

U.S. Oil Co., Inc.**Lubricants Division**

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PRODUCT NO.: 200

MATERIAL SAFETY DATA SHEET

PRODUCT TRADE NAME:

Zinc Free Multivis #15 HVI-FM

REVISION NUMBER: 1272
PREPARATION/REVISION DATE: 2/23/05
REVISED FROM (DATE): 08/29/02

EMERGENCY PHONE #: (920)-735-8298
NFPA CODE: Health: 2 Fire: 1 Reactivity: 1
HMIS CODE: Health: 1 Fire: 1 Reactivity: 1

SECTION 1 - COMPOSITION

This material is not known to contain greater than 0.1% of any carcinogen required to be listed under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

<u>Component</u>	<u>Cas #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Hydrotreated lube oil	64742-53-6	5mg/m ³	5 mg/m ³
Hydrotreated lube oil	64742-52-5	5mg/m ³	5 mg/m ³
Hydrotreated heavy paraffinic distillate	64742-54-7	5 mg/m ³	5 mg/m ³
Distillate solvent dewaxed oils	64742-55-8	5 mg/m ³	5 mg/m ³
Neutral Oils	64741-89-5	5 mg/m ³	5 mg/m ³

SECTION 2 - FIRE AND EXPLOSION HAZARDS

FLASH POINT: 270°F
FLAMMABLE LIMIT: 10% (Estimated value)
LOWER FLAMMABLE LIMIT: 1% (Estimated value)

EXTINGUISHING MEDIA:

CO₂, dry chemical, foam, water spray, water fog

SPECIAL FIRE FIGHTING PROCEDURES:

Wear self contained breathing apparatus with full face piece. Cool exposed containers with water spray. Avoid breathing fumes.

UNUSUAL FIRE & EXPLOSION HAZARDS:

Toxic fumes may be evolved on burning or exposure to heat. Pressure may increase in overheated closed containers. Store below 120°F.

SECTION 3 - HEALTH HAZARD DATA

« ACUTE EXPOSURE »

- ORAL TOXICITY:** The LD50 in rats is > 5000 mg/kg. Based on data from components or similar materials.
- EYE IRRITATION:** Eye irritant. Based on data from components or similar material.
- SKIN IRRITATION:** Skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
- DERMAL TOXICITY:** The LD50 in rabbits is > 5000 mg/kg. Based on data from components or similar materials.
- INHALATION TOXICITY:** High concentrations may cause headaches, dizziness, concentrations may cause narcosis (sleepiness, drowsiness).
- RESPIRATORY IRRITATION:** If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract similar to that observed with mineral oil. Based on data from components or similar materials. Under good industrial hygiene practices where all exposure limits are observed respiratory irritation should not be a problem.
- DERMAL SENSITIZATION:** No data available to indicate product or components may be a skin sensitizer.
- INHALATION SENSITIZATION:** No data available to indicate product or components may be a respiratory sensitizer.

« CHRONIC EXPOSURE »

- CHRONIC TOXICITY:** No data available to indicate product or components present at greater than 1% are chronic health hazards.
- CARCINOGENICITY:** No data available to indicate any components present at greater than 0.1% may present a carcinogenic hazard.
- MUTAGENICITY:** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
- REPRODUCTIVE TOXICITY:** No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
- TERATOGENICITY:** No data available to indicate either product or components contained at greater than 0.1% may cause birth defects.

« ADDITIONAL INFORMATION »

OTHER: No other health hazards known.

EXPOSURE LIMITS: See Hazardous Ingredients Section for any applicable exposure limits for components.

SECTION 3A - EMERGENCY FIRST AID PROCEDURES

SKIN: Wash with soap and water. Get medical attention if irritation develops. Launder contaminated clothing before reuse.

EYE: Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.

INHALATION: Remove exposed person to fresh air if adverse effects are observed.

ORAL: DO NOT INDUCE VOMITING! If conscious, give 2 glasses of water. Get immediate medical attention.

