

MSDS - Material Safety Data Sheet**Product Name: ZMAX MICRO-LUBRICANT GLASS CLEANER (NO AMMONIA)**

MSDS No.: 81007

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

Last Update: 03/23/2006

Chemical State: Liquid Gas SolidChemical Type: Pure Mixture

1	Health
2	Flammability
0	Reactivity
A	Pers. Protection

II. Ingredients: Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
111762	2-Butoxyethanol						X	25 ppm	25 ppm		
106978	Butane							N/E	800 ppm		
67630	Isopropyl alcohol						X	400 ppm	400 ppm		
74986	Propane							N/E	1000 ppm		

III. Hazardous Identification:

Hazard Category:

 Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

CAUTION: Eye Irritant, Contents Under Pressure.

N.F.P.A. Level 1 Aerosol

IV. First Aid Measures:

Route(s) of Entry:

Absorption, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

See signs and symptoms below.

Signs and Symptoms:

Eye Contact: Direct spray of vapors may be irritating or harmful to eyes.

Skin Contact: Prolonged contact may cause irritation due to defatting of skin.

Inhalation: High concentration of vapors may irritate nose and throat and cause headaches and nausea.

Ingestion: Can cause irritation, gastric disturbances, and nausea..

Medical Conditions Generally Aggravated by Exposure:

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None known

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with water for 15 minutes while lifting upper and lower eyelid. Get prompt medical attention.

Skin Contact: Wash with soap and water. If irritation persists, get prompt medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult get prompt medical attention.

Ingestion: Drink water or milk. Call Poison Control Center, physician, or hospital emergency room immediately.

Other Health Warnings:

None Known

V. Fire Fighting Measures:

Flash Point: None

Lower Explosive Limit: N/D

Upper Explosive Limit: N/D

F.P. Method: TCC

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 exposed to heat with water fog.

Unusual Fire and Explosion:

Use shield to protect from venting, rupturing, or bursting cans.

VI. Accidental Release Measures:

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

Use appropriate protective equipment. Contain spill and then absorb spill with inert material or rags and scoop into a chemical waste container. Neutralize remaining traces of material and flush with water followed by liberal covering with sodium bicarbonate. All clean-up material should be removed and placed in approved containers for disposal. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.

VII. Handling and Storage:

Precautions to be Taken:

Use with adequate ventilation. Do not take internally. Do not expose to heat or store at temperatures above 120 F. Do not puncture or incinerate container.

Other Precautions:

Avoid contact with strong oxidizing agents.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

See Section 2 for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

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

IX. Physical and Chemical Properties:

Boiling Point: 212 F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): < 1

Vapor Pressure (mm Hg.): N/D

Specific Gravity (H2O = 1): 0.97500

Vapor Density (AIR = 1): N/D

Solubility In Water: Soluble

Appearance and Odor: Clear liquid with alcohol odor.

Other Information: pH: 11-12

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Avoid contact with strong oxidizing agents

Decomposition/By Products:

Carbon Monoxide, Carbon Dioxide

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.

XIV. Transport Information:

DOT Hazard Class: ORM-D

Shipping Name: Consumer Commodity

XV. Regulatory Information:

See Section 2 for SARA Reportable Chemicals.

USA TSCA: All components of this material are listed on the US TSCA Inventory.

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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!

N/E: Not Established
N/D: Not Determined
N/A: Not Applicable
N/AV: Not Available

While Oil-Chem Research Corporation believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.

MSDS - Material Safety Data Sheet

Product Name: ZMAX MICRO-LUBRICANT CARPET & FABRIC CLEANER

MSDS No.: 80290

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

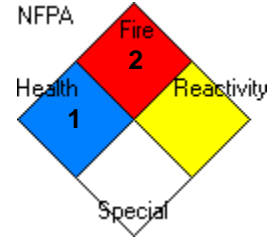
Contact:

Information Telephone Number: 704-943-2260

Last Update: 03/23/2006

Chemical State: Liquid Gas Solid

Chemical Type: Pure Mixture



1	Health
2	Flammability
0	Reactivity
B	Pers. Protection

II. Ingredients:

Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB Z	313					
111762	2-Butoxyethanol	1-5					X		25 ppm	25 ppm	
106978	Butane	1-4							N/E	800 ppm	
74986	Propane	1-4							N/E	1000 ppm	
1310732	Sodium hydroxide	0-3							2 mg/m3	2 mg/m3	

III. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

CAUTION: Eye Irritant, Contents Under Pressure.

Level 1 Aerosol

IV. First Aid Measures:

Route(s) of Entry:

Absorption, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

See signs and symptoms below.

Signs and Symptoms:

- Eye Contact: Direct spray of vapors may be irritating or harmful to eyes.
- Skin Contact: Prolonged contact may cause irritation due to defatting of skin.
- Inhalation: High concentration of vapors may irritate nose and throat and cause headaches and nausea.
- Ingestion: Can cause irritation, gastric disturbances, and nausea..

Medical Conditions Generally Aggravated by Exposure:

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Product Name: ZMAX MICRO-LUBRICANT CARPET & FABRIC CLEANER

MSDS No.: 80290

None known

Emergency and First Aid Procedures:

Eye Contact: Flush eyes with water for 15 minutes while lifting upper and lower eyelid. Get prompt medical attention.

Skin Contact: Wash with soap and water. If irritation persists, get prompt medical attention.

Inhalation: Move to fresh air. If breathing becomes difficult get prompt medical attention.

Ingestion: Drink water or milk. Call Poison Control Center, physician, or hospital emergency room immediately.

Other Health Warnings:

None known

V. Fire Fighting Measures:**Flash Point:** None**Lower Explosive Limit:** N/D**Upper Explosive Limit:** N/D**F.P. Method:** TCC**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 exposed to heat with water fog.

Unusual Fire and Explosion:

Use shield to protect from venting, rupturing, or bursting cans.

VI. Accidental Release Measures:**Steps to be Taken in Case Material is Released or Spilled:**

Use appropriate protective equipment. Contain spill and then absorb spill with inert material or rags and scoop into a chemical waste container. Neutralize remaining traces of material and flush with water followed by liberal covering with sodium bicarbonate. All clean-up material should be removed and placed in approved containers for disposal. Rinse water may be disposed of down a sanitary sewer system if authorized by the local municipality.

VII. Handling and Storage:**Precautions to be Taken:**

Use with adequate ventilation. Do not take internally. Do not expose to heat or store at temperatures above 120 F. Do not puncture or incinerate container.

Other Precautions:

Avoid contact with strong oxidizing agents.

VIII. Exposure Controls/Personal Protection:**Ventilation Requirements:**

See Section 2 for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

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

IX. Physical and Chemical Properties:

Boiling Point: 212 F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): < 1

Vapor Pressure (mm Hg.): N/D

Specific Gravity (H2O = 1): 1.00000

Vapor Density (AIR = 1): N/D

Solubility In Water: Soluble

Appearance and Odor: White foam spray, light citrus floral scent

Other Information: pH: 11.5 - 12.5

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Avoid contact with strong oxidizing agents

Decomposition/By Products:

Carbon Monoxide, Carbon Dioxide

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.

XIV. Transport Information:

DOT Hazard Class: ORM-D

Shipping Name: Consumer Commodity

XV. Regulatory Information:

See Section 2 for SARA Reportable Chemicals.

USA TSCA: All components of this material are listed on the US TSCA Inventory.

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Product Name: ZMAX MICRO-LUBRICANT CARPET & FABRIC CLEANER

MSDS No.: 80290

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!

N/E: Not Established
N/D: Not Determined
N/A: Not Applicable
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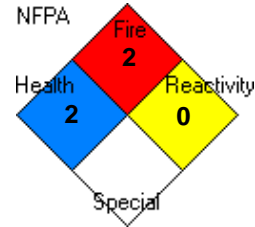
MSDS - Material Safety Data Sheet

