

MATERIAL SAFETY DATA SHEET

Sample Product



Date-Issued : 04/28/2006
MSDS Ref. No : SEASTAR
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Revision No : New MSDS

SEASTAR STEERING FLUID

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SEASTAR STEERING FLUID
GENERAL USE: Hydraulic Fluid
PRODUCT DESCRIPTION: High VI, ISO 15 Hydraulic Oil
PRODUCT CODE: HA5430
PRODUCT FORMULATION NAME: Seastar Steering Fluid

MANUFACTURER

FUCHS LUBRICANTS CANADA LTD.
 Pacific Division
 19829 - 99A Avenue
 Langley, BC V1M 3G4
Contact: Technical Services Dept.
Product Stewardship: (604) 888-1552

SUPPLIER

FUCHS LUBRICANTS CANADA LTD.
 19829 - 99A Avenue
 Langley, BC V1M 3G4
Contact: (604) 888-1552
Product Stewardship: (604) 888-1552

24 HR. EMERGENCY TELEPHONE NUMBERS

(604) 888-1552

2. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT(S)

No hazardous ingredients

<u>CAS</u>	<u>% BY WEIGHT</u>
NA	0 - 100

See Section 8 for Exposure Limits

COMMENTS: Not a controlled product according to WHMIS regulations, OSHA regulations, I.A.T.A. regulations, D.O.T. regulations or M.O.T (TDG) regulations.

WHMIS CLASS: Not controlled under WHMIS

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: None Expected.

POTENTIAL HEALTH EFFECTS

EYES: None Expected.

SKIN: None Expected.

INGESTION: None Expected.

INHALATION: None Expected.

ACUTE TOXICITY: None known.

CHRONIC: None known.

CARCINOGENICITY: This product is not listed as a known or suspected carcinogen by IARC, OSHA, or the NTP.

MUTAGENICITY: None known.

REPRODUCTIVE TOXICITY

REPRODUCTIVE EFFECTS: None known.

TERATOGENIC EFFECTS: None known.

ROUTES OF ENTRY: Skin contact, eye contact, inhalation, ingestion

IRRITANCY: None Expected.

SENSITIZATION: None known.

4. FIRST AID MEASURES

EYES: Flush eyes with plenty of water for several minutes. Get medical attention if eye irritation develops.

SKIN: Wash with soap and water.

INGESTION: If small amounts are ingested, first aid measures are not likely to be necessary. If larger amounts are ingested or if symptoms of ingestion occur, dilute stomach contents with two glasses of water or milk. (NOTE: Do NOT give anything by mouth to an unconscious person.) Do not induce vomiting without medical supervision. If vomiting occurs spontaneously, keep airway clear. If symptoms of ingestion persist, seek medical attention.

INHALATION: Inhalation is not an expected route of exposure. If respiratory irritation occurs, remove employee to fresh air. If symptoms persist, seek immediate medical attention.

NOTES TO PHYSICIAN: No further data known.

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: 110°C COC (Cleveland Open Cup)

FLAMMABLE LIMITS: N. Av.

AUTOIGNITION TEMPERATURE: N. Av.

EXTINGUISHING MEDIA: In accordance with NFPA guidance, dry chemical, foam, or CO2 fire extinguishers are all acceptable. Note that while water fog extinguishers are also acceptable, do NOT apply a direct stream of water onto burning product because it may cause spreading and increase fire intensity.

HAZARDOUS COMBUSTION PRODUCTS: Combustion may produce oxides of carbon and incompletely burned hydrocarbons in the form of fumes and smoke.

SENSITIVE TO STATIC DISCHARGE: None known.

SENSITIVITY TO IMPACT: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

6. ACCIDENTAL RELEASE MEASURES

GENERAL PROCEDURES: Prevent from entering water systems. Mop up, wipe up or soak up with absorbent material or contain in closed vessel.

7. HANDLING AND STORAGE

HANDLING: Keep away from incompatible substances. Do not take internally. Avoid contact with skin and eyes.

STORAGE: Protect product quality by storing indoors and away from extreme temperatures. Close all containers when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: This product contains mineral oil which has a TLV of 5mg/m3 (1 mg/m3 in BC) as mist. Good general ventilation should be sufficient. It is recommended that ventilation be designed to maintain airborne concentrations at lowest practicable levels. Ventilation should at a minimum, prevent airborne concentrations from exceeding any exposure limits listed in Section 8 of this MSDS.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear eye protection appropriate to prevent eye exposure. Where splashing is not likely, chemical safety glasses with side shields are recommended. Where splashing may occur, chemical goggles or full face shield is recommended.

SKIN: For prolonged or repeated contact, wear rubber or viton gloves.

RESPIRATORY: Not generally required. If necessary, a respirator may be worn to reduce exposure to vapors, dust, or mist. Select a NIOSH approved respirator for the type of physical character of the airborne material.

PROTECTIVE CLOTHING: Coveralls are sufficient. Where splashing or soaking is likely, wear oil or chemical resistant clothing to prevent exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid

ODOR: Mild

APPEARANCE: Clear yellow

VAPOR PRESSURE: N. Av.

VAPOR DENSITY: N. Av.

POUR POINT: -41°C

SOLUBILITY IN WATER: Insoluble

EVAPORATION RATE: N. Av.

SPECIFIC GRAVITY: 0.847 @15.6°C

ODOR THRESHOLD: N. Av.

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

STABILITY: Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

INCOMPATIBLE MATERIALS: This product is incompatible with strong oxidizing agents.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: No further toxicological data known.

SKIN EFFECTS: No further toxicological data known.

CARCINOGENICITY:

CARCINOGENICITY COMMENTS: This product is not listed as a carcinogen by IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: The degree of biodegradability and persistence of this product has not been determined.

ECOTOXICOLOGICAL INFORMATION: This product has not been evaluated for ecotoxicity. As with any industrial chemical, exposure to the environment should be minimized wherever possible.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Ensure that collection, transport, treatment and disposal of waste product, containers and rinsate complies with all applicable laws and regulations. Note that use, mixture, processing or contamination of the product may cause the material to be classified as a hazardous waste. It is the responsibility of the product user or owner to determine at the time of disposal, whether the product is regulated as a hazardous waste.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

OTHER SHIPPING INFORMATION: Not otherwise DOT regulated.

CANADA TRANSPORT OF DANGEROUS GOODS

TDG NOTE: Not Regulated by TDG.

AIR (ICAO/IATA)

NOTE: Not regulated.

VESSEL (IMO/IMDG)

NOTE: Not regulated.

15. REGULATORY INFORMATION

UNITED STATES

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients in this mixture are in compliance with TSCA.

CANADA

WHMIS (WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM): This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

DOMESTIC SUBSTANCE LIST (INVENTORY): This product, or its components, are listed on or are exempt from the Canadian Domestic Substance List (DSL).

COMMENTS: This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations (CPR)* and the MSDS contains all of the information required by the *CPR*.

16. OTHER INFORMATION

APPROVED BY: JW

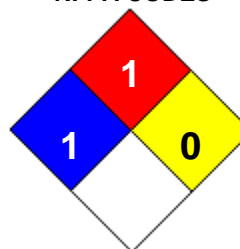
PREPARED BY: Health & Safety Dept.

REVISION SUMMARY New MSDS

HMIS RATING

HEALTH:		1
FLAMMABILITY:		1
PHYSICAL HAZARD:		0
PERSONAL PROTECTION:		X

NFPA CODES



MANUFACTURER SUPPLEMENTAL NOTES: Abbreviations used: N. Av. = Not Available, N.A. = Not Applicable, N.D. = Not Determined

ACGIH TLV (Threshold Limit Value) - A term used by the American Conference of Governmental Industrial Hygienists to express the airborne concentration of a material to which nearly all persons can be exposed day after day without adverse effects. ACGIH expresses TLVs in three ways:

- **TLV-TWA:** = The allowable Time Weighted Average concentration for a normal 8-hour workday of a 40-hour workweek.
- **TLV-STEL:** = The Short-Term Exposure Limit, or maximum concentration for a continuous 15-minutes exposure period. A maximum of four such periods per day, with at least 60 minutes between exposure periods are allowed, provided that the daily TLV is not exceeded.
- **TLV-C:** = The Ceiling exposure limit; the concentration that should not be exceeded even instantaneously.

OSHA PEL (Permissible Exposure Limits): An exposure limit established by the Occupational Safety and Health Administration. May be a time weighted average (TWA) limit or ceiling (C) exposure limit.

MANUFACTURER DISCLAIMER: The information contained herein is to the best of knowledge and believed to be accurate. However, since the condition of handling and use are beyond our control we make no guarantee of results, and assume no responsibility for damages incurred through use of this material. It is the responsibility of the user to comply with all Federal, Provincial and local laws and regulations. Physical data is intended solely for use in evaluating the product with respect to WHMIS and does not constitute a product specification.