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SAFETY DATA SHEET

QATOL FLUID XLD FE

PRODUCT AND COMPANY IDENTIFICATION:

Product Name: QATOL FLUID XLD FE

Use of the substance/Mixture:

Company Identification:

QATOL INDUSTRIES

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COMPOSITION / INFORMATION ON INGREDIENTS:

Substance/Mixture: Mixture

Highly refined base oil (IP 346 DMSO extract < 3%). Proprietary performance additives.

Ingredients:

Product/ingredient name	CAS no.	Classification	Concentration (%)
1-Decene, homopolymer, hydrogenated	Mixture	68037-01-4 CAS	70 - 99 %weight
Additives	PROPRIETARY	***	1- 30%

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

HAZARD IDENTIFICATION:

Statement of Hazardous Nature:

This product is classified as: Non-Hazardous according to the criteria of SWA. Not a Dangerous Good according to the Australian Dangerous Goods (ADG) Code.

Risk Phrases: Not Hazardous – No criteria found.

Safety Phrases: S23, S25. Do not breathe mists. Avoid contact with eyes. SUSMP

Classification: None allocated.

ADG Classification: None allocated. Not a Dangerous Good under the ADG Code.

UN Number: None allocated

FIRST-AID MEASURES:

Skin: First aid is normally required. Immediately remove all soiled or stained clothing. Wash the affected area immediately and repeatedly with soap and water.

Eye: Keep eyes open and rinse immediately and repeatedly with water for at least 15 minutes.

Inhalation (Breathing): First aid is normally required. Inhalation of heavy concentrations of vapors, fumes or spray, may cause mild irritation of the throat. If breathing difficulties develop, move victim away from source of exposure and into fresh air, keep warm and allow to rest. Seek immediate medical attention.

Ingestion (Swallowing): First aid is normally required. Possible risk of vomiting and diarrhea. Do not induce vomiting to avoid the risk of aspiration into the respiratory tract. Give nothing to drink. However, if swallowed and symptoms develop, seek medical attention.

aspiration: If the product is believed to have entered the lungs (in case of vomiting, for example), take the person to hospital for immediate care.

FIRE-FIGHTING MEASURES:

The major hazard in fires is usually inhalation of heated and toxic or oxygen deficient (or both), fire gases. This product is classified as a C2 combustible product. There is no risk of an explosion from this product under normal

circumstances if involved in a fire. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying areas, forming potentially explosive mixtures. They may also flash back considerable distances. Fire decomposition products from this product may be toxic if inhaled. Extinguishing Media: Suitable extinguishing media are carbon dioxide, foam, dry chemical and water fog. Fire Fighting: If a significant quantity of this product is involved in a fire, call the fire brigade.

Flashpoint: >2250C (ASTM E 659)

Upper Flammability Limit: No data

Lower Flammability Limit: No data

Autoignition Temperature: No data Flammability Class: C2

Fire Fighting Instructions: For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is un-known, in enclosed or confined spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant.

Isolate immediate hazard area, keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk.

Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Cool equipment exposed to fire with water, if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

ACCIDENTAL RELEASE MEASURES:

This material may burn, but will not ignite readily. Keep all sources of ignition away from spill/release. Stay upwind and away from spill/release. Notify persons downwind of the spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant.

Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems, and natural waterways. Dike far ahead of spill for later recovery

or disposal. Spilled material may be absorbed into an appropriate absorbent material.

Notify fire authorities and appropriate federal, state, and local agencies. If spill of any amount is made into or upon navigable waters, the contiguous zone, or adjoining shorelines.

HANDING AND STORAGE:

Handling: "Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death.

"Empty" drums should be completely drained, properly bunged, and promptly shipped to the supplier or a drum reconditioned. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

Storage: Keep container(s) tightly closed. Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Store only in approved containers. Keep away from any incompatible material. Protect container(s) against physical damage.

Ventilation: Normal ventilation is adequate.

EXPOSURE CONTROLS/PERSONAL PROTECTION:

Engineering Measures: If current ventilation practices are not adequate to maintain air-borne concentrations below the established exposure limits (see Section 2), additional engineering controls may be required.

Personal Protection Equipment:

Respiratory- A NIOSH certified air purifying respirator with a Type 95 (R or P) particulate filter may be used under Protection provided by air purifying respirators is limited. Use a NIOSH approved self-contained breathing apparatus (SCBA) or

equivalent operated in a pressure demand or other positive pressure mode if there is potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection

Skin: The use of gloves impervious to the specific material handled is advised to prevent skin contact and possible irritation (see manufacturers literature for information on permeability). Examples of approved materials are nitrile and neoprene.

Eye/Face: While contact with this material is not expected to cause irritation, the use of approved eye protection to safeguard against potential eye contact is considered good practice.

Other Protective Equipment: A source of clean water should be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

PHYSICAL AND CHEMICAL PROPERTIES:

Physical Description & Colour: Clear red liquid

Odour: Characteristic odour

Pour Point: <-210C (ASTM D 97) **Volatiles:** Nil at 1000C

Vapour Pressure: Nil at normal ambient temperatures.

Specific Gravity: 0.850 at 150C

Water Solubility: Negligible at 200C

Autoignition Temperature: No data **Coeff Oil/Water Distribution:** No data **Kinematic Viscosity at 400C:** 34mm²/s

STABILITY AND REACTIVITY:

Chemical Stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Incompatibility with Other Materials: May react with strong acids or strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

Hazardous Decomposition Products: none

Hazardous Polymerization: Hazardous polymerization will not occur.

TOXICOLOGICAL INFORMATION:

This product contains petroleum base oils which may be refined by various processes including severe solvent extraction, severe hydrocracking, or severe hydro treating. None of the oils re-quires a cancer warning under the OSHA Hazard Communication Standard (29 CFR 1910.1200). These oils have not been listed in the National Toxicology Program (NTP) Annual Report nor have they been classified by the International Agency for Research on Cancer (IARC) as; carcinogenic to humans (Group 1), probably carcinogenic to humans (Group 2A), or possibly carcinogenic to humans (Group 2B).

These oils have not been classified by the American Conference of Governmental Industrial Hygienists (ACGIH) as:

Confirmed human carcinogen (A1), suspected human carcinogen (A2), or confirmed animal carcinogen with unknown relevance to humans (A3).

During use in engines, contamination of oil with low levels of cancer-causing combustion products occurs.

Used motor oils have been shown to cause skin cancer in mice following repeated application and continuous exposure. Brief or intermittent skin contact with used motor oil is not expected to have serious effects in humans if the oil is thoroughly removed by washing with soap and water.

ECOLOGICAL INFORMATION:

ECOTOXICITY

This material is not expected to be harmful to aquatic organisms.

ENVIRONMENTAL FATE

This material is not expected to be readily biodegradable.

DISPOSAL CONSIDERATIONS:

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a

manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

TRANSPORT INFORMATION:

The description shown may not apply to all shipping situations. Consult 49CFR, or appropriate

Dangerous Goods Regulations, for additional description requirements (e.g., technical name) and mode specific or quantity-specific shipping requirements.

DOT Shipping Description: PETROLEUM LUBRICATING OIL, NOT REGULATED AS A HAZARDOUS MATERIAL FOR TRANSPORTATION UNDER 49 CFR

Additional Information:

NOT HAZARDOUS BY U.S. DOT. ADR/RID HAZARD CLASS NOT APPLICABLE.

IMO/IMDG Shipping Description: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER THE IMDG CODE

ICAO/IATA Shipping Description: PETROLEUM LUBRICATING OIL; NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORT UNDER ICAO

REGULATORY INFORMATION:

EPCRA 311/312 CATEGORIES:

1. Immediate (Acute) Health Effects: YES
2. Delayed (Chronic) Health Effects: YES
3. Fire Hazard: YES
4. Sudden Release of Pressure Hazard: NO
5. Reactivity Hazard: NO

OTHER INFORMATION:

Revision No; Rev-00

Risk Phases in Full: Not classified

REGULATORY LISTS SEARCHED:

01-1 =IARC Group 1 03=EPCRA 313 07=PA RTK
01-2A =IARC Group 2A 04=CA Proposition 65
01-2B =IARC Group 2B 05=MA RTK
02 =NTP Carcinogen 06=NJ RTK

No components of this material were found on the regulatory lists above.

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value
TWA - Time Weighted Average
STEL - Short-term Exposure Limit
PEL - Permissible Exposure Limit
CAS - Chemical Abstract Service Number
ACGIH - American Conference of Government Industrial Hygienists
IMO/IMDG - International Maritime Dangerous Goods
Code
API - American Petroleum Institute
MSDS - Material Safety Data Sheet
NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)
NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer
OSHA - Occupational Safety and Health Administration.

The Information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and is not valid for such material used in combination with any other material or in any process, unless specified in the text.