Product Name: ZMAX MICRO-LUBRICANT HEAVY DUTY GEL ENGINE DEGREASER

MSDS No.: 71400

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



2	Health
2	Flammability
0	Reactivity
B	Pers. Protection

Last Update: 03/21/2006

Chemical State: Liquid Gas Solid
Chemical Type: Pure Mixture

II. Ingredients:

Trade Secret

CAS No.	Chemical Name	% Range	EHS		IARC		SARA 313		OSHA PEL	ACGIH TLV	Other Limits
			NTP		SUB	Z					
111762	2-Butoxyethanol	1.0 - 5.0					X		25 ppm	25 ppm	
78330128	Alkyl Aryl Sulfonate	1.0 - 5.0							N/E	N/E	5 mg/m
5989275	De Limonene	1.0 - 5.0							N/E	N/E	
9016459	Ethoxylated Nonyl Phenol	3.0 - 7.0							N/D	N/D	
64742478	Hydrocarbon Fluid	30.0 - 60.0							5 mg/m3	5 mg/m3	
8008206	Petroleum Base Oil	30.0 - 60.0							100 ppm	100 ppm	
64742945	Petroleum naphtha	1.0 - 5.0					X		N/E	N/E	100 pp

III. Hazardous Identification:

Hazard Category:

Acute Chronic Fire Pressure Reactive

Hazardous Identification Information:

Harmful or Fatal if Swallowed. Eye and Skin Irritant. Contents Under Pressure.

Level 3 Aerosol

IV. First Aid Measures:

Route(s) of Entry:

Absorption, Eye, Inhalation, and Ingestion.

Health Hazards (Acute and Chronic):

See signs and symptoms below

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.

MSDS - Material Safety Data Sheet

Product Name: ZMAX MICRO-LUBRICANT HEAVY DUTY GEL ENGINE DEGREASER

MSDS No.: 71400

Medical Conditions Generally Aggravated by Exposure:

None Known

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 give oxygen and get prompt medical attention. If breathing stops, give artificial respiration and get prompt medical attention.

Ingestion: DO NOT INDUCE VOMITING! Call Poison Control Center, physician, or hospital emergency room immediately.

Aspiration of vomitus into the lungs can cause pneumonitis, which can be fatal.

Other Health Warnings:

Vomiting and subsequent aspiration into the lungs may lead to chemical pneumonia and pulmonary edema which is a potentially fatal condition.

V. Fire Fighting Measures:

Flash Point: 132°F

Lower Explosive Limit: N/E

Upper Explosive Limit: N/E

F.P. Method: TCC

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:

At elevated temperatures containers may vent, rupture or burst, even violently

VI. Accidental Release Measures:

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

Eliminate all ignition sources. 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). Using a non-metallic scoop, 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:

Handling: Use with adequate ventilation and proper protective equipment.

Do not use near fire, sparks, or flame. Do not puncture or incinerate container.

Store in cool, well ventilated area below 120°F away from heat sources.

Other Precautions:

Avoid contact with eyes. Avoid prolonged or repeated breathing of vapors. If exposure may or does exceed occupational exposure limits, use a NIOSH approved respirator to prevent over-exposure.

VIII. Exposure Controls/Personal Protection:

Ventilation Requirements:

See Section 2 for applicable exposure limits. Use with adequate ventilation. If TLV is exceeded, wear NIOSH approved respirator.

Personal Protective Equipment:

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Product Name: ZMAX MICRO-LUBRICANT HEAVY DUTY GEL ENGINE DEGREASER

MSDS No.: 71400

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

IX. Physical and Chemical Properties:

Boiling Point: 318°F

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): N/D

Vapor Pressure (mm Hg.): N/D

Specific Gravity (H2O = 1): 0.85500

Vapor Density (AIR = 1): N/D

Solubility In Water: Emulifies

Appearance and Odor: Oliver color opaque liquid with petroleum odor

Other Information: VOC Content: < 35% (CARB Compliant)

X. Stability and Reactivity:

Stability:

Stable

Incompatibility (Materials to Avoid):

Strong oxidizing agents.

Decomposition/By Products:

High temperatures and ignition sources produce products of combustion: carbon monoxide, sulfur-like smoke.

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.

XIV. Transport Information:

DOT Hazard Class: ORM-D

Shipping Name: Consumer Commodity

XV. Regulatory Information:

See Section 2 for SARA Reportable Chemicals.

USA TSCA: All components of this material are listed on the US TSCA Inventory.

Warning: This product contains a chemical(s) known to the State of California to cause cancer or birth defects or other reproductive harm.

MSDS - Material Safety Data Sheet

***Product Name: ZMAX MICRO-LUBRICANT HEAVY DUTY GEL ENGINE
DEGREASER***

MSDS No.: 71400

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!

N/E: Not Established

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