

MATERIAL SAFETY 3M
DATA SHEET 3M Center
St. Paul, Minnesota
55144-1000
1-800-364-3577 or (651) 737-6501 (24 hours)

HEALTH: 2
FLAMMABILITY: 4
REACTIVITY: 0

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DIVISION: AUTOMOTIVE AFTERMARKET

TRADE NAME:

3M brand Lithium Lube / White Grease, P/N 08915, 08875

ID NUMBER/U.P.C.:

60-9800-1904-0 00-51135-08915-6 60-9800-2103-8 00-51135-08875-3

ISSUED: October 17, 2000

SUPERSEDES: September 28, 2000

DOCUMENT: 05-6888-1

1. INGREDIENT C.A.S. NO. PERCENT

HEPTANE..... 142-82-5 30 - 40
ISOBUTANE..... 75-28-5 25 - 35
HYDROTREATED HEAVY NAPHTHENIC PETROLEUM
DISTILLATES..... 64742-52-5 25 - 35
ZINC OXIDE..... 1314-13-2 1 - 5
LITHIUM 12-HYDROXYSTEARATE..... 7620-77-1 1 - 5

This product contains the following toxic chemical or chemicals subject to
the reporting requirements of Section 313 of Title III of the Emergency
Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:
ZINC OXIDE

2. PHYSICAL DATA

BOILING POINT:..... Compressed Gas
VAPOR PRESSURE:..... Compressed Gas
VAPOR DENSITY:..... > 1.00 Air=1
EVAPORATION RATE:..... > 1.00 Ether=1
SOLUBILITY IN WATER:..... Negligible
SPECIFIC GRAVITY:..... 0.709 g/ml
PERCENT VOLATILE:..... 65 %
pH:..... N/D
VISCOSITY:..... N/A
MELTING POINT:..... N/D

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximatel

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2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR:

Liquid in aerosol container, clear, solvent odor

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... -50.00 F
(Propellant)
FLAMMABLE LIMITS - LEL:..... N/D
FLAMMABLE LIMITS - UEL:..... N/D
AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:
Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:
Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Closed containers exposed to heat from fire may build pressure and explode. Vapors may travel long distances along the ground or floor to an ignition source and flash back.

NFPA HAZARD CODES: HEALTH: 2 FIRE: 4 REACTIVITY: 0
UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:
Heat.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:
Carbon Monoxide and Carbon Dioxide.

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5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Ventilate area. Extinguish all ignition sources. Cover with absorbent material. Collect using non-sparking tools. Place in a U.S. DOT-approved container.

RECOMMENDED DISPOSAL:
Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Facility must be capable of handling aerosol cans. Dispose of empty cans in a sanitary landfill. Dispose of waste product in a facility permitted to accept chemical waste.

ENVIRONMENTAL DATA:
Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 461 gms/liter South Coast Air Quality Mgmt
Dist Method Rule 443.1, calculated.
VOC Less H2O & Exempt Solvents: 461 gms/liter South Coast Air Quality Mgmt
Dist Method Rule 443.1, calculated.

Since regulations vary, consult applicable regulations or authorities
before disposal. U.S. EPA Hazardous Waste Number = D001 (Ignitable)

EPCRA HAZARD CLASS:

FIRE HAZARD: Yes PRESSURE: Yes REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water for at least 15
minutes. Get immediate medical attention.

SKIN CONTACT:

Flush skin with large amounts of water. If irritation persists, get
medical attention.

INHALATION:

Remove person to fresh air. If not breathing, give artificial
respiration. If breathing is difficult, get immediate medical
attention.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

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7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles. Wear safety glasses with
side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this
material. nitrile rubber, polyethylene/ethylene vinyl alcohol,
polyvinyl alcohol, polytetrafluoroethylene (Teflon), fluoroelastomer
(Viton).

RECOMMENDED VENTILATION:

Use in a well-ventilated area. Provide sufficient ventilation to
maintain emissions below recommended exposure limits.

RESPIRATORY PROTECTION:

Avoid breathing of vapors, mists or spray.

PREVENTION OF ACCIDENTAL INGESTION:

Do not ingest.

RECOMMENDED STORAGE:

Store at temperatures below 120 degrees F (49 degrees C). Keep out
of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Aerosol container contains flammable gas under pressure. Keep away

from heat, sparks, open flame, and other sources of ignition. Extremely flammable liquid and vapor. Do not pierce or burn container, even after use. Avoid static discharge.

HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 4 REACTIVITY: 0
PERSONAL PROTECTION: B

EXPOSURE LIMITS

INGREDIENT VALUE UNIT TYPE AUTH SKIN

HEPTANE.....	400	PPM	TWA	ACGIH	
HEPTANE.....	500	PPM	STEL	ACGIH	
HEPTANE.....	400	PPM	TWA	OSHA	
OSHA VACATED PEL					
HEPTANE.....	500	PPM	STEL	OSHA	
OSHA VACATED PEL					
HEPTANE.....	500	PPM	TWA	OSHA	
ISOBUTANE.....	NONE	NONE	NONE	NONE	
HYDROTREATED HEAVY NAPHTHENIC					
PETROLEUM DISTILLATES.....	5	MG/M3	TWA	CMRG	
HYDROTREATED HEAVY NAPHTHENIC					
PETROLEUM DISTILLATES.....	10	MG/M3	STEL	CMRG	
ZINC OXIDE.....	10	MG/M3	TWA	ACGIH	

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EXPOSURE LIMITS (continued)

INGREDIENT VALUE UNIT TYPE AUTH SKIN

AS DUST					
ZINC OXIDE.....	10	MG/M3	TWA	OSHA	
AS DUST					
OSHA VACATED PEL: TOTAL DUST					
ZINC OXIDE.....	5	MG/M3	TWA	ACGIH	
as fume					
ZINC OXIDE.....	10	MG/M3	STEL	ACGIH	
as fume					
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
as fume					
ZINC OXIDE.....	10	MG/M3	STEL	OSHA	
as fume					
OSHA VACATED PEL					
ZINC OXIDE.....	15	MG/M3	TWA	OSHA	
AS DUST					
TOTAL DUST					
ZINC OXIDE.....	5	MG/M3	TWA	OSHA	
AS DUST					
RESPIRABLE FRACTION					
LITHIUM 12-HYDROXYSTEARATE.....	10	MG/M3	TWA	ACGIH	
as total dust					

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- ACGIH: American Conference of Governmental Industrial Hygienists
- CMRG: Chemical Manufacturer Recommended Exposure Guidelines
- OSHA: Occupational Safety and Health Administration
- OSHA: Occupational Safety and Health Administration Vacated PEL. Vacated Permissible Exposure Limits (PEL) are enforced as the OSHA PEL in some states. Check with your local regulatory authority.

- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Mild Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, and itching.

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8. HEALTH HAZARD DATA (continued)

INHALATION:

Intentional concentration and inhalation may be harmful or fatal.

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

WHILE THE FOLLOWING EFFECTS ARE ASSOCIATED WITH ONE OR MORE OF THE INDIVIDUAL INGREDIENTS IN THIS PRODUCT AND ARE REQUIRED TO BE INCLUDED ON THE MSDS BY THE U.S. OSHA HAZARD COMMUNICATION STANDARD, THEY ARE NOT EXPECTED EFFECTS DURING FORESEEABLE USE OF THIS PRODUCT.

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

SECTION CHANGE DATES

PRECAUTIONARY INFO. SECTION CHANGED SINCE September 28, 2000 ISSUE