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: Chemlease® MPP 117

2. HAZARDS IDENTIFICATION

Physical State: Liquid

Appearance Liquid

Color: Clear Slightly Yellow

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 %
Methyl alcohol	67-56-1	40 - 50%
Toluene	108-88-3	20 - 30%
VM&P Naphtha	-	10 - 20%
Glycol ether	-	1 - 5%
Release blend	-	10 - 20%

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:	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.. 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 center immediately.
Aggravated Medical Conditions:	Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: respiratory tract, skin, lung (for example, asthma-like conditions), kidney, immune system, eye. Exposure to this material may aggravate any preexisting condition sensitive to a decrease in available oxygen, such as chronic lung disease, coronary artery disease or anemias. Individuals with erythrocyte glucose-6-phosphate dehydrogenase deficiency are particularly susceptible to hemolytic agents and rapidly develop hemolytic anemia from ingestion or inhalation of this material (or a component). .
Notes to physician:	Inhalation of high concentrations of toluene may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to toluene. Toluene is an aspiration hazard. Potential danger form aspiration must be weighed against possible oral toxicity when deciding whether or not to induce vomiting.. 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:	40 °F , 4°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
Methyl alcohol	67-56-1	200 ppm 250 ppm	200ppmTWA 260mg/m^{3}TWA	-	-
Toluene	108-88-3	20 ppm	200ppmTWA 300ppmCeiling	-	-
VM&P Naphtha	-	-	-	-	-
Glycol ether	-	-	-	-	-
Release blend	-	-	-	-	-

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Initial boiling point: 150 °F , 66 ºC

Specific gravity: 0.84
Bulk density (lb/gal): 7.01

Vapor pressure (mm Hg, 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: 40 °F , 4°C (Tagliabue Closed Cup, ASTM D 56)

Flammability limits in air: Percent by volume

Components	CAS-No.	Lower (%):	Upper (%):
Methyl alcohol	67-56-1	5.5	36.0
Toluene	108-88-3	1.2	7.0
VM&P Naphtha	-	0.9	6.7
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

Component Information:

Components	CAS-No.	LD50 Oral	LD50 Dermal	LC50 Inhalation (Vapor)
Methyl alcohol	67-56-1	5628 mg/kg (rat)	-	-
Toluene	108-88-3	636 mg/kg (rat)	8390 mg/kg (rabbit)	26700 ppm (rat)
VM&P Naphtha	-	5000 mg/kg (rat)	3160 mg/kg (rabbit)	73680 ppm (rat)
Glycol ether	-	-	-	-
Release blend	-	-	-	-

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

Skin contact: Prolonged contact may defat skin, causing irritation and/or dermatitis. Causes mild skin irritation and drying of the skin.

Eye contact: Contact with eyes may cause irritation. 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. Health injuries are not known or expected under normal use.

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 toluene through skin absorption, inhalation, and ingestion include: metallic taste, gastrointestinal upset (nausea, vomiting, diarrhea), respiratory tract irritation, central nervous system excitation (giddiness, liveliness, light-headedness), followed by central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects, temporary changes in mood and behavior, muscle weakness, loss of coordination, confusion, irregular heartbeat, coma, and death
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:
Methyl alcohol	67-56-1	No	No	No
Toluene	108-88-3	No	No	No
VM&P Naphtha	-	No	No	No
Glycol ether	-	No	No	No
Release blend	-	No	No	No

Mutagenic effects: Toluene may be harmful to the human fetus based on positive test results with laboratory animals.

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 occurences, survivors of severe intoxication may suffer from permanent neurological damage
Overexposure to toluene can cause cardiac sensitization and kidney 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.
F005 because of the presence of toluene or methyl ethyl ketone.

14. TRANSPORT INFORMATION

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

Emergency Response Guidebook (ERG) No: 131

Mode of Transportation:	UN/NA ID No:	Proper shipping name:	Technical name	Hazard Class:		Packing group:
DOT - Non-Bulk	UN1992	Flammable liquid, toxic, n.o.s.	(Contains Toluene , Methanol)	3, (6.1)		II
DOT - Bulk	UN1992	Flammable liquid, toxic, n.o.s.	(Contains Toluene , Methanol)	3, (6.1)		II
Canadian TDG	UN1992	Flammable liquid, toxic, n.o.s.	(Contains Toluene , Methanol)	3, (6.1)		II
ICAO/IATA	UN1992	Flammable liquid, toxic, n.o.s.	(Contains Toluene , Methanol)	3, (6.1)		II
IMO/IMDG	UN1992	Flammable liquid, toxic, n.o.s.	(Contains Toluene , Methanol)	3, (6.1)		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
Methyl alcohol	67-56-1	40 - 50%	5000 lb
Toluene	108-88-3	20 - 30%	10 lb final RQ 45.4 kg final RQ
VM&P Naphtha	-	10 - 20%	-
Glycol ether	-	1 - 5%	-
Release blend	-	10 - 20%	-

SARA (302) Extremely Hazardous Substances and RQs

Components	CAS-No.	Weight %	TPQ
Methyl alcohol	67-56-1	40 - 50%	-
Toluene	108-88-3	20 - 30%	-
VM&P Naphtha	-	10 - 20%	-
Glycol ether	-	1 - 5%	-
Release blend	-	10 - 20%	-

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
Methyl alcohol	67-56-1	40 - 50%	X
Toluene	108-88-3	20 - 30%	X
VM&P Naphtha	-	10 - 20%	Not Listed
Glycol ether	-	1 - 5%	Not Listed
Release blend	-	10 - 20%	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 NZIoC
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/Not available

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

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