

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® 1910RP

2. HAZARDS IDENTIFICATION

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
o-Xylene	95-47-6	30 - 40%
Solvent 1	-	20 - 30%
Naphtha (petroleum), light alkylate	64741-66-8	20 - 30%
Methyl alcohol	67-56-1	1 - 10%
Solvent 2	-	1 - 5%
Glycol ether	-	1 - 5%
Release blend	Proprietary	5 - 15%

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:	No information available
Notes to physician:	Methanol can cause intoxication and central nervous system depression. It is metabolized to formic acid and formaldehyde, which can cause metabolic acidosis, visual disturbances, and blindness. Their onset may be delayed from 6 to 30 hours following ingestion. Ethanol has been used to prevent methanol metabolism. Ethanol administration is indicated in symptomatic patients or at blood methanol concentrations above 20 ug/dl. Methanol is effectively removed by hemodialysis. Pre-existing disorders of the following organs or organ systems may be aggravated by exposure to methanol: skin, lungs (including asthma-like conditions), liver, kidney, central nervous system, pancreas, heart,. Exposure to methanol may aggravate any pre-existing condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease, or anemias..

5. FIRE-FIGHTING MEASURES

Flash point:	29 °F , -2°C (Tagliabue Closed Cup, ASTM D 56)
Flame extension test, inches (aerosol products only):	Not applicable, 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
o-Xylene	95-47-6	100 ppm 150 ppm	-	-	-
Solvent 1	-	-	-	-	-
Naphtha (petroleum), light alkylate	64741-66-8	-	-	-	-
Methyl alcohol	67-56-1	200 ppm 250 ppm	200ppmTWA 260mg/m ³ TW A	-	-
Solvent 2	-	-	-	-	-
Glycol ether	-	-	-	-	-
Release blend	Proprietary	-	-	-	-

Engineering measures: 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.

Mono-Coat® 1910RP

9. PHYSICAL AND CHEMICAL PROPERTIES

Initial boiling point:	142 °F , 61 °C
Specific gravity:	0.84
Bulk density (lb/gal):	7.03
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 (%):	80 - 90%
Water solubility:	Insoluble
pH of concentrate:	Not applicable.
Melting point/range:	Not applicable
Flash point:	29 °F , -2°C (Tagliabue Closed Cup, ASTM D 56)
Flammability limits in air:	Percent by volume

Components	CAS-No.	Lower (%):	Upper (%):
o-Xylene	95-47-6	1.0	7.8
Naphtha (petroleum), light alkylate	64741-66-8	0.91	6.3
Methyl alcohol	67-56-1	5.5	36.0
Solvent 2	-	0.90	13.8
Glycol ether	-	1.1	13.4

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
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

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5

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11. TOXICOLOGICAL INFORMATION

Component Information:

Components	CAS-No.	LD50 Oral	LD50 Dermal	LC50 Inhalation
o-Xylene	95-47-6	2180 ppm (Rat) 3609 mg/kg (Rat)	2180 ppm (Rat) 3609 mg/kg (Rat)	2180 ppm (Rat) 4 h
Solvent 1	-	16 mL/kg (Rabbit) 48 mg/L (Rat) 5000 mg/kg (Rat)	16 mL/kg (Rabbit) 48 mg/L (Rat) 5000 mg/kg (Rat)	48 mg/L (Rat) 1 h
Naphtha (petroleum), light alkylate	64741-66-8	2000 mg/kg (Rabbit) 5.04 mg/L (Rat) 7000 mg/kg (Rat)	2000 mg/kg (Rabbit) 5.04 mg/L (Rat) 7000 mg/kg (Rat)	5.04 mg/L (Rat) 4 h
Methyl alcohol	67-56-1	15800 mg/kg (Rabbit) 5628 mg/kg (Rat) 64000 ppm (Rat) 83.2 mg/L (Rat)	15800 mg/kg (Rabbit) 5628 mg/kg (Rat) 64000 ppm (Rat) 83.2 mg/L (Rat)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h
Solvent 2	-	-	-	-
Glycol ether	-	3100 mg/kg (Rabbit) 5660 µL/kg (Rat)	3100 mg/kg (Rabbit) 5660 µL/kg (Rat)	-
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.

