

1. PRODUCT AND COMPANY IDENTIFICATION

GHS Product name Heavy Duty Degreaser

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended use Heavy Duty Degreaser

Details of the supplier of the safety data sheet

Company information Manufacturer Address
RMR Solutions
2202 Grand Commerce Dr.
Howell, MI 48855
Ph: 866-822-8744
Fax: 810-227-5595
Website: rmr solutions.com

Emergency phone number Chemtel 800-255-3924

2. HAZARDS IDENTIFICATION

GHS Classification

GHS Classification Scale: (1=Severe Hazard, 4= Slight Hazard)

Physical Hazards Not Listed

Health Hazards

Eye irritation	Category 2
Skin irritation	Category 2

LABEL ELEMENTS

Signal Word

Warning

Hazard statements

Not Classified as hazardous



Precautionary Statements - Prevention

Keep out of reach of children.
Wash hands, face and all exposed skin areas after handling.
Wear protective gloves/eye protection/face protection/
protective clothing.

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses if easy to do. Continue rinsing. If
eye irritation persists, get medical advice/attention.

IF ON SKIN: Wash with plenty of water. If skin irritation
occurs: Get medical advice/attention. Take off
contaminated clothing and wash it before reuse.

Precautionary Statements - Storage

No special directive listed in GHS

Precautionary Statements - Disposal No special directive in GHS.

Other hazards Repeated or prolonged exposure can cause skin dryness or cracking.

3. PHYSICAL / CHEMICAL CHARACTERISTICS

Chemical name	CAS #	PERCENTAGE
Proprietary Surfactant	Proprietary	0-5
Water	7732-18-5	<90
Proprietary Surfactant	Proprietary	0-4
Proprietary Stabilizer	Proprietary	<3
Proprietary Surfactant	Proprietary	Proprietary

REMAINING INGREDIENTS ARE NOT REPORTABLE UNDER OSHA/SDS GUIDELINES. THE EXACT NAMES & PERCENTAGES OF SOME INGREDIENTS MAY HAVE BEEN WITHHELD AS (CBI) CONFIDENTIAL BUSINESS INFORMATION TRADE SECRET; HOWEVER ALL APPLICABLE FIRST AID/HEALTH INFORMATION HAS BEEN REPORTED ACCURATELY.

4. FIRST AID MEASURES

Description of first aid measures

Ingestion	If swallowed, drink copious amounts of water to dilute. Do not induce vomiting unless told to do so by doctor or physician. Seek medical advice/attention immediately. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.
Skin Contact	Remove contaminated clothing. Wash with soap and plenty of water for 15 minutes. Wash contaminated clothing before reuse. If irritation occurs get medical advice.
Inhalation	Move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician if you feel unwell.
Eye Contact	Rinse cautiously with water for 15 minutes. Remove contact lenses if easy to do. Continue rinsing. If irritation persists get medical attention/advice.

Most important symptoms and effects, both acute and delayed

Ingestion	Symptoms may include diarrhea, gastric pain, and vomiting.
Skin Contact	Symptoms may include redness, dryness and cracking of skin.
Inhalation	Symptoms may include irritation of respiratory tract.
Eye Contact	Symptoms may include stinging, tearing, redness and blurred vision.

Indication of any immediate medical attention and special treatment needed, if necessary.

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Use methods suitable for surrounding fire
Unsuitable Extinguishing Media	Not flammable.
Specific Hazards Arising from the Chemical	No further relevant information available.

Hazardous thermal decomposition products	Carbon monoxide and CO ₂
Special protective actions for fire-fighters	Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.
Environmental precautions	Avoid dispersal of spilled material with waterways, drains and sewers. See section 12 for additional ecological information.

Methods and materials for containment and cleaning up.

Small spill	Stop leak if without risk. Move containers from the spill area. Absorb with an inert dry material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.
Large spill	Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry material such as diatomaceous earth or vermiculite and place in a appropriate waste disposal containers. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to federal, state and local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling

Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mists. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep tightly closed when not in use. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where chemical products are handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene information.

Conditions for safe storage including any incompatibilities

Store in a dry, well ventilated area away from strong oxidizing agents (see section 10) and food and drink. Keep container tightly closed when not in use. Do not store in unlabeled containers. Keep away from children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium Carbonate	10mg/m ³	Total dust	

Appropriate Engineering Controls

Engineering Controls

Use with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and maintain air concentrations below occupational exposure standards.

Individual protection measures, such as personal protective equipment. (PPE)

Eye/Face Protection

Wear approved tightly sealed safety goggles

Skin & Body Protection

Wear chemical resistant, impervious gloves at all times when handling chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures cannot always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

Respiratory Protection

If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted NIOSH/MSHA air-purifying or air-fed respirator in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Lt. red liquid
Odor	Fresh
Odor Threshold	Not available
pH	10-10.5
Melting point / freezing point	Not determined
Initial boiling point and boiling range	>212F
Flash point	Not determined
Evaporation Rate	Not determined (butyl acetate=1)
Upper explosive limits	Not applicable
Lower explosive limits	Not applicable
Vapor Pressure	Not determined
Vapor Density	Not determined (air=1)
Relative Density	1.02
Water Solubility	Soluble
Partition Coefficient	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Water thin

10. STABILITY AND REACTIVITY

Reactivity	Stable in normal ambient temperature and pressure
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Not under normal conditions of storage and use.
Conditions to Avoid	Extreme temperatures
Incompatible materials	Oxidizing materials
Hazardous decomposition products	Carbon monoxide and Carbon Dioxide

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Not classified
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Skin corrosion irritation	Classified, Category 2, causes skin irritation
Serious Eye damage	Classified, Category 2, causes serious eye irritation
Sensitization	Not classified
Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive Toxicity	Not Classified
Teratogenicity	Not available

Specific target Organ Toxicity (single exposure)
Not classified

Specific target Organ Toxicity (repeated exposure)
Not Classified

Aspiration Hazard Not classified

Information on the likely routes of exposure

Ingestion Do not induce vomiting unless told to do so by a doctor or physician. See section IV.

Inhalation Prolonged exposure may cause irritation to respiratory tract

Skin Causes skin irritation important symptoms and effects, acute and delayed.

Eye Causes serious eye irritation

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion See section iv, most important symptoms and effects, acute and delayed.

Inhalation See section iv, most important symptoms and effects, acute and delayed.

Skin See section iv, most important symptoms and effects, acute and delayed.

Eye See section iv, most important symptoms and effects, acute and delayed.

Delayed and immediate effects and also chronic effects from short and long term exposure.

General Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis

Carcinogenicity No known significant effects or critical hazards. Not classifiable.

Numerical measures of Toxicity Not Available

12. ECOLOGICAL INFORMATION

Toxicity No further information

Persistence and degradability No further information

Bioaccumulation Potential No further information

Mobility in Soil No further information**Other adverse Effects** No further information.**13. DISPOSAL INFORMATION**

Dispose in accordance with applicable federal, state and local regulations.

14. TRANSPORT INFORMATION**DOT** Not regulated**IATA** Not regulated**IMDG** Not regulated**15. REGULATORY INFORMATION****US Federal Regulations** All ingredients are listed or exempted with TSCA.**SARA 302/304** No products were found.**SARA 311/312** Acute/chronic

Chemical name	%	Fire Hazard	Pressure Release	Reactive	Immediate Acute	Delayed Chronic
Proprietary Surfactant	0-5				Yes	Yes

SARA 313 None known above trace**STATE REGULATIONS**

Chemical name	New Jersey	Massachusetts	Pennsylvania

California Prop 65 None known to meet requirements**16. OTHER INFORMATION****HMIS RATING: HEALTH (1) FIRE (0) REACTIVITY (0)****4=EXTREME, 3=HIGH, 2=MODERATE, 1=SLIGHT, 0=INSIGNIFICANT****NOTICE TO READER:**

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