ADDITIONAL: Note to physician: treat symptomatically.

SECTION 4 - SPECIAL PROTECTION INFORMATION

VENTILATION PROCEDURE: Use local exhaust ventilation to control dust.

GLOVE PROTECTION: Neoprene or Nitrile Gloves Recommended.

EYE PROTECTION: Safety glasses recommended.

RESPIRATORY PROTECTION: Normally not required, mask or respirator for mists.

CLOTHING RECOMMENDATION: Launderers needed to prevent repeated or prolonged contact.

SECTION 5 - PHYSICAL DATA

VAPOR PRESSURE: Less than 0.01 mm Hg @ 20 C

PH: Essentially Neutral

SPECIFIC GRAVITY: 0.885

LB/GAL: 7.37

WATER SOLUBILITY: Insoluble

PERCENT VOLATILE: Negligible from open container in 4 hours @ 38°C (100°F)

VAPOR DENSITY: Greater than 1 (Air = 1)

EVAPORATION RATE: Less than 0.01 (@1 ATM and 25°C. n-butyl acetate = 1)

ODOR: Mild Petroleum oil like

APPEARANCE: Amber Viscous Liquid

VISCOSITY: 14.0 – 16.0 @ 40°C 5.1 Ref. cSt @ 100°C

POUR: -55°F

SECTION 5 - STABILITY

STABILITY: Stable
INCOMPATIBILITY: Oxidizing agents and acids.
POLYMERIZATION: Will not occur.
THERMAL DECOMPOSITION: Smoke, carbon monoxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and short chain alkyl mercaptans may also be released. Under combustion conditions, oxides of the following elements will be formed: Nitrogen, Phosphorus, Sulfur.

SECTION 7 - SPILL OR LEAK PROCEDURES

SPILL PROCEDURES: Prevent entry into sewers and waterways. Pick up free liquid for recycle or disposal. Absorb small amounts with an inert material.

WASTE DISPOSAL: Dispose according to current local, state and federal regulations. Materials may become hazardous waste through use. If permitted, incineration may be practical. Consider recycling.

SECTION 8 - SPECIAL PRECAUTIONS

SPECIAL PRECAUTIONS: Keep containers closed when not in use. Do not handle or store near high heat or flames. Avoid breathing oil mists, wash skin thoroughly with soap and water after handling.

SECTION 9 - TRANSPORTATION AND OSHA LABELING INFORMATION

TRANSPORTATION INCIDENT INFORMATION: For further information relative to spills resulting from transportation incidents, refer to latest Department of Transportation Emergency Response Guidebook for Hazardous Materials Incidents.

U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION: Not Regulated.

OSHA REQUIRED LABEL INFORMATION: In compliance with hazard and right-to-know requirements, where applicable OSHA Hazard Warnings may be found on the label, bill of lading or invoice accompanying this shipment.

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N.A. = Not Applicable N.D. = Not Determine N.E. = Not Established

SECTION VI - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID

Inhalation: Breathing of mists may cause irritation. If there is a problem, move party to fresh air.

Skin: Extended contact could cause irritation. Some personnel are more sensitive than others, wear gloves if necessary.

Eyes: Can cause irritation. Wear glasses or goggles as needed. If material gets into eyes, flush with water immediately for 15 minutes. If irritation persists, consult a physician.

Ingestion: No effects reported.

Most likely routes of entry: Skin, Eyes

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills and Leaks: Spills can be flushed into normal drainage or into the ground with water. An alternate is also to take up with an absorbent material and dispose of in accordance with local regulations.

Storage and Handling: Check daily for any leaks from containers, vessels, pumps, and piping.

Waste Disposal: May be disposable in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility.

Empty Containers: n/a

Other Precautions: n/a

SECTION VIII - REGULATORY INFORMATION

Reportable for SARA Title III, S.313 (Form R): none

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