

MATERIAL SAFETY DATA SHEET
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EMERGENCY PHONE NO.: (FOR SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT): 1-800-535-5053

 *******RED GREASE 37020*******

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Red Grease (aerosol)
 PRODUCT DESCRIPTION: A superior, multi-purpose lithium complex grease known for its versatility and high temperature lubrication. Handles heavy loads, resists water wash-out, provides superior rust protection and oxidation resistance. Provides continuous lubrication to 350 degrees F. (176 degrees C.). Recommended for use on a wide variety of transportation, industrial and agricultural construction parts and equipment, especially where exposed to severe operational conditions. ***Spray of this product is highly flammable - do not apply near open flames or other potential ignition sources!***
 RESTRICTIONS: Non-restricted

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
Methylene Chloride	75-09-2	25 ppm	2000 - 4000 mg/kg (Rat)
Lithium Grease	Mixture	N.E.	N.E.
Propane	74-98-6	1000 ppm	N.E.
Isobutane	75-28-5	800 ppm	N.E.

Carcinogenic: **OSHA = No** **NTP = Yes** **IARC = Yes***

*Methylene Chloride has been found to cause cancer in certain laboratory animals and therefore may present a risk to humans; it is classified as a (Group 2B) carcinogen by IARC.

SECTION III - PHYSICAL DATA

APPEARANCE: Red colored, transparent grease
 ODOR: Petroleum / chlorinated solvent odor
 BOILING RANGE: 104 degrees F.(40 degrees C.)
 VAPOR DENSITY (Air = 1): 2.5
 VAPOR PRESSURE: 1300 mmHg
 SOLUBILITY IN WATER: Nil
 SPECIFIC GRAVITY: 1.0
 EVAPORATION RATE: Very slow
 MELTING POINT: Approximately 350 degrees F. (176 degrees C.)

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health - 2, Fire - 3, Reactivity - 0
 FLASH POINT: -134 degrees F. (-91 degrees C.) for lowest flashing formulation component, propellant blend.
 FLAMMABLE LIMITS: LEL: 1.8
 UEL: 9.5
 EXTINGUISHING MEDIA: Dry chemical, foam, CO2.
 UNUSUAL FIRE AND EXPLOSION HAZARDS: Extremely flammable spray. Propellant vapors may travel considerable

distances to ignition sources where they may flash or explode.
 SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed aerosols with water fog.

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:
Eye Contact: Flush eyes with water for at least 15 minutes. Consult a physician. Skin Contact: Wash affected area with soap and water. If irritation develops or persists, consult a physician. Inhalation: Remove victim to fresh air, administer oxygen if necessary. If victim has stopped breathing begin CPR. Get immediate medical attention. Ingestion: If material is swallowed, consult physician immediately. DO NOT induce vomiting unless physician directed. If spontaneous vomiting occurs, keep victim's head below hips to prevent vomitus from entering lungs.
 MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Pre-existing skin conditions, angina or heart disease.
 PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.
 HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE: Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, CNS, unconsciousness. Extreme inhalation overexposures may result in asphyxiation. Long-term chronic overexposures to Methylene Chloride may result in kidney or liver damage.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.
 HAZARDOUS POLYMERIZATION: Will not occur.
 HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Hydrogen chloride, trace amounts of phosgene and chloride, carbon oxides, irritating aldehydes and ketones.
 INCOMPATIBILITY: Avoid strong oxidizing agents, acids, alkalis, powdered Al, Zn, etc.
 CONDITIONS TO AVOID: Avoid heat, flame, all potential ignition sources.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove ignition sources, ventilate area. Take up spill on an inert absorbent material and place into a DOT approved closed-top waste container for disposal. Carefully remove all trace residues to prevent a slipping hazard. Keep spilled material out of sewers or drains.
 WASTE DISPOSAL: Comply with existing Federal, State and Local environmental regulations. Waste or unwanted material may be reclaimed or incinerated by permitted facilities.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is usually adequate. Industrial users must wear NIOSH approved positive pressure, air-supplied respirators if air monitoring determines the established 25 PEL for Methylene Chloride is exceeded.
 PROTECTIVE GLOVES: Polyvinyl Alcohol gloves.
 EYE PROTECTION: Safety glasses, splash goggles, face shield.
 OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact. Avoid excessive inhalation of vapors. Use in a

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well-ventilated environment. Intentional inhalation of contents is harmful and may be fatal.

PRECAUTIONS TO BE TAKEN IN STORING: Store containers below 120°F (48°C), away from heat sources, open flame, out of direct sunlight.

SECTION X – SHIPPING DATA

U.N./N.A. NUMBER: UN1950

DOT/IATA SHIPPING NAME: (DOT): Aerosols, flammable, (each not exceeding 1L capacity); (IATA): Aerosols, flammable, containing substances in Division 6.1, Packing Group III (each not exceeding 1 L capacity).

DOT HAZARD CLASS: (DOT): 2.1; (IATA): 2.1, Sub. 6.1.

DOT REQUIRED SHIPPING LABELS: (DOT, ground mode): 2, Flammable gas; (IATA): 2 Flammable gas, 6 Toxic.

DOT EXCEPTION: See code 49 section 172.101, column (8A). Section 173.306(h) permits "limited quantity" materials (inner packagings which do not exceed 1L capacity / 61 cubic inches and for which internal pressures do not exceed 180 psig at 130 degrees F.) meeting section 171.8 definition of "consumer commodity" to be renamed "Consumer commodity" and reclassified as ORM-D when shipped via ground mode, domestically.

IMDG SHIPPING NAME: Aerosols, non-flammable, (each not exceeding 1L capacity)

FREIGHT CLASS: NMFC 155250

LTL: 65 TL: 35 MW: 30

T.S.C.A. STATUS: All components listed

PREPARED BY: Roger Hanson

DATE PREPARED: 03-21-00 SUPERSEDES: 08-18-99

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N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE