

# MATERIAL SAFETY DATA SHEET

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

<b>Telephone numbers:</b>	(517) 546-4520
<b>Manufacturer/Supplier:</b>	CHEM-TREND LP P.O. BOX 860 HOWELL, MI 48844-0860
<b>Product Name:</b>	Mono-Coat® 1909RB

## 2. HAZARDS IDENTIFICATION

<b>Physical State:</b>	Liquid
<b>Appearance:</b>	Liquid
<b>Color:</b>	Clear
<b>Odor:</b>	Hydrocarbon
<b>Emergency Overview:</b>	DANGER: FLAMMABLE!
<b>Principle routes of exposure:</b>	Skin, eyes, respiratory tract, gastrointestinal tract
See Toxicological Information (section 11)	

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS Registry Number	Weight %
VM&P Naphtha	-	50 - 60%
n-Propyl alcohol	71-23-8	20 - 30%
Ethyl alcohol	64-17-5	5 - 10%
Glycol ether	-	1 - 5%
Hydrocarbon naphtha1	-	1 - 5%
Release blend	Proprietary	1 - 5%

## 4. FIRST AID MEASURES

<b>Skin contact:</b>	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes
<b>Eye contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes and contact a physician
<b>Inhalation:</b>	Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Move to fresh air. If symptoms persist, call a physician.

## **Mono-Coat® 1909RB**

### **4. FIRST AID MEASURES**

<b>Ingestion:</b>	Aspiration may cause pulmonary oedema and pneumonitis. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Contact a physician immediately.
<b>Aggravated Medical Conditions:</b>	No information available
<b>Notes to physician:</b>	No information available

### **5. FIRE-FIGHTING MEASURES**

<b>Flash point:</b>	52°F, 11°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
<b>Flame extension test, inches (aerosol products only):</b>	Not applicable or no information available.
<b>Suitable extinguishing media:</b>	Carbon dioxide (CO <sub>2</sub> ). Dry chemical. Foam. Do not use a direct stream of water..
<b>Unusual hazards:</b>	Flammable.
<b>Special protective equipment for firefighters:</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
<b>Specific methods:</b>	Standard procedure for chemical fires. Cool containers / tanks with spray water
<b>Explosive properties:</b>	No information available.

### **6. ACCIDENTAL RELEASE MEASURES**

<b>Method(s) for cleanup:</b>	
<b>Small spills:</b>	Soak up with inert absorbent material and dispose of as hazardous waste. Take precautionary measures against static discharges.
<b>Large spills:</b>	Take precautionary measures against static discharges. Dam up. Take up mechanically and collect in a suitable properly labelled chemical waste container for disposal.

### **7. HANDLING AND STORAGE**

<b>Handling:</b>	
<b>Technical measures/precautions:</b>	Ensure adequate ventilation. Take precautionary measures against static discharges.
<b>Safe handling advice:</b>	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.

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### 7. HANDLING AND STORAGE

**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

Ingredient	CAS Registry Number	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 <sup>3</sup> T WA	-	-
Ethyl alcohol	64-17-5	1000 ppm	=1000ppmTW A =1900mg/m <sup>3</sup> T WA	-	-
Glycol ether	-	-	-	-	-
Hydrocarbon naphtha1	-	-	-	-	-
Release blend	Proprietary	-	-	-	-

**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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Initial boiling point:** 194°F, 90°C

**Specific gravity:** 0.77

**Bulk density (lb/gal):** 6.42

**Vapor pressure in mm Hg at 20 °C (68 °F):** 46 (ethanol)

**Vapor density (air = 1):** >1

**Volatiles content (%):** 90 - 100%

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Evaporation rate:</b>	<1 (ether = 1)
<b>Solubility in water:</b>	Insoluble
<b>pH of concentrate:</b>	Not applicable.
<b>Melting point/range:</b>	Not applicable
<b>Flash point:</b>	52°F, 11°C (Pensky-Martens, ASTM D 93, ISO 1523, ISO 2719, DIN 51 755, DIN 51758)
<b>Flammability limits in air:</b>	Percent by volume

Ingredient	CAS Registry Number	Lower (%):	Upper (%):
VM&P Naphtha	-	0.9	6.7
n-Propyl alcohol	71-23-8	2.1	13.7
Ethyl alcohol	64-17-5	3.3	19.0
Glycol ether	-	1.1	13.4
Hydrocarbon naphtha1	-	0.5	4.9

### 10. STABILITY AND REACTIVITY

<b>Stability:</b>	Stable
<b>Conditions to avoid:</b>	Keep away from open flames, hot surfaces and sources of ignition.
<b>Materials to avoid:</b>	Strong oxidising agents
<b>Hazardous decomposition products:</b>	Carbon oxides. Formaldehyde and silicon dioxide may be evolved at elevated temperatures.
<b>Polymerization:</b>	Hazardous polymerisation does not occur

