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SDS

Safety Data Sheet

3-1-2021

Multi-Function Hydraulic Oil 10211

Section 1 - Product Identification

Product Name: Multi-Function Hydraulic Oil
 Product Part Number: 10211
 Product Type: Hydraulic Oil

Recommended use of the chemical and restrictions on use:

Application _____ Hydraulic Oil - Use Only as Intended.
 Uses advised against _____ DO NOT use this material in oxygen service.

Details of the supplier of the safety data sheet:

Manufacturer:
 DUALCO, Inc.
 8404 Braniff, Houston, Texas 77061
 Telephone: 713-644-1164 Website: dualco-inc.com

Emergency Telephone Number:

Emergency Telephone _____ 713-644-1164

Section 2 - Hazardous Identification

Label Elements

Hazard Symbol _____ None
 Signal Word _____ None
 Hazard Statement _____ None
 Precautionary Statement _____ None
 Prevention _____ None
 Storage _____ Store within accordance to regulations.
 Disposal _____ Dispose within accordance to regulations.

Hazard Not Otherwise Classified (HNOC): None as defined under 29 CFR 1910

Physical / Chemical Hazards: Not classified

Health Hazards: Not classified

Environmental Hazards: No significant hazards.

NOTE: This material should not be used for any other purpose than the intended use in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks which may vary from person to person.

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Section 3 - Composition / Information on Ingredients**Mixtures**

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*
Distillates (petroleum), hydrotreated heavy paraffinic	64742	<50%
Other Non Classifiable Mixtures	N/A	>70%

* All concentrations are percent by weight.

As per paragraph (i) of 29 CFR 1910.1200, formulation is considered a trade secret and specific chemical identity and exact percentage (concentration) of composition may have been withheld. Specific chemical identity and exact percentage composition will be provided to health professionals, employees, or designated representatives in accordance with applicable provisions of paragraph (i).

Section 4 - First Aid Measures**Inhalation:**

Avoid prolonged inhalation vapