

MATERIAL SAFETY DATA SHEET

Issue Date: May 4, 2002

Identity: (As used on label and list)

GREASEMASTER R-300

SECTION I: Material & Manufacturer Identification

Product Name	GREASEMASTER R-300
Material Type	LIQUID
Product Use	DEGREASER CONCENTRATE/OIL SEPARATOR GREASE REMOVER/ALL PURPOSE CLEANER
Manufacturer Address	TMT Services Corp P.O. Box 11398 Torrance, CA 90510-1398
Emergency Phone	562-432-4868
Fax	310-782-8939
E-mail	rusteco@aol.com

SECTION II: Hazardous Ingredients & Identity Information

Hazard Data OSHA PEL

ACGIH TLV

**Based on constituent data: Oral LD50= (RAT) 1.26 g/Kg
Skin PIS (RBT) = Moderate
Eye Irritation (RBT) = Severe**

Ingredients Liquid Extract from organically grown plants

Made from ingredients generally regarded as safe or permissible under CFR 21/178.1010 and CFR 21/182 respectively

DOT Hazard Class:	Not Regulated
Biodegradability:	Biodegradable
Corrosiveness:	Non-Corrosive

SECTION III: Physical/Chemical Characteristics

Boiling Point	220 F	Specific gravity (H₂O = 1): 1.04
Solubility in Water	Complete	Melting point: Not available
Vapor Pressure (mm Hg)	Not available	Evaporation rate (Butyl Acetate = 1) : <1
Vapor Density (Air = 1)	Not available	Appearance and Odor: Amber, No odor
	pH of 1% solution: 5-7	

SECTION IV: Fire and Explosion Data

Flash Point (Methods Used)	Flammable Limits	LEL	UEL
N/A Aqueous	N/A	N/A	N/A

Special Fire Fighting Procedures

Wear self-contained breathing apparatus and full protective gear when entering confined areas.

Unusual Fire and Explosion Hazards

None

SECTION V: Reactivity Data

<u>Stability</u>	<u>Conditions to avoid</u>
Stable under normal conditions	Excessive heat

Incompatibility (Materials to avoid)

None known

Hazardous Decomposition or By-products

Thermal decomposition may produce carbon monoxide, carbon dioxide, hydrogen sulfide and oxides of sulfur.

<u>Hazardous Polymerization</u>	<u>Conditions to avoid</u>
Will not occur	Excessive heat

SECTION VI: Health Hazard Data

Routes of entry: Inhalation, Skin or Ingestion

Inhalation of mist, skin contact, ingestion

Health Hazards (Acute & Chronic)

Constituent Data

Skin Contact: Mildly irritating
Eyes Contact: Moderately irritating, possible corneal damage
Ingestion: Slightly toxic
Inhalation: Low volatility makes vapor inhalation unlikely
Aerosol may be irritating

Carcinogenicity: No
NTP: No
IARC Monographs: No
OSHA regulated: No

Signs and Symptoms of Exposure

Sweating, burning sensation, vomiting, nausea, shortness of breath

Medical conditions generally aggravated by exposure

Mist may cause eye or respiratory irritation with coughing

Emergency and First Aid Procedures

(A) Eyes

Immediately flush with plenty of water for 30 minutes, occasionally lifting lids. Call a physician.

(B) Skin

Remove contaminated clothing and wash contact area with soap and water for 15 minutes. If irritation persists, seek medical attention. Launder clothes before re-use.

(C) Ingestion

If appreciable quantities are swallowed call a physician or poison control center. Drink one or two glasses of water. Do not induce vomiting or give anything to an unconscious person.

SECTION IX: Control Measures

Respiratory Protection (Specify Type)

Wear a properly fitting NIOSH/MSHA approved respirator

Ventilation

Local exhaust preferred

Protective Gloves

Impervious gloves to avoid contact

Eye Protection

Chemical goggles and/or full face shield as needed

Other Protective Clothing or Equipment

Wear impervious apron when splashing

SECTION XI: Special Precautions and Comments

Avoid skin and eye contact.

Ground containers when transferring from one to another.

Where dusty conditions exist, an explosive atmosphere could develop as with any organic material.

Other Precautions: Not applicable

Registration or Certifications: Not applicable

IMPORTANT NOTICE

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TMT Services Corp, P.O. Box 11398, Torrance, CA 90510-1398

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GREASEMASTER

Manufacturer's Environmental & Technical Specifications

The manufacturing process meets and/or exceeds the following safety and technical specifications:

- 1) Passed the U.S. Environmental Protection Agency's *Method for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms*; EPA/600/4-85/013. The *Ceriodaphnia dubia* test organisms used must not be older than 24 hours (+/- 4 hours) at test initiation. The mortality rate of the test organisms was 0% during the 96 hours test period.
- 2) Approved for discharge into the Ballast Water Treatment Facilities such as operated by the ALYESKA Marine Terminal in Alaska and Port of Portland in Oregon.
- 3) Approved by the United States Department of Agriculture as an A1 cleaner in all meat and poultry processing plants.
- 4) Passed the United States Protection Agency's standards of 8240 and 8270 Volatile & Semi-Volatile Organics Analysis.
- 5) Meets the safety criteria of the U.S. Food and Drug Administration (FDA) as a cleaner for use in all food handling establishments including the cleaning of baby milk bottles under CFR 21/178.1010
- 6) Passed the AQMD, State of California mandated Clean Air Solvent (CAS) Certification under eligibility determination by SCAQMD 313-91.
- 7) Is effective in cleaning applications at a dilution rate up to 3000 parts of water to one part of concentrate.
- 8) Approved by the County Sanitation District of Los Angeles County for discharge of the wastewater into the public sewer system.
- 9) Is certified as having no restrictions in transport or handling under the guidelines as established by organizations such as the UN, IMO, IATA and ICAO.
- 10) Meet the U.S. Navy specs on allowable salt deposits not exceeding three (3) microns per sq. cm prior to coating, after the surface has been cleaned. In accordance with EPA tests 600/R-95/136.
- 11) Acts as a Liquid Fertilizer after use life has expired.

GreaseMaster R-300 Fact Sheet
Mineral, Animal & Vegetable Fats
Oil or Grease (FOG) Removal

Product Description

The GreaseMaster R-300 is a concentrated liquid which is very effective in applications requiring the removal of mineral, animal or vegetable fats, oil or grease (FOG) and is an excellent all purpose cleaner for industrial, commercial or residential applications alike.

Physical Characteristics

The GreaseMaster is an inviscid fluid with a specific gravity and boiling point very close to that of water. Its primary effective ingredients are derived from organic plants, generally regarded as safe or permissible under Federal Regulations CFR 21/178.1010 and 21/182 respectively. The product is stable and non-reactive with other substances; is biodegradable and completely non-corrosive in concentrated form.

Method of Action

When applied to grease or oil contaminated areas, the R-300 binds to these substances drawing them away when the area is rinsed with water. It will effectively and selectively remove all oil or animal fat substances whether they exist as surface deposits or are deeply ensconced in some other material (oil soaked wood or fabric for example). After several hours of stagnation of the runoff mixture, the oil/fat contaminants will naturally achieve a very high degree of physical separation. (After 24 hours of settling, the GreaseMaster used solution has an oil content of 12.4 ppm, or less than 3 ppm when absorbent pads have been placed in the liquid, well below the EPA's requirement of 50 ppm for disposal into waste water treatment facilities). The contaminants can then be easily and economically recovered for subsequent reprocessing or disposal by skimming.

Handling Information

There are no OSHA, DOT or EPA restrictions in the handling, storage or transportation of the GreaseMaster either before or after use, (assuming that the contaminants have been separated).

Special Features

Because of its nature and method of application, the GreaseMaster has several characteristics which distinguish it from any other industrial/commercial cleaners:

- 1) From its manufacture to use or disposal, the GreaseMaster is exceptionally environmentally friendly. The product consists largely of waste from organically grown plants. With its ability to act as a de-emulsifier, the oil based contaminants can be easily recovered. Recovery can be used to recycle the oil-based substances, or, at a minimum, to reduce the amount of waste generated by the cleaning process. The GreaseMaster is benign, has almost a neutral pH and can be disposed of as a normal effluent (e.g. into the municipal sewer system) or can be used as a plant fertilizer.
 - 2) The R-300 can be directly applied to heavily soiled or contaminated areas, which typically require 'pre-cleaning' when other cleaning agents are used. The R-300 can be effectively applied even on long standing grease and oil deposits, which have been infiltrated by other materials (sand, metal fillings, etc) and have congealed. Since pre-cleaning often constitutes a large part of degreasing costs (up to 80% for oil tanker cleaning) and man hours, the GreaseMaster allows the user to realize significant cost savings in many applications.
 - 3) The benign nature and physical characteristics of the GreaseMaster allow a broad range of application methods. Approved by the USDA for use as a cleaner in food processing plants; Accepted as a cleaner that can be discharged at the BWTF (Ballast Water Treatment Facility) at the ALYESKA Marine Terminal; Approved for disposal into the tank farms at the Port of Portland; Suitable as an all purpose cleaner for furniture, bathrooms, kitchens, walls, floors, carpets, cars, upholstery, windows (streak free), concrete structures; highly effective and economical in hot tanks and jet washers as well as fuel tanks cleaning.
 - 4) The GreaseMaster does not affect any other materials such as rubber, fabrics, plastic, painted surfaces or human skin. This allows the R-300 to be used where more caustic or acidic cleaners cannot, due to potential damage to surrounding materials.
 - 5) The GreaseMaster provides a one-step removal process when used with a pressure washer in a direct injection method. The 100:1 pre-diluted solution is fed through the soap intake on the pressure washer and provides an instantaneous cleaning of the surface that can then be directly coated. The production rate in this application method is extremely efficient, much faster than ordinary cleaning.
 - 6) As a specialty cleaner, the GreaseMaster's capabilities range from soft coating removal to 'six-oil' or just 'simply' chewing gum removal from carpets.
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