

MSDS Code: 101

Product: zMAX Fuel Formula

Material Safety Data Sheet

IDENTIFICATION

Language: English

Product Name(s): zMAX Fuel Formula (Clear)

Date of MSDS: June 5, 2009

SUPPLIER INFORMATION

Manufacturer/Distributor: Oil-Chem Research Corp.

Address: 6800 W. 73rd Street
Bedford Park, IL 60638-6024

EMERGENCY ASSISTANCE

FOR EMERGENCY ASSISTANCE INVOLVING CHEMICALS CALL
CHEMTREC (800) 424-9300: CHEMTREC ASSISTANCE (U.S. & Canada)

For additional information please contact Mr. Edward Rachanski Jr. Technical
Director at telephone: (708) 728-0028; Fax (708) 728-9308; 9:00 am - 5 pm. CST

PRODUCT IDENTIFICATION

Product Name: zMAX Fuel Formula (Clear)

Formula: Undefined

Date Issued: June 5, 2009

*™ of Oil-Chem Research Corp.

HAZZARD RATING (MFR): 0-HEALTH 1-FIRE 0-REACTIVITY SPECIAL-NONE

Hazard Rating Scale- 0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

HAZARDOUS INGREDIENTS

EXPOSURE LIMITS, PPM

OSHA ACGIH OTHER

COMPONENT	CAS NO.	%	PEL (Oil Mist)	TLV (Oil Mist)	HAZARD
MINERAL OIL	8042-47-5	> 99 %	5 mg/kg	10 mg/kg	

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PHYSICAL PROPERTIES

Boiling Point- 540-610 F Vapor Pressure- mm Hg/20 C: <1 Melting Point- F: ND
Flash Point- 270 F/132 C: Specific Gravity (water=1): 0.82-0.88: Water Solubility-
% Insoluble: Appearance- Clear Liquid: Evaporation Rate- 9 Ethyl Ether=1: <1:
Odor- Odorless

FIRST AID MEASURES

Eye Contact- Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact- Wash with soap and water. Get medical attention if irritation develops. Serious Skin Contact- Not Available.

Inhalation- If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Serious Inhalation- Not Available.

Ingestion- DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waste band. Serious Ingestion- Not Available.

TOXICITY DATA

Potential Chronic Health Effects-

CARCINOGENIC EFFECTS- 3 (not classifiable for human) by IARC.

Mutagenic Effects- Not Available

TERATOGENIC EFFECTS- Not Available.

DEVELOPMENTAL TOXICITY- Not Available.

Repeated or prolonged exposure is not known to aggravate medical condition.

Oral: Mouse LD₅₀ - 22g/kg Dermal: Rabbit- 100mg/24 hours mild irritation effect

Inhalation: Man TCL₀- 5mg/m³

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PERSONAL PROTECTION

Engineering Controls- Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work location.

Personal Protection- Safety glasses and lab coat

Personal Protection in Case of Large Spill- Splash goggles, full suit, boots and gloves. Protective clothing might not be sufficient; consult a specialist before handling this product.

Exposure Limits- TWA: 5 STEL: 10 (mgm³) as oil mist. Consult local authorities for acceptable exposure limits.

FIRE AND EXPLOSION INFORMATION

Flammability of the Product- May be combustible at high temperature. Auto Ignition Temperature- Not Available

Flash Point- Closed Cup: 168°C (335°F)

Flammable Limits- Not Available

Products of Combustion- Not Available

Fire Hazards in Presence of Various Substances- Slightly flammable to flammable in presence of open flames and sparks of heat. Non flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances- Risks of explosion of the product in presence of mechanical impact- Not Available. Risks of explosion of product in presence of static discharge- Not Available.

Fire Fighting Media and Instructions-

Small Fire- Use Dry chemical powder

Large Fire- Use water spray fog or foam. DO NOT use water jet.

Special Remarks on Fire Hazards- Not Available

Special Remarks on Explosion Hazard- Not Available.

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HAZARDOUS REACTIVITY

STABILITY- The Product is stable.

Instability Temperature- Not Available.

Conditions of Instability- Excess heat, incompatibles.

Incompatibility with Various Substances- Reactive with oxidizing agents.

Corrosivity- Non-corrosive in presence of glass.

Special Remarks on Reactivity- May react with strong oxidizing agents.

Special Remarks on Corrosivity- Not Available.

Polymerization- Will not occur.

SPILL, LEAK AND DISPOSAL PROCEDURES

Small Spill- Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill- Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on MSDS and with local authorities.

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe gas, fumes, vapors or spray. Keep away from incompatibles such as oxidizing agents.

Storage- Keep container tightly closed. Keep container in a cool, well ventilated area. Do not store above 24°C (75.2°F). Do not use pressure to empty container.

*Prepared by- Dr. Arnel Potter PhD. Phone- (847) 234-1282.
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