

MSDS - Material Safety Data Sheet

Product Name: ZMAX MICRO-LUBRICANT HEAVY DUTY WHITE LITHIUM GREASE

MSDS No.: 80491

I. Basic Information:

Manufacturer: OIL-CHEM RESEARCH CORPORATION
Address: 6407 IDLEWILD ROAD, SUITE 100
City, ST Zip: CHARLOTTE, NC 28218
Emergency Contact: Gina Falish
Emergency Telephone Number: 704--94-3-22 63
Contact:
Information Telephone Number: 704-943-2260



1	Health
3	Flammability
0	Reactivity
C	Pers. Protection

Last Update: 03/22/2006

Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

II. Ingredients:

Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
124389	Carbon dioxide	1.0 - 5.0							N/AV	5000 ppm	
Proprietary	Lithium Grease	10.0 - 30.0									
127184	Tetrachloroethylene	60.0 -100.0	X	X			X		25 ppm	25 ppm	

III. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Danger: Harmful or fatal if swallowed. Eye and skin irritant. Contents under pressure.

Level 1 Aerosol

IV. First Aid Measures:

Route(s) of Entry:

Absorption, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

Excessive ingestion may cause stomach irritation, nausea, vomiting. Can cause liver damage and affect the kidneys adversely.

Signs and Symptoms:

Eye Contact: Irritant. Prolonged contact may cause conjunctivitis.
 Skin Contact: Irritant. Defatting of tissue, dermatitis may occur.
 Inhalation: Irritant to mucous membranes. Repeated exposure may cause narcosis..
 Ingestion: HARMFUL OR FATAL IF SWALLOWED. May cause burns to mouth, throat & stomach.

Medical Conditions Generally Aggravated by Exposure:

Prolonged exposure above the OSHA permissible exposure limit may complicate existing liver and kidney diseases.

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Emergency and First Aid Procedures:

Eye Contact: Flush eyes with clean water for 15 minutes while lifting eyelids. Get prompt medical attention.
Skin Contact: Wash with soap and water thoroughly. If adverse effects persist, get prompt medical attention. Launder contaminated clothing before reuse.
Inhalation: Remove to fresh air. If breathing becomes difficult get prompt medical attention.
Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.

Other Health Warnings:

Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal. Do not administer adrenaline or other sympathomimetic drugs to persons overexposed to Perchloroethylene.

V. Fire Fighting Measures:

Flash Point: N/A

Lower Explosive Limit: 1.8%

Upper Explosive Limit: 9.5%

F.P. Method: N/A

Fire Extinguishing Media: Water Fog, Foam, Carbon Dioxide, Dry Chemical

Special Fire Fighting Procedures:

Wear self-contained positive pressure breathing apparatus and protective clothes. Cool containers with a water fog. Do not use forced water stream as this could cause the fire to spread. Use shield to protect from rupturing and venting containers.

Unusual Fire and Explosion:

Contents under pressure. At elevated temperatures, container may vent, rupture, or burst violently. Vapors of this product may present a future health hazard in poorly ventilated areas. May liberate corrosive hydrochloric acid or toxic phosgene fumes.

VI. Accidental Release Measures:

Steps to be Taken in Case Material is Released or Spilled:

Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Dike or contain spill and absorb with inert materials (sand, sawdust, absorbent sweeping compounds, rags, etc). Shovel up and place contaminated material into an approved chemical waste container. Where possible, vacuum spilled liquid using an explosion proof vacuum to recover material. Prevent run-off to sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities as required that a spill has occurred.

VII. Handling and Storage:

Precautions to be Taken:

Use with adequate ventilation and proper protective equipment.
Do not use or store near fire, sparks, or open flame. Do not puncture or incinerate container. Exposure to temperatures above 120° may cause container to vent, rupture, or burst.

Other Precautions:

Vapors are heavier than air and will collect in low areas. This material or its vapors when in contact with flames, hot glowing surfaces or electric arcs can decompose to form hydrogen chloride gas and possible traces of phosgene. Avoid contamination with water supplies.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

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See Section 2 for applicable exposure limits. Maintain adequate ventilation. Avoid breathing vapors. In restricted areas, use approved chemical filters designed to remove vapor. In confined areas, use approved air line type respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above TLV limits.

Personal Protective Equipment:

See Section 2 for applicable exposure limits. For prolonged exposure wear protective safety glasses, gloves, and apron.

IX. Physical and Chemical Properties:**Boiling Point:** >100°F**Melting Point:** N/A**Evaporation Rate (Butyl Acetate = 1):** >1.0**Vapor Pressure (mm Hg.):** Not Det.**Specific Gravity (H2O = 1):** 1.60000**Vapor Density (AIR = 1):** 5.83**Solubility In Water:** Insoluble**Appearance and Odor:** Opaque dense yellow suspension with sweet odor**Other Information:** VOC Content: 25%**X. Stability and Reactivity:****Stability:**

Stable

Incompatibility (Materials to Avoid):

Avoid contact with metals such as aluminum powders, magnesium powders, potassium, sodium, and zinc powder. Avoid contact with amines, strong bases, and oxidizers.

Decomposition/By Products:

Under fire conditions may include carbon dioxide, carbon monoxide, phosgene and chlorine. Flames, welding, and high temperatures induce decomposition. In the presence of water: hydrochloric acid.

Hazardous Polymerization:

Will not occur

XI. Toxicological Information:

N/D

XII. Ecological Information:

N/D

XIII. Disposal Considerations:

DISPOSAL: This container may be recycled in aerosol recycling centers when empty. Before offering for recycling, empty the can by using the product according to the label. DO NOT PUNCTURE! If recycling is not available, wrap the container and discard in the trash. Dispose of unused product in accordance with all local, state government and federal laws and regulations.

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XIV. Transport Information:

DOT Hazard Class: ORM-D
Shipping Name: Consumer Commodity

XV. Regulatory Information:

USA TSCA: All chemicals used are listed on the TSCA Inventory.
CERCLA RQ: 1000 lbs
SARA 302: Not listed as a Extremely Hazardous Substance
SARA 311/312 HAZARD CLASS: Acute, Chronic
SARA 313 REPORTABLE: See Section 2 for SARA Reportable Chemicals.
PROPOSITION 65 WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects and other reproductive harm.
NEW JERSEY RIGHT-TO-KNOW: Tetrachloroethylene

XVI. Other Information:

Do not used in confined area without proper ventilation. Contact lenses may cause further damage in case of splash into eye.
KEEP AWAY FROM CHILDREN AND ANIMALS!

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