

MC1210[®] Heavy Grease SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: MC1210[®] Heavy Grease

Recommended use of the chemical and restrictions on use: Lubricant Protectant

Manufacturer: Mil-Comm Products Company, Inc.
2 Carlton Avenue
East Rutherford, NJ 07073
Phone: (201) 935-8561
Fax: (201) 935-6059
E-mail: info@mil-comm.com

Emergency Phone: For Chemical Emergency
Spill, Leak, Fire, or Accident
Call **CHEMTREC** Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)
Use MIL-COMM Customer ID: CCN715902

SDS Date of Preparation: 2016-05-05

2. HAZARDS IDENTIFICATION

GHS Classification: Eye Damage Category 1, Skin Irritant Category 2, Toxic to Reproduction Category 2

Note: This product is a consumer product and is labeled in accordance with the US Consumer Product Safety Commission regulations which take precedence over OSHA Hazard Communication labeling. The actual container label will not include the label elements below. The labeling below applies to industrial/professional products and their shipping containers.

GHS Label Elements: Danger



Statements of Hazard

H315 Causes skin irritation.
H318 Causes serious eye damage.
H361 Suspected of damaging fertility or gestation if swallowed in large amounts.

Precautionary Statements

P264 Wash thoroughly after handling.
P280 Wear protective gloves, clothing and eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor.
P302+P352 IF ON SKIN: Wash with plenty of water.
P332+P313 If skin irritation occurs: Get medical attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P308+P313 IF exposed or concerned: Get medical attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Non-Hazardous Ingredients	Proprietary	Balance
Sodium dioctyl sulfosucciate	577-11-7	10-15%
Annatase (titanium dioxide)*	13463-67-7	1-3%
Phosphoric acid, tris(methylphenyl) esters	1330-78-5	<1%

*The Titanium Dioxide in this product is inextricably bound within the product matrix, and no exposure occurs; hence, the product is not classified as a carcinogen.

The exact concentration is withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Immediately flush eyes with plenty of water for at least 20 minutes while holding the eyelids apart. Get immediate medical attention.

Skin: Remove contaminated clothing. Wash skin with plenty of water. Get medical attention if irritation develops. If spilled on clothing, wash before re-use.

Ingestion: Not an anticipated route of exposure. Do not induce vomiting unless directed by a medical professional. Rinse mouth with water and give one glass of water to drink. Never give anything by mouth to an unconscious or convulsing person. Get medical attention if symptoms develop.

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Most Important Symptoms: May cause serious eye irritation, redness, tearing and eye damage. May cause skin irritation. Swallowing large amounts may cause gastric upset.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for eye contact.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use carbon dioxide, dry chemical, foam or water fog.

Specific Hazards Arising from the Chemical: When heated to decomposition, product may emit oxides of carbon and phosphorus, and hydrogen gas.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Avoid breathing vapors or mists. Prevent contact with eyes. Avoid contact with skin and clothing. Wear appropriate protective clothing. May cause surfaces to be slippery and present a slip hazard.

Methods and Materials for Containment and Cleaning Up: Dike and collect liquid with an inert absorbent and place in labeled containers for disposal. Remove spills promptly. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with eyes. Avoid contact with skin and clothing. Wear appropriate protective clothing and equipment as described in section 8. Avoid breathing vapors or mists. Wash thoroughly with soap and water after handling. Keep containers closed when not in use.

Do not reuse containers. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, dry, well-ventilated area away from heat and incompatible materials. Protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Non-Hazardous Ingredients	None Established
Sodium dioctyl sulfosucciate	None Established
Annatase (titanium dioxide)	10 mg/m ³ TWA ACGIH TLV 15 mg/m ³ TWA (total dust) OSHA PEL
Phosphoric acid, tris(methylphenyl) esters	None Established

Engineering Controls: Use with general or local exhaust ventilation maintain exposure below occupational exposure limits.

Respiratory Protection: In operations where exposure levels are exceeded, an approved respirator with organic vapor cartridges and a particulate pre-filter or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Wear impervious gloves to avoid skin contact.

Eye Protection: Chemical safety goggles are recommended to prevent eye contact.

Other: None required. Follow all facility requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Light green viscous liquid with a detergent odor.

Physical State: Viscous liquid	Odor Threshold: Not determined
Vapor Density: Not determined	Initial Boiling Point/Range: 410 °C (770 °F)
Solubility In Water: Water: <0. 1% (long term)	Vapor Pressure: 0.01 mm Hg @ 68°F (20°C)
Relative Density: 0.93	Evaporation Rate: Not determined (Buac=1)
Melting/Freezing Point: 350 °C (662 °F)	pH: Not determined
VOC Content: Not determined	Octanol/Water Coefficient: Not determined
Solubility: Not determined	Decomposition Temperature: Not determined
Viscosity: Not determined	Flammability (solid, gas): Not applicable
Flashpoint: 260 °C (500 °F)	Auto ignition Temperature: Not determined
Flammable Limits: LEL: Not applicable UEL: Not applicable	

10. STABILITY AND REACTIVITY

Reactivity: Not normally reactive

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: Avoid temperatures over 260 °C (500 °F).