Eye contact:

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Inhalation:

High levels above the TLV cause stupor, headache, nausea, dizziness, unconsciousness, and may produce adverse effects on vision.

Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, and diarrhea. Material entering lungs during swallowing or vomiting causes lung inflammation and other lung injury. Harmful or fatal if swallowed.

Sensitization:

No information available.

Other effects:

Other signs and symptoms of exposure to methanol through skin absorption, inhalation, and ingestion include: gastrointestinal upset (nausea, vomiting, diarrhea), respiratory tract irritation, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), leg cramps, abdominal and lumbar pain, blurred vision, shortness of breath, cyanosis, visual impairment (including blindness), coma, and death

Chronic effects

Carcinogenic effects:

Components	CAS-No.	NTP:	IARC:	OSHA:
o-Xylene	95-47-6	No	No	No
Solvent 1	-	No	No	No
Naphtha (petroleum), light alkylate	64741-66-8	No	No	No
Methyl alcohol	67-56-1	No	No	No
Solvent 2	-	No	No	No
Glycol ether	-	No	No	No
Release blend	Proprietary	No	No	No

Mutagenic effects:

No information available

11. TOXICOLOGICAL INFORMATION

Reproductive toxicity: No information available.

Target organ effects: Significant exposure to methanol may adversely effect people with chronic disease of the central nervous system, skin, gastrointestinal tract, or eyes
Exposure to lethal concentrations of methanol has been shown to cause damage to the following organs: liver, kidneys, pancreas, heart, lungs, and brain. In rare occurrences, survivors of severe intoxication may suffer from permanent neurological damage

12. ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

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.
F003 because of the presence of acetone, methanol, xylene, or ethylbenzene.

14. TRANSPORT INFORMATION

IMDG - Marine Pollutants This product contains at least one ingredient that is classified as a marine pollutant by the International Maritime Organization or that is considered by our raw material supplier to be a marine pollutant.

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 o-Xylene , Hydrocarbon naphtha)	3		II
DOT - Bulk	UN1993	Flammable liquids, n.o.s.	(Contains o-Xylene , Hydrocarbon naphtha)	3		II
Canadian TDG	UN1993	Flammable liquid, n.o.s.	(Contains o-Xylene , Hydrocarbon naphtha)	3		II
ICAO/IATA	UN1993	Flammable liquid, n.o.s.	(Contains o-Xylene , Hydrocarbon naphtha)	3		II
IMO/IMDG	UN1993	Flammable liquid, n.o.s.	(Contains o-Xylene , Hydrocarbon naphtha)	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
o-Xylene	95-47-6	30 - 40%	100 lb 1000 lb
Solvent 1	-	20 - 30%	-
Naphtha (petroleum), light alkylate	64741-66-8	20 - 30%	-
Methyl alcohol	67-56-1	1 - 10%	5000 lb
Solvent 2	-	1 - 5%	-
Glycol ether	-	1 - 5%	-
Release blend	Proprietary	5 - 15%	-

SARA (302) Extremely Hazardous Substances and RQs

Components	CAS-No.	Weight %	RQs
o-Xylene	95-47-6	30 - 40%	-
Solvent 1	-	20 - 30%	-
Naphtha (petroleum), light alkylate	64741-66-8	20 - 30%	-
Methyl alcohol	67-56-1	1 - 10%	-
Solvent 2	-	1 - 5%	-
Glycol ether	-	1 - 5%	-
Release blend	Proprietary	5 - 15%	-

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
o-Xylene	95-47-6	30 - 40%	X
Solvent 1	-	20 - 30%	Not Listed
Naphtha (petroleum), light alkylate	64741-66-8	20 - 30%	Not Listed
Methyl alcohol	67-56-1	1 - 10%	X
Solvent 2	-	1 - 5%	Not Listed
Glycol ether	-	1 - 5%	Not Listed
Release blend	Proprietary	5 - 15%	Not Listed

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 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 (*)

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