

Material Safety Data Sheet

GruberCare MR Solvent Cleaner
Revision Date: 9 May 2011
Revision No: 10

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

IDENTIFICATION OF SUBSTANCE/PREPARATION: MR Solvent Cleaner
SYNONYMS: Polymeric Solution
APPLICATIONS: Industrial Mold/Form Cleaner

MANUFACTURER/SUPPLIER: Gruber Systems
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USA

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EMERGENCY TELEPHONE NO: (800) 255-3924 (within the U.S.) (Chemtel)
(813) 248-0585 (outside the U.S.) (Chemtel)

2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	Concentration	ACGIH TLV	OSHA PEL	OTHER
NAPHTA (PETROL.) HYDROTREATED HEAVY C.A.S. number 64742-48-9	100%	None	None	400 pm TWA

3 HAZARDS IDENTIFICATION

HMIS CLASSIFICATION Health 1
Flammability 2
Physical Hazard 0
Personal Protection: See section 8

This product is considered hazardous according to regulatory guidelines (See section 15).
EMERGENCY OVERVIEW: Clear, Colorless liquid. Material is combustible. Liquid can release vapors that readily form flammable mixtures at or above the flash point. Product can accumulate a static charge which may cause a fire or explosion. DOT ERG No. : 128\ Potential Health Effects: Slightly irritating to the eyes. Prolonged repeated skin contact may cause skin irritation and/ or dermatitis. High vapor/aerosol concentrations are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Low viscosity material-if swallowed may enter the lungs and cause lung damage. For further health effects/toxicological data, see Section 11.

NOTICE: This product is not to be supplied, sold or offered for sale within the State of California, and especially not within the jurisdiction of the South Coast Air Quality Management District (SCAQMD)

4 FIRST AID MEASURES

EYE CONTACT: Flush thoroughly with water. If irritation occurs, call a physician.
SKIN CONTACT: Wash contact areas with soap and water. Immediately remove contaminated clothing. Launder contaminated clothing before reuse. (See Section 16- Injection Injury)
INHALATION: Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation.
INGESTION: Seek immediate medical attention. Do not induce vomiting.
NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause chemical pneumonitis.

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PREEXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE:

Hydrocarbon Solvents/Petroleum Hydrocarbons - Skin contact may aggravate an existing dermatitis.

5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical and water fog.

SPECIAL FIRE FIGHTING PROCEDURES: Water should be used to keep fire-exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. This liquid is volatile and gives off invisible vapors. Either the liquid or the vapor may settle in low areas or travel some distance along the ground or surface to ignition sources, where they may ignite or explode. **SPECIAL**

PROTECTIVE EQUIPMENT: For fires in enclosed areas, fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material is combustible. Liquid can release vapors that readily form flammable mixtures at or above the flash point. Product can accumulate a static charge which may cause a fire or explosion.

COMBUSTIBLE PRODUCTS: Carbon monoxide, carbon dioxide, water.

Flash Point: >40°C (104°F) (ASTM D-56).

Flammable limits (approx. % vol. in air) – LEL: 7%, UEL: 5.6%

NFPA HAZARD:

Health 1,
Flammability 2,
Reactivity 0

6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases as required to appropriate authorities. U.S. Coast Guard and EPA regulations require immediate reporting of spills/releases that could reach any waterway including intermittent dry creeks. Report spill/release to Coast Guard National Response Center toll free 800-424-8802. In case of accident or road spill notify Chemtrec 800-424-9300.

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Eliminate sources of ignition. Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping using explosion-proof equipment or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.

WATER SPILL: Eliminate sources of ignition and warn other ships in the vicinity to stay clear. Notify port and other relevant authorities. Confine with booms if skimming equipment is available to recover the spill. Otherwise, disperse in unconfined waters, if permitted by local authorities and environmental agencies. If permitted by regulatory authorities the use of suitable dispersants should be considered where recommended in local oil spill procedures.

PERSONAL PRECAUTIONS: See Section 8.

7 HANDLING AND STORAGE

HANDLING: Keep product away from high energy ignition sources, heat, sparks, pilot lights, static electricity, and open flame. Avoid inhalation of vapors or mists. Use in well ventilated area away from all ignition sources. Do not fill container in or on a vehicle. Static electricity may ignite vapors and cause fire. Place container on ground when filling and keep nozzle in contact with container. See Section 8 for additional personal protection advice when handling this product.

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- STORAGE:** Store in a cool area. Small containers of approved design, properly sealed and labeled, should be stored in well ventilated surroundings and kept out of reach of children. Eliminate all sources of ignition from the storage and handling area. Protect against direct sunlight.
- SPECIAL PRECAUTIONS:** To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system. Do not use electronic devices (including, but not limited to cellular phones, computers, calculators, pagers, etc.) in or around any fuelling operation or storage area unless the devices are certified intrinsically safe by an approved national testing agency and to the safety standards required by national and/or local laws and regulations. Electrical equipment and fittings must comply with local fire prevention regulations for this class of product. Use the correct grounding procedures. Refer to national or local regulations covering safety at petroleum handling and storage areas for this product.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls:** Use explosion proof mechanical ventilation and local exhaust to control contaminants to within their occupational exposure limits during the use of this product.
- Respiratory protection:** Use a NIOSH approved respirator if ventilation is inadequate.
- Skin Protection:** Use chemical resistant, impermeable clothing including gloves and aprons.
- Eye Protection:** Use chemical resistant safety glass

The use of local exhaust ventilation is recommended to control process emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. During application and drying, traces of solvent vapours will be emitted. Ventilate well. Avoid breathing vapours. Avoiding spilling, skin and eye contact. Use approved respirator if air contamination is above accepted level. Wear full protective clothing for prolonged exposure and/or high concentrations.