Incompatible Materials: Avoid oxidizing agents, strong acids and strong bases.

Hazardous Decomposition Products: When heated to decomposition, product may emit oxides of carbon and phosphorus, and hydrogen gas.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: May cause serious eye irritation, redness, tearing, and blurred vision. Corneal damage may occur.

Skin: May cause irritation and itching.

Ingestion: Swallowing small amounts are not expected to cause adverse effects. Swallowing large amounts may cause gastric upset with nausea, vomiting and diarrhea.

Inhalation: No adverse effects are expected under normal use conditions. Excessive inhalation of mists may cause slight respiratory tract irritation.

Chronic: None known

Sensitization: This product is not classified as a sensitizer.

Carcinogenicity: Titanium dioxide is listed by IARC as a group 2B carcinogen (Possible carcinogenic to humans). However, in the product matrix titanium dioxide is inextricably bound and no exposure occurs; hence the product is not classified as a carcinogen. None of the other components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH or OSHA.

Germ Cell Mutagenicity: No data available.

Reproductive Toxicity: There is no data to indicate that Phosphoric acid, tris(methylphenyl) esters pose a reproductive hazard to humans. This product contains Phosphoric acid, tris(methylphenyl) esters which is suspected of damaging fertility or gestation if swallowed in large amounts. Oral exposure is very unlikely. Male Long-Evans rats received 0, 100, or 200 mg/kg and females received 0, 200, or 400 mg/gk Phosphoric acid, tris(methylphenyl) esters in corn oil by gavage for 56 days in males and 14 days prior to breeding in females, and were also given doses throughout the 10 day mating period. Sperm concentration, motility, and progressive movement were decreased for 200 mg/kg dose group males. A dose-dependent increase in abnormal sperm morphology was observed for males in both Phosphoric acid, tris(methylphenyl) esters dose groups. The percent of sperm-positive females per group was unchanged, but the number of females delivering live young was severely decreased by Phosphoric acid, tris(methylphenyl) esters exposure. Litter size and pup viability were decreased in the 400 mg/kg dose group. Pup body weight and developmental landmarks were unaffected by Phosphoric acid, tris(methylphenyl) esters exposure. Histopathologic changes were observed in the testes and epididymides of male rats and in the ovaries of female rats exposed to undiluted Phosphoric acid, tris(methylphenyl) esters.

Numerical Measures of Toxicity:

Sodium dioctyl sulfosuccinate: Oral rat LD50 > 2100 mg/kg, dermal rabbit LD50 > 10,000 mg/kg

Annatase (titanium dioxide): Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >6.82 mg/L/4 hr

Phosphoric acid, tris(methylphenyl) esters: Oral rat LD50 > 5000 mg/kg, inhalation rat LC50 > 5.2 mg/L/4 hr, dermal rabbit LD50 > 10000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Sodium dioctyl sulfosuccinate: Danio rerio LC50: 49 mg/L/96 hr

Annatase (titanium dioxide): Pimephales promelas LC50 >1000 mg/L/96 hr, Daphnia magna EC50 >1000 mg/L/48 hr, Pseudokirchneriella subcapitata EC50: 61 mg/L/72 hr

Phosphoric acid, tris(methylphenyl) esters: Pimephales promelas LC50: 0.6 mg/L/96 hr

This product is not expected to cause harm to the environment.

Persistence and Degradability: Sodium dioctyl sulfosuccinate: Readily biodegradable: 91.2% in 28 days.

Phosphoric acid, tris(methylphenyl) esters: Not readily biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

	UN Number	UN Proper Shipping Name	Hazard Class(s)	Packing Group	Environmental Hazards
DOT	None	Not Regulated	None	None	None
ADR/RID	None	Not Regulated	None	None	None
IMDG	None	Not Regulated	None	None	None
IATA/ICAO	None	Not Regulated	None	None	None

Special Precautions for User: Not applicable.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

Hazard Category for Section 311/312: Acute Health, Chronic Health

Section 313 Toxic Chemicals: This product does not contain chemicals subject to SARA Title III Section 313 Reporting requirements.

Section 302 Extremely Hazardous Substances (TPQ): None

California Proposition 65: This product contains chemicals known to the state of California to cause cancer, birth defects, or other reproductive harm.

United States TSCA: All the components are listed.

16. OTHER INFORMATION

NFPA Rating: Health = 3 Flammability = 0 Instability = 0
HMIS Rating: Health = 3* Flammability = 0 Physical Hazard = 0
 *Chronic Health Hazard

Date of current revision: 2016-05-05

Revision History: Updated format and classification.

Date of previous revision: 2016-03-08, 2015-06-04

NOTICE

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. In preparing technical information, MIL-COMM relies on the consensus of opinion and representations made by industry, government agencies and vendor suppliers. It should not therefore be construed as guaranteeing any specific property of the product.