

MATERIAL SAFETY DATA SHEET

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

Telephone numbers:	(517) 546-4520
Manufacturer/Supplier:	CHEM-TREND LIMITED PARTNERSHIP P.O. BOX 860 HOWELL, MI 48844-0860
Product Name:	CHEMLEASE R&B

2. HAZARDS IDENTIFICATION

Physical State:	Liquid
Appearance:	Liquid
Color:	Off-white
Odor:	Aromatic
Emergency Overview:	DANGER: FLAMMABLE! Vapors may travel to a source and flash back.
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 %
N-Heptane	142-82-5	50 - 60%
Aromatic petroleum distillates	64742-95-6	20 - 30%
1,2,4-Trimethylbenzene	95-63-6	10 - 20%
1,3,5-Trimethylbenzene	108-67-8	1 - 5%
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5%
Resin blend	Proprietary	1 - 5%

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:	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.

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4. FIRST AID MEASURES

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

5. FIRE-FIGHTING MEASURES

Flash point:	20 °F , -7°C (Pensky-Martens, ASTM D 93, ISO 1523, DIN 51 755)
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 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.

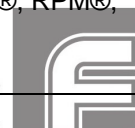
7. HANDLING AND STORAGE

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.

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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
N-Heptane	142-82-5	400 ppm 500 ppm	=500ppmTWA =2000mg/m ³ TWA	-	-
Aromatic petroleum distillates	64742-95-6	-	-	-	-
1,2,4-Trimethylbenzene	95-63-6	25 ppm	-	-	-
1,3,5-Trimethylbenzene	108-67-8	25 ppm	-	-	-
Xylenes (o-, m-, p-isomers)	1330-20-7	100 ppm 150 ppm	=100ppmTWA =435mg/m ³ TWA	-	-
Resin 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:**

306 °F , 152 °C

Specific gravity:

0.77

Bulk density (lb/gal):

6.42

Vapor pressure

No information available.

in mm Hg at 20 °C (68 °F):

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9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor density (air = 1):	>1
Evaporation rate:	<1 (n-butyl acetate = 1)
Volatiles content (%):	90 - 100%
Solubility in water:	Insoluble
pH of concentrate:	Not applicable.
Melting point/range:	Not applicable
Flash point:	20 °F , -7°C (Pensky-Martens, ASTM D 93, ISO 1523, DIN 51 755)
Flammability limits in air:	Percent by volume

Ingredient	CAS Registry Number	Lower (%):	Upper (%):
N-Heptane	142-82-5	1.0	6.7
Aromatic petroleum distillates	64742-95-6	1.0	7.0
1,2,4-Trimethylbenzene	95-63-6	0.9	6.4
1,3,5-Trimethylbenzene	108-67-8	No information available	No information available
Xylenes (o-, m-, p-isomers)	1330-20-7	1.0	6.6

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.
Hazardous decomposition products:	Carbon oxides. Formaldehyde may be evolved at elevated temperatures.
Polymerization:	Hazardous polymerisation does not occur.

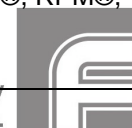
11. TOXICOLOGICAL INFORMATION

Acute toxicity				
Component Information:				
Ingredient	CAS Registry Number	LD50 Oral	LD50 Dermal	LC50 Inhalation
N-Heptane	142-82-5	-	3000 mg/kg (Rabbit)	103 g/m ³ (Rat) 4 h

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11. TOXICOLOGICAL INFORMATION

Aromatic petroleum distillates	64742-95-6	8400 mg/kg (Rat)	2000 mg/kg (Rabbit)	3400 ppm (Rat) 4 h 5.2 mg/L (Rat) 4 h
1,2,4-Trimethylbenzene	95-63-6	3400 mg/kg (Rat)	3160 mg/kg (Rabbit)	18 g/m ³ (Rat) 4 h
1,3,5-Trimethylbenzene	108-67-8	5000 mg/kg (Rat)	-	24 g/m ³ (Rat) 4 h
Xylenes (o-, m-, p- isomers)	1330-20-7	4300 mg/kg (Rat)	1700 mg/kg (Rabbit)	5000 ppm (Rat) 4 h
Resin 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:

May cause eye irritation.

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, vomiting 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:**

Ingredient	CAS Registry Number	NTP:	IARC:	OSHA:
N-Heptane	142-82-5	No	No	No
Aromatic petroleum distillates	64742-95-6	No	No	No
1,2,4-Trimethylbenzene	95-63-6	No	No	No
1,3,5-Trimethylbenzene	108-67-8	No	No	No
Xylenes (o-, m-, p- isomers)	1330-20-7	No	No	No
Resin blend	Proprietary	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.

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13. DISPOSAL CONSIDERATIONS

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

US EPA Waste code(s): D001 because of its ignitability if the product is disposed of in its original form.

14. TRANSPORTATION INFORMATION

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

Emergency Response Guidebook 128 (ERG) No:

DOT

UN/NA ID No: UN1866
Proper shipping name: Resin solution
Hazard Class: 3
Packing group: II

ICAO/IATA

UN ID No: UN1866
Proper shipping name: Resin solution
Hazard Class: 3
Packing group: II

IMDG/IMO

UN ID no: UN1866
Proper shipping name: Resin solution
Hazard class: 3
Packing group: II

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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
N-Heptane	142-82-5	50 - 60%	-
Aromatic petroleum distillates	64742-95-6	20 - 30%	-
1,2,4-Trimethylbenzene	95-63-6	10 - 20%	-
1,3,5-Trimethylbenzene	108-67-8	1 - 5%	-
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5%	100 lb
Resin blend	Proprietary	1 - 5%	-

SARA (302) Extremely Hazardous Substances and RQs

Ingredient	CAS Registry Number	Weight %	RQs
N-Heptane	142-82-5	50 - 60%	-
Aromatic petroleum distillates	64742-95-6	20 - 30%	-
1,2,4-Trimethylbenzene	95-63-6	10 - 20%	-
1,3,5-Trimethylbenzene	108-67-8	1 - 5%	-
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5%	-
Resin blend	Proprietary	1 - 5%	-

SARA (311/312) Classification:**Acute health hazard:** Yes**Chronic health hazard:** No**Fire:** Yes**Sudden release of pressure:** No**Reactive:** No**SARA (313) Toxic Chemicals**

Ingredient	CAS Registry Number	Weight %	SARA (313) List
N-Heptane	142-82-5	50 - 60%	Not Listed
Aromatic petroleum distillates	64742-95-6	20 - 30%	Not Listed
1,2,4-Trimethylbenzene	95-63-6	10 - 20%	X
1,3,5-Trimethylbenzene	108-67-8	1 - 5%	Not Listed
Xylenes (o-, m-, p- isomers)	1330-20-7	1 - 5%	X
Resin blend	Proprietary	1 - 5%	Not Listed

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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 NDSL
China:	This product complies with CLECS.
Europe:	This product complies with EINECS
Japan:	This product complies with ENCS/MITI.
Korea:	This product does not comply with 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: 1 **Flammability:** 3 **Physical hazard:** 0 **Personal Protection code:** H

National Fire Protection Association (USA):

Health: 1 **Flammability:** 3 **Instability:** 0 **Special Hazards:** None

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

Prepared by: Karen M. Kuroda

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Print date: 04/10/2008

Disclaimer

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