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

##### Component Information:

Ingredient	CAS Registry Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
VM&P Naphtha	-	5000 mg/kg ( Rat )	3160 mg/kg ( Rabbit )	-
n-Propyl alcohol	71-23-8	1870 mg/kg ( Rat )	-	13548 ppm ( Rat ) 4 h
Ethyl alcohol	64-17-5	7060 mg/kg ( Rat )	-	-
Glycol ether	-	5660 µL/kg ( Rat )	3100 mg/kg ( Rabbit )	-
Hydrocarbon naphtha1	-	5000 mg/kg ( Rat )	2000 mg/kg ( Rabbit )	5.2 mg/L ( Rat ) 4 h
Release blend	Proprietary	-	-	-

**Acute effects** Product contains proprietary ingredients. Health hazards are listed below.

**Skin contact:** Prolonged contact may defat skin, causing irritation and/or dermatitis.

**11. TOXICOLOGICAL INFORMATION**

<b>Eye contact:</b>	May cause severe eye irritation. May cause severe eye irritation with corneal damage, resulting in permanent impairment of vision, even blindness.
<b>Inhalation:</b>	High levels above the TLV cause stupor, headache, nausea, dizziness, unconsciousness, and may produce adverse effects on vision.
<b>Ingestion:</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea. Material entering lungs during swallowing or vomiting causes lung inflammation and other lung injury.
<b>Sensitization:</b>	No information available.
<b>Other effects:</b>	No information available.

**Chronic effects****Carcinogenic effects:**

Ingredient	CAS Registry Number	NTP:	IARC:	OSHA:
VM&P Naphtha	-	No	No	No
n-Propyl alcohol	71-23-8	No	No	No
Ethyl alcohol	64-17-5	No	No	No
Glycol ether	-	No	No	No
Hydrocarbon naphtha1	-	No	No	No
Release blend	Proprietary	No	No	No

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

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	No data available
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**13. DISPOSAL CONSIDERATIONS**

<b>Method(s) of disposal:</b>	Dispose of in accordance with local, state, and federal regulations.
<b>US EPA Waste code(s):</b>	D001 because of its ignitability if the product is disposed of in its original form.

**14. TRANSPORTATION INFORMATION**

<b>IMDG - Marine Pollutants</b>	This product does not contain marine pollutants as classified by the International Maritime Organization.
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**Emergency Response Guidebook 128 (ERG) No:**

<b>Mode of Transportation:</b>	<b>UN/NA ID No:</b>	<b>Proper shipping name:</b>	<b>Technical name:</b>	<b>Hazard Class:</b>		<b>Packing group:</b>
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**14. TRANSPORTATION INFORMATION**

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**

**U.S. Regulations**

**OSHA Hazardous Chemical: Yes**

**SARA Title III**

**CERCLA/SARA (304) Hazardous Substances and RQs**

Ingredient	CAS Registry Number	Weight %	RQ
VM&P Naphtha	-	50 - 60%	-
n-Propyl alcohol	71-23-8	20 - 30%	-
Ethyl alcohol	64-17-5	5 - 10%	-
Glycol ether	-	1 - 5%	-
Hydrocarbon naphtha1	-	1 - 5%	-
Release blend	Proprietary	1 - 5%	-

**SARA (302) Extremely Hazardous Substances and RQs**

Ingredient	CAS Registry Number	Weight %	RQs
VM&P Naphtha	-	50 - 60%	-
n-Propyl alcohol	71-23-8	20 - 30%	-
Ethyl alcohol	64-17-5	5 - 10%	-
Glycol ether	-	1 - 5%	-
Hydrocarbon naphtha1	-	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**

**15. REGULATORY INFORMATION****SARA (313) Toxic Chemicals**

Ingredient	CAS Registry Number	Weight %	SARA (313) List
VM&P Naphtha	-	50 - 60%	Not Listed
n-Propyl alcohol	71-23-8	20 - 30%	Not Listed
Ethyl alcohol	64-17-5	5 - 10%	Not Listed
Glycol ether	-	1 - 5%	Not Listed
Hydrocarbon naphtha1	-	1 - 5%	Not Listed
Release blend	Proprietary	1 - 5%	Not Listed

**International Inventories**

<b>Australia:</b>	All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).
<b>Canada:</b>	This product complies with DSL
<b>China:</b>	This product complies with CLECS.
<b>Europe:</b>	This product complies with EINECS
<b>Japan:</b>	This product complies with ENCS/MITI.
<b>Korea:</b>	Listed on ECL.
<b>New Zealand:</b>	This product does not comply with NEWZ
<b>Philippines:</b>	This product complies with PICCS.
<b>United States:</b>	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 (\*)

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*Disclaimer*

**16. OTHER INFORMATION**

*Information presented herein has been compiled from information provided to us by our suppliers and other sources considered to be dependable and is accurate and reliable to the best of our knowledge and belief but is not guaranteed to be so. Nothing herein is to be construed as recommending any practice or the use of any product in violation of any patent or in violation of any law or regulation. It is the users' responsibility to determine the suitability of any material for a specific purpose and to adopt such safety precautions as may be necessary. We make no warranty as to the results to be obtained in using any material and, since conditions of use are not under our control, we must necessarily disclaim all liability with respect to the use of any material supplied by us.*