

Safety Data Sheet

GruberCare MR 2-IN-1

SDS No. 20012.00

Date of Preparation: 7/23/15

Revision: 7/23/15

Section 1 - Chemical Product and Company Identification

Product/Chemical Name: GruberCare MR 2-IN-1

General Use: Release agent

Uses advised against: Unsuitable for the Do-It-Yourself

Manufacturer: Marshall-Gruber Company, LLC
A subsidiary of The R. J. Marshall Company
220 Airport Drive
Mansfield, TX 76063
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Date Revised: 7/23/15

Preparer: Stephanie Nichols

Section 2 – Hazards Identification

Classification of the chemical in accordance with paragraph (d) of 1910.1200: Hazardous.

GHS Classifications:

Flammable Liquid Category 3

Aspiration Toxicity Category 1

STOT SE Category 3

Aquatic Chronic Category 3

Signal words: Danger



Symbol:

Hazard statements:

H226: Flammable liquid and vapor.

H304: May be fatal if swallowed and enters airways.

H336: May cause drowsiness or dizziness.

H412: Harmful to aquatic life with long lasting effects.

EUH066: repeated exposure may cause skin dryness or cracking.

Precautionary statements:

P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P233: Keep container tightly closed.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P370+P378: In case of fire: Use powder fire extinguisher for extinction.

EU Hazard Classification per Directive 1999/45/EC and 67/548/EEC:

Classification: [Xn] Harmful

Risk Phrases: R10: Flammable, R52/53: Harmful to aquatic organisms, may cause long-term adverse aquatic effects in the environment R65: Harmful: may cause lung damage if swallowed, R66: Repeated exposure may cause skin dryness or cracking, R67: Vapors may cause drowsiness and dizziness.

Hazards not otherwise classified: None

Section 3 – Composition/Information on Ingredients

Chemical Name	CAS#	EINECS#	Weight %
Hydrocarbons, C9-C10, N-Alkanes, isoalkanes, cyclics, <2% Aromatics	-----	927-241-2	50-65%
Hydrocarbons, C9-C11, N-Alkanes, isoalkanes, cyclics, <2% Aromatics	-----	919-857-5	45-60%

Section 4 - First Aid Measures

Description of necessary measures, subdivided according to the different routes of exposure:

Inhalation: Remove to fresh air. In the event of breathing difficulties, get medical advice/attention immediately.

Eye Contact: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

Skin Contact: Remove contaminated clothing. Wash skin thoroughly with plenty of water. Consult a physician if irritation persists. Wash contaminated clothing before using it again.

Ingestion: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorized by a doctor.

Most important symptoms/effects, acute and delayed: See Section 11.

Indication of immediate medical attention and special treatment needed: Information not available.

Section 5 - Fire-Fighting Measures

Suitable Extinguishing Media: Chemical powder, foam, carbon dioxide. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapors and protect those trying to stem the leak.

Unsuitable Extinguishing Media: Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

Unusual Fire or Explosion Hazards: Hazards caused by exposure in the event of fire: Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

Fire-Fighting Instructions: General Information: Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

Special protective equipment for Fire-Fighters: Normal fire-fighting clothing i.e. fire kit (BS EN469), gloves (BS EN659), and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN137).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Send away individuals who are not suitably equipped. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

Environmental precautions: Information not available.

Methods and materials for containment and cleaning up: Information not available.

Section 7 - Handling and Storage

Precautions for safe handling: Keep away from heat, sparks, and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapors may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink, or smoke during use. Avoid leakage of the product into the environment. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

Conditions for safe storage, including any incompatibilities: Store only in the original container. Store in a well-ventilated place, keep far away from sources of heat, naked flames and sparks, and other sources of ignition. Keep containers away from any incompatible materials.

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:**Protective Clothing/Equipment:**

Hand protection: Protect hands with category III work gloves (see standard EN374).

Skin protection: Wear category I professional long-sleeved overalls and safety footwear (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing. Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

Eye protection: Wear airtight protective goggles (see standard EN166).

Respiratory protection: If the threshold value is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2, or 3) must be chosen according to the limit of use concentration (see standard EN14387). In the presence of gases or vapors of various kinds and/or gases or vapors containing particulate (aerosol sprays, fumes, mists, etc.) combined fillers are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited. If the substance considered is odorless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN137) or external air-intake breathing apparatus (in compliance with standard EN138). For a correct choice of respiratory protection device, see standard EN529.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Ingredient	OSHA PEL		ACGIH TLV	
	TWA	STEL	TWA	STEL
Hydrocarbons, C9-C11, N-Alkanes, isoalkanes, cyclics, <2% Aromatics	None established	None established	1200 mg/m ³ 197 ppm	None established
Hydrocarbons, C9-C10, N-Alkanes, isoalkanes, cyclics, <2% Aromatics	None established	None established	1200 mg/m ³ 226 ppm	None established

Hydrocarbons, C9-C11, N-Alkanes, isoalkanes, cyclics, <2% Aromatics

Route of exposure	Effects on Consumers		Effects on Workers	
	Chronic Local	Chronic Systemic	Chronic Local	Chronic Systemic
Oral	VND mg/kg	125 mg/kg		
Inhalation	VND mg/m ³	185 mg/m ³	VND mg/m ³	871 mg/m ³
Skin	VND mg/kg	125 mg/kg	VND mg/kg	208 mg/kg

Hydrocarbons, C7-C9, N-Alkanes, Isoalkanes, Cyclics

Route of exposure	Effects on Consumers		Effects on Workers	
	Chronic Local	Chronic Systemic	Chronic Local	Chronic Systemic
Oral	VND mg/kg	300 mg/kg		
Inhalation	VND mg/m ³	900 mg/m ³	VND mg/m ³	1500 mg/m ³
Skin	VND mg/kg	300 mg/kg	VND mg/kg	300 mg/kg

VND= hazard identified but no DNEL/PNEC available

Section 9 - Physical and Chemical Properties

Appearance: liquid, colorless

Odor: characteristic

Odor Threshold: not available

pH: not available

Freezing/Melting Point: not available

Boiling Point: not available

Flash Point: 78.8°F (26°C)

Flash Point Method: not available

Evaporation Rate: not available

Flammability: not available

Upper/lower flammability or explosive limits: not available

Vapor Pressure: not available

Vapor Density (Air=1): >1

Relative Density: 0.762 kg/l

Water Solubility: insoluble

Other Solubilities: miscible with organic solvents

Partition coefficient: n-octanol/water; not available

Auto-ignition Temperature: >392°F (>200°C)

Decomposition Temperature: not available

Viscosity: not applicable

Calculated VOC: 97.18% 740.51 g/l

Section 10 - Stability and Reactivity

Reactivity: None known.

Chemical Stability: This product is stable at room temperature in closed containers under normal storage and handling conditions.

Possibility of hazardous reactions: The vapors may form explosive mixtures with the air.

Conditions to Avoid: Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

Incompatible materials: Information not available

Hazardous Decomposition Products: Thermal decomposition may produce gases and vapors that are potentially dangerous to health.

Section 11- Toxicological Information

Information on the likely routes of exposure: Skin and Ingestion.

Symptoms related to the physical, chemical, and toxicological characteristics:

Skin: May have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

Ingestion: The introduction of even small quantities of this liquid into the respiratory system in case of ingestion or vomit may cause bronchopneumonia and pulmonary edema.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, narcosis.

Delayed and immediate effects and also chronic effects from short and long-term exposure: See above.

Numerical measures of toxicity:

Hydrocarbons, C9-C11, N-Alkanes, Isoalkanes, Cyclics, <2% Aromatics

LD₅₀ (Oral) >15000 mg/kg Rat

LD₅₀ (Dermal) >3.160 mg/kg Rabbit

LC₅₀ (Inhalation) >4.951 mg/l/4h Rat

Hydrocarbons, C9-C10, N-Alkanes, Isoalkanes, Cyclics, <2% Aromatics

LD₅₀ (Oral) >5000 mg/kg Rat

LD₅₀ (Dermal) >5000 mg/kg Rabbit

LC₅₀ (Inhalation) >4.951 mg/l/4h Rat

Carcinogenicity: Neither this product nor any of its components are considered carcinogenic by OSHA, IARC, NTP, or ACGIH.

Section 12 – Ecological Information

Eco-toxicity: This product is dangerous for the environment and is toxic for aquatic organisms. In the long-term, it will have negative effects on the aquatic environment.

Hydrocarbons, C9-C11, N-Alkanes, Isoalkanes, Cyclics, <2% Aromatics

LC₅₀ (Fish) >1.000 mg/l Oncorhynchus mykiss

EC₅₀ (Crustacea) 1.000 mg/l Daphnia magna

EC₅₀ (Algae/Aquatic Plants) >1.000 mg/l Pseudokirchneriella subcapitata

Hydrocarbons, C9-C10, N-Alkanes, Isoalkanes, Cyclics, <2% Aromatics

LC₅₀ (Fish) >10 mg/l Oncorhynchus mykiss

EC₅₀ (Crustacea) >22 mg/l Daphnia magna

EC₅₀ (Algae/Aquatic Plants) >1.0000 mg/l Pseudokirchneriella subcapitata

Persistence and degradability:

Hydrocarbons, C9-C11, N-Alkanes, Isoalkanes, Cyclics, <2% Aromatics: rapidly biodegradable

Hydrocarbons, C9-C10, N-Alkanes, Isoalkanes, Cyclics, <2% Aromatics: rapidly biodegradable

Bio-accumulative potential: information not available

Mobility in soil: information not available

Results of PBT and vPvB assessment: On the basis of available data, the product does not contain and PBT or vPvB in percentage greater than 0.1%.

Other adverse effects: None known.

Section 13 - Disposal Considerations

Disposal: Reuse when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorized waste management firm, in compliance with national and local regulations. Avoid littering. Do not contaminate soil, sewers, and waterways. Waste transportation may be subject to ADR restrictions.

Contaminated packaging: Must be recovered or disposed of in compliance with national waste management regulations.

Section 14 - Transport Information**DOT Transportation Data (49 CFR 172.101):**

These goods must be transported by vehicles authorized to the carriage of dangerous goods according to the provision set out in the current edition of the Code of International Carriage of Dangerous Goods by Road (ADR) and in all the applicable national regulations. These goods must be packed in their original packagings or in packagings made of materials resistant to their content and not reacting dangerously with it. People loading and unloading dangerous goods must be trained on all the risks deriving from these substances and on all actions that must be taken in case of emergency situations.

Road and Rail Transport:**UN Number:** UN1993**UN proper shipping name:** Flammable liquid n.o.s. (Hydrocarbons, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS; HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS).

ORM-D Ground Transport <1 gal

Transport hazard classes: Class 3**Packaging group:** PGIII**Environmental hazards:** No**Special precautions for user:** 640E**ADR/RID Class:** 3**Label:** 3**Nr. Kemler:** 30**Limited quantity:** 5 L**Tunnel restriction code:** D/E**Carriage by sea (shipping):****IMO Class:** 3**UN Number:** UN1993**UN proper shipping name:** Flammable liquid n.o.s. (Hydrocarbons, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS; HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS).**Transport hazard classes:** Class 3**Packaging group:** PGIII**Environmental hazards:** No**EMS:** F-E, S-E**Transport by air:****IATA:** 3**UN Number:** UN1993**UN proper shipping name:** Flammable liquid n.o.s. (Hydrocarbons, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS; HYDROCARBONS, C9-C11, N-ALKANES, ISOALKANES, CYCLICS, <2% AROMATICS).**Transport hazard classes:** Class 3**Packaging group:** PGIII

Cargo packaging instructions: 366 Maximum quantity: 220L

Passenger packaging instructions: 355 Maximum quantity: 60L

Section 15 - Regulatory Information**EPA Regulations:**

SARA Hazardous Chemical Section 311/312: Acute Health: Yes, Chronic Health: Yes, Fire: Yes, Reactivity: No

Seveso category: 6

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006:

Point 3-40

Substances in Candidate List (Art. 59 REACH): None

Substances subject to authorization (Annex XIV REACH): None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012: None

Substances subject to the Rotterdam Convention: None

Substances subject to the Stockholm Convention: None

Section 16 - Other Information

Prepared By: Stephanie Nichols

Revision Notes: updated to SDS format

Product Grades Available from the R. J. Marshall Company (this list may be incomplete):

MR0904

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