very high dose levels which were close to the LD50. In a dermal exposure study with rats, N-methylpyrrolidone was only embryotoxic at high dose levels; this effect was attributed to maternal toxicity. Several inhalation studies in rats did not reveal any indication of maternal toxicity or embryotoxicity.

Chronic effects

Carcinogenic effects:

Ingredient	CAS Registry Number	NTP:	IARC:	OSHA:
1-Methyl-2-pyrrolidone	872-50-4	No	No	No

Mutagenic effects:

No information available.

Reproductive toxicity:

No information available.

Target organ effects:

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

13. DISPOSAL CONSIDERATIONS

Method(s) of disposal: Dispose of in accordance with local, state, and federal regulations. This product does not fall under current EPA RCRA definitions of hazardous waste.

US EPA Waste code(s): None.

14. TRANSPORTATION INFORMATION

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IMDG - Marine Pollutants This product does not contain marine pollutants as classified by the International Maritime Organization.

Emergency Response Guidebook 128 (ERG) No:

Mode of Transportation:	UN/NA ID No:	Proper shipping name:	Technical name:	Hazard Class:	Packing group:
DOT - Non-Bulk	-	Not regulated	-	-	-
DOT - Bulk	NA1993	Combustible liquid, n.o.s.	(Contains 1-Methyl-2-pyrrolidone)	-	III
Canadian TDG	-	Not regulated	-	-	-
ICAO/IATA	-	Not regulated	-	-	-
IMO/IMDG	-	Not regulated	-	-	-

15. REGULATORY INFORMATION

U.S. Regulations

OSHA Hazardous Chemical: Yes

Sara Title III

CERCLA/SARA (304) Hazardous Substances and RQs

Ingredient	CAS Registry Number	Weight %	RQ
1-Methyl-2-pyrrolidone	872-50-4	90 - 100%	-

SARA (302) Extremely Hazardous Substances and RQs

Ingredient	CAS Registry Number	Weight %	RQs
1-Methyl-2-pyrrolidone	872-50-4	90 - 100%	-

SARA (311/312) Classification:

Acute health hazard: Yes
Chronic health hazard: Yes
Fire: Yes
Sudden release of pressure: No
Reactive: No

SARA (313) Toxic Chemicals

Ingredient	CAS Registry Number	Weight %	SARA (313) List
1-Methyl-2-pyrrolidone	872-50-4	90 - 100%	X

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15. REGULATORY INFORMATION

International Inventories

Australia:	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).
Canada:	This product complies with DSL
China:	This product complies with CLECS.
Europe:	This product complies with EINECS
Japan:	This product complies with ENCS/MITI.
Korea:	Listed on ECL.
New Zealand:	This product complies with NEWZ
Philippines:	This product complies with PICCS.
United States:	This product complies with TSCA.

16. OTHER INFORMATION

Hazardous Material Information System (USA):

Health: 2 **Flammability:** 2 **Physical hazard:** 0 **Personal Protection code:** B

National Fire Protection Association (USA):

Health: 2 **Flammability:** 2 **Instability:** 0 **Special Hazards:** None

All revisions are marked with one or more asterisks (*)

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