



MATERIAL SAFETY DATA SHEET

IDENTITY: MT-3 GREASE

SECTION I: MANUFACTURER

HALOCARBON PRODUCTS CORPORATION Emergency Number: (803) 278-3504
P.O. Box 661 Customer Service & Sales: (201) 262-8899
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SECTION II: HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	OSHA PEL	ACGIH TLV	Other Limits
Polychlorotrifluoroethylene	9002-83-9	None	None	None
Polytetrafluoroethylene	9002-84-0	15mg/m3*	10mg/m3*	None
Molybdenum Disulfide	1317-33-5	10mg/m3*	10mg/m3*	None

* Applies to these materials in dust form. As supplied, the grease is a thick paste incorporating these materials and they will not be in dust form.

I Greases contain a proprietary rust inhibitor.

OSHA HAZARD RATING:

This product contains the following toxic chemical(s) subject to Section 313 Title III reporting requirements (40 CFR Part 372).

None

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point : Decomposes>250C Vapor Pressure: Less than 0.1mm Hg
Melting Point : N/A Vapor Density(Air=1): N/A
Specific Gravity(H2O=1): ca 2 Solubility in Water : Insoluble

Appearance and Odor: Dark grey paste.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point/Method: N/A Autoignition Temp: Not determined
Flammability Limits in Air - LEL: N/A UEL: N/A

Extinguishing Media: Carbon dioxide, regular dry chemical. Use methods appropriate for surroundings.

Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.

Unusual Fire and Explosion Hazards: Thermal decomposition products are corrosive and toxic.



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SECTION V - REACTIVITY DATA

Unstable Conditions to Avoid:
Stable

Incompatibility (Materials to Avoid): Aluminum threaded connections where galling and seizure may initiate reaction. Reacts with active metals like sodium and potassium, amines, liquid fluorine and liquid chlorine trifluoride. Avoid elevated temperatures, hydrogen peroxide and oxidizers. Molybdenum disulfide has been known to form explosive mixtures with potassium nitrate.

Hazardous Decomposition or By-products: Toxic fumes of carbon dioxide, carbon monoxide, hydrogen fluoride and hydrogen chloride are formed. The decomposition to toxic, non-sludge forming volatiles occurs rapidly at 325C, noticeably at 300C and in lesser amounts at lower temperatures. Therefore, the maximum safe operating temperature recommended is 200C.

Hazardous Polymerization May Occur Will Not Occur
Conditions To Avoid: N/A



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SECTION VI - HEALTH HAZARD DATA

Ingestion: A related oil (Halocarbon 27) caused no deaths in rats dosed daily for 21 days with 2.5g/kg orally. Symptoms attributed to fluoride poisoning by metabolism in the liver were noted. Enlargement of the livers and kidneys in treated animals support this conclusion.

Rats that were fed up to 500 mg daily of molybdenum disulfide for 44 days showed no toxic signs.

Inhalation: May irritate the nose, throat and respiratory tract. Twenty-five one-hour exposures to 490mg/m³ of molybdenum disulfide dust caused no effects in all the animals tested except one which died after the third exposure.

Skin Contact: Halocarbon oil is not irritating to skin but simple skin protection must be used to prevent repeated exposure and possibility of sensitization.

Repeated or prolonged exposure to polytetrafluoroethylene may cause skin irritation. Since the potential of human toxicity cannot be ruled out, proper ventilation and work practices should be employed.

Primary routes of entry: [] Inhalation [X] Skin [] Eyes [] Oral

Acute Effects of Overexposure: From the animal studies, signs of fluoride poisoning may be expected. These include nausea, shortness of breath and loss of appetite.

Chronic Effects of Overexposure: Unknown

Carcinogenicity listing: [NO] NTP [NO] IARC [NO] OSHA
[NO] Other:

First Aid

Inhalation: Remove to fresh air and give artificial respiration if necessary. Seek medical help.

Skin: Wash affected area immediately for 15 minutes. Remove contaminated clothing and shoes. Seek medical help if needed.

Eye: Flush eyes with plenty of water for at least 15 minutes. Get immediate medical help.

Oral: If swallowed get medical attention.

Medical Conditions Generally Aggravated by Exposure: No information available.

Other Health Hazards: No information available.



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SECTION VII - PROTECTION INFORMATION

Respiratory: Self-contained breathing apparatus for emergency use.
Ventilation: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.
Eye and Face: Safety glasses or goggles.
Gloves: Wear appropriate chemical resistant gloves.
Other equipment: None normally required.

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SECTION VIII - SPILL, LEAK AND DISPOSAL PROCEDURES

Spill, Leak, or Release: Pick up material and hold in covered container for disposal. For large spills, wear self-contained breathing apparatus.
Waste Disposal: Dispose in accordance with all federal, state and local regulations.

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SECTION IX - OTHER INFORMATION

1. Hazardous Materials/Dangerous Goods Shipping Regulations
U.S. (49 CFR): Proper Shipping Name: Non-Hazardous Material
IATA: Proper Shipping Name: Non-Dangerous Goods
IMDG: Proper Shipping Name: Non-Dangerous Goods
2. Other Information: HMIS Labeling: H1, F0, R0, PB

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