

MATERIAL SAFETY DATA SHEET

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

Telephone numbers:	(517) 546-4520
Manufacturer/Supplier:	CHEM-TREND LP P.O. BOX 860 HOWELL, MI 48844-0860
Product Name:	Mono-Coat® 1926RB

2. HAZARDS IDENTIFICATION

Physical State:	Liquid
Appearance:	Liquid
Color:	Clear
Odor:	Mild Hydrocarbon
Emergency Overview:	DANGER: FLAMMABLE!
Principle Routes of Exposure:	Skin, eyes, respiratory tract, gastrointestinal tract

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
VM&P Naphtha	-	40 - 50%
n-Propyl alcohol	71-23-8	40 - 50%
Glycol ether	-	1 - 5%
Ethyl alcohol	64-17-5	1 - 5%
Release blend	Proprietary	1 - 5%

4. FIRST AID MEASURES

Skin contact:	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Inhalation:	Move to fresh air. If symptoms persist, call a physician.
Ingestion:	Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Aspiration may cause pulmonary oedema and pneumonitis. Call a physician or Poison Control Centre immediately.
Aggravated Medical Conditions:	Dermatitis.

4. FIRST AID MEASURES

Notes to physician:	N-propanol is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether or not to induce vomiting. Rapid absorption may occur through lungs if aspirated and cause systemic effects. Therefore, the decision to induce vomiting or not must be made by a physician; danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. If lavage is performed, suggest endotracheal and/or esophageal control. Exposure may increase "myocardial irritability"..
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5. FIRE-FIGHTING MEASURES

Flash point:	58 °F , 14°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:	Flammable.
Special protective equipment for fire-fighters:	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.
Explosive properties:	No information available.

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up:	
Small spills:	Take precautionary measures against static discharges. Soak up with inert absorbent material and dispose of as hazardous waste.
Large spills:	Take precautionary measures against static discharges. Pick up and transfer to properly labelled containers.

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 for preventive fire protection. Take precautionary measures against static discharges. Keep away from open flames, hot surfaces and 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

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Components	CAS-No.	ACGIH TWA:	OSHA - TWA:	OSHA - Skin Notations	OSHA Z3 Mineral Dusts
VM&P Naphtha	-	-	-	-	-
n-Propyl alcohol	71-23-8	100 ppm	200ppmTWA 500mg/m ³ TW A	-	-
Glycol ether	-	100 ppm 150 ppm	100ppmTWA 600mg/m ³ TW A	-	-
Ethyl alcohol	64-17-5	1000 ppm	1000ppmTWA 1900mg/m ³ TW A	-	-
Release blend	Proprietary	-	-	-	-

Engineering measures: Ensure adequate ventilation.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Mono-Coat® 1926RB

Initial boiling point:	~245 °F , ~118 °C
Specific gravity:	0.77
Bulk density (lb/gal):	6.42
Vapor pressure in mm Hg at 20 °C (68 °F):	No information available.
Vapor density (Air = 1.0)	>1
Evaporation rate:	<1 (n-butyl acetate = 1)
Volatiles content (%):	90 - 100%
Water solubility:	Insoluble
pH of concentrate:	Not applicable.
Melting point/range:	Not applicable
Flash point:	58 °F , 14°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
Flammability limits in air:	Percent by volume

Components	CAS-No.	Lower (%):	Upper (%):
n-Propyl alcohol	71-23-8	2.1	13.7
VM&P Naphtha	-	0.9	6.7
Glycol ether	-	1.1	3.0
Ethyl alcohol	64-17-5	3.3	19.0

10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to avoid:	Keep away from open flames, hot surfaces and sources of ignition.
Materials to avoid:	Strong oxidizing agents Strong acids and strong bases
Hazardous decomposition products:	Carbon oxides. Formaldehyde and silicon dioxide may be evolved at elevated temperatures.
Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Component Information:

11. TOXICOLOGICAL INFORMATION

Components	CAS-No.	LD50 Oral	LD50 Dermal	LC50 Inhalation
VM&P Naphtha	-	73680 ppm (Rat) 3160 mg/kg (Rabbit) 5000 mg/kg (Rat)	73680 ppm (Rat) 3160 mg/kg (Rabbit) 5000 mg/kg (Rat)	-
n-Propyl alcohol	71-23-8	1870 mg/kg (Rat) 13548 ppm (Rat)	1870 mg/kg (Rat) 13548 ppm (Rat)	13548 ppm (Rat) 4 h
Glycol ether	-	5230 mg/kg (Rat) 9500 mg/kg (Rabbit)	5230 mg/kg (Rat) 9500 mg/kg (Rabbit)	-
Ethyl alcohol	64-17-5	7060 mg/kg (Rat)	7060 mg/kg (Rat)	-
Release blend	Proprietary	-	-	-

Acute effects	Product contains proprietary ingredients. Health hazards are listed below.
Skin contact:	May cause skin irritation and/or dermatitis. Product may be absorbed through skin, causing drowsiness.
Eye contact:	May cause severe eye irritation. May cause severe eye irritation with corneal damage, resulting in permanent impairment of vision, even blindness.
Inhalation:	May cause irritation of respiratory tract. Excessive overexposure may cause drowsiness or anaesthetic effects.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, and diarrhea. Material entering lungs during swallowing or vomiting causes lung inflammation and other lung injury.
Sensitization:	No information available.
Other effects:	No information available.

Chronic effects
Carcinogenic effects:

Components	CAS-No.	NTP:	IARC:	OSHA:
VM&P Naphtha	-	No	No	No
n-Propyl alcohol	71-23-8	No	No	No
Glycol ether	-	No	No	No
Ethyl alcohol	64-17-5	No	Yes	Yes
Release blend	Proprietary	No	No	No

Mutagenic effects:	No information available.
Reproductive toxicity:	No information available.
Target organ effects:	Overexposure to n-propanol may cause damage to the brain, liver, and lungs

12. ECOLOGICAL INFORMATION

Ecotoxicity:	No data available.
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Mono-Coat® 1926RB

13. DISPOSAL CONSIDERATIONS

Method(s) of disposal: Dispose of in accordance with local, state, and federal regulations.

US EPA Waste number: D001 because of its ignitability if the product is disposed of in its original form.

14. TRANSPORT INFORMATION

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	UN1993	Flammable liquids, n.o.s.	(Contains VM&P Naphtha , N-Propyl alcohol)	3		II
DOT - Bulk	UN1993	Flammable liquids, n.o.s.	(Contains VM&P Naphtha , N-Propyl alcohol)	3		II
Canadian TDG	UN1993	Flammable liquid, n.o.s.	(Contains VM&P Naphtha , N-Propyl alcohol)	3		II
ICAO/IATA	UN1993	Flammable liquid, n.o.s.	(Contains VM&P Naphtha , N-Propyl alcohol)	3		II
IMO/IMDG	UN1993	Flammable liquid, n.o.s.	(Contains VM&P Naphtha , N-Propyl alcohol)	3		II

15. REGULATORY INFORMATION

Federal Regulations

OSHA Hazardous Chemical: Yes

SARA Title III

CERCLA/SARA (304) Hazardous Substances and RQs

Components	CAS-No.	Weight %	RQ
VM&P Naphtha	-	40 - 50%	-
n-Propyl alcohol	71-23-8	40 - 50%	-
Glycol ether	-	1 - 5%	-
Ethyl alcohol	64-17-5	1 - 5%	-
Release blend	Proprietary	1 - 5%	-

SARA (302) Extremely Hazardous Substances and RQs

Components	CAS-No.	Weight %	RQs
VM&P Naphtha	-	40 - 50%	-
n-Propyl alcohol	71-23-8	40 - 50%	-
Glycol ether	-	1 - 5%	-

Revision number

0

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15. REGULATORY INFORMATION

Ethyl alcohol	64-17-5	1 - 5%	-
Release blend	Proprietary	1 - 5%	-

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

Components	CAS-No.	Weight %	SARA (313) List
VM&P Naphtha	-	40 - 50%	Not Listed
n-Propyl alcohol	71-23-8	40 - 50%	Not Listed
Glycol ether	-	1 - 5%	Not Listed
Ethyl alcohol	64-17-5	1 - 5%	Not Listed
Release blend	Proprietary	1 - 5%	Not Listed

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 does not comply 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:** 3 **Physical hazard:** 0 **Personal Protection code:** H

National Fire Protection Association (USA):

Health: 2 **Flammability:** 3 **Instability:** 0 **Special Hazards:** None

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

16. OTHER INFORMATION

Prepared by: Karen M. Kuroda

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