PROTECTIVE EQUIPMENT:

RESPIRATORY PROTECTION: Provide adequate general and local exhaust ventilation. At least 10 air changes per hour are recommended. If high concentrations of vapours in air recommended to use a half face filter mask to protect from over exposure by inhalation.

HAND PROTECTION: Recommend to wear chemical resistant gloves. Gloves should be replaced immediately if signs of degradation are observed.

EYE PROTECTION: Wear approved chemical safety glasses/goggles where eye exposure is possible. Contact lenses should not be worn when working with this chemical.

OTHER PROTECTIVE EQUIPMENT AND HYGIENIC WORK PRACTICES:

Wear appropriate clothing to prevent any possibility of skin contact. Wash promptly if skin becomes contaminated. Wash at the end of each shift and before eating, smoking and using the toilet. Provide eye wash.

EMPTY CONTAINER WARNING: Empty containers retain residue (liquid and /or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition: they may explode and cause injury or death. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

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9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE:	Liquid
COLOR:	Clear, colorless
ODOR:	Mild Hydrocarbon
ODOR THRESHOLD:	NE
pH:	NA
BOILING POINT °C (°F):	>163 (325)
MELTING POINT:	NA
FLASH POINT °C (°F):	>40 (104) ASTM D-56
FLAMMABILITY (solids):	NE
AUTO FLAMMABILITY °C (°F):	365 (689)
EXPOSIVE PROPERTIES:	NA
OXIDIZING PROPERTIES:	NA
VAPOR PRESSURE-mmHg 20°C:	1.7
VAPOR DENSITY:	5.0
EVAPORATION RATE (1=n-butyl acetate):	0.2
RELATIVE DENSITY, 15/4 c:	0.75
SOLUBILITY IN WATER:	Negligible
PARTITION COEFFICIENT:	NE
VISCOSITY AT 40°C, cSt:	NE
VISCOSITY AT 100°C cSt:	NE
POUR POINT °C (°F):	-57 (-71)
FREEZING POINT °C (°F):	NE
VOLATILE ORGANIC COMPOUND:	NE
DMSO EXTRACT, [P-346 (WT.%):	NA

NA = NOT APPLICABLE; **NE** = NOT ESTABLISHED

10 STABILITY AND REACTIVITY

STABILITY:	Stable.
CONDITIONS TO AVOID:	Heat, Sparks, Open flames. Other sources of ignition.
MATERIALS TO AVOID:	Strong oxidising agents.
HAZARDOUS DECOMPOSITION PRODUCTS:	Material does not decompose at ambient temperatures.

11 TOXICOLOGICAL INFORMATION

ACUTE TOXICOLOGY:
ORAL TOXICITY (Rats): Not established
DERMAL TOXICITY (Rabbits): Not established
INHALATION TOXICITY (Rats): Not established.
EYE IRRITATION: (Rabbits): Not established.
SKIN IRRITATION (Rabbits): Not established.
CHRONIC TOXICOLOGY (Summary)
Prolonged repeated skin contact may cause skin irritation and/or dermatitis.

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12 ECOLOGICAL INFORMATION

ECOTOXICITY

- Expected to be toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

ENVIRONMENTAL MOBILITY

- Highly volatile, and will partition rapidly to air.
- Not expected to partition to sediment and wastewater.

ENVIRONMENTAL DEGRADABILITY

- Expected to degrade rapidly in air.
- Expected to inherently biodegradable.

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: Confirm disposal procedures with environmental engineer and local regulations.

14 TRANSPORT INFORMATION

The flash point of this material is >104° F. Regulatory classification vary as follows:

DOT:	Flammable liquid or combustible Liquid (49CFR173.120 (b) (2)).
OSHA:	Combustible Liquid
IATA/IMO:	Flammable Liquid
Shipping Name:	Petroleum Distillates, n.o.s. (Hydro Treated Naptha)
Hazard Class and Division:	Combustible Liquid
UN Number	UN1268
ERG Number:	128
Packing Group:	PG III
STCC:	NE
Placard:	Combustible Liquid or Flammable Liquid
Other:	Non bulk quantities <119 gallons may be shipped as non regulated for domestic USA shipments

15 REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD: Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

Governmental Inventory Status: All components comply with TSCS.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES"

SARA (311/312) REPORTABLE HAZARD CATEGOREIS: FIRE

This product contains no chemicals subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

****NO REPORTABLE INGREDIENTS****

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16 OTHER INFORMATION

DISCLAIMER:

The information and recommendations contained herein are based upon data believed to be correct. However, no warranty is expressed or implied regarding the accuracy of this data or the result to be obtained from the use thereof. Health and Safety precautions detailed in this data sheet may not be adequate for all individuals and/or situations.

It is the user's obligation to evaluate and use the data in order to comply with all applicable laws and regulations. It is the user's obligation to determine the suitability of use of the product for a particular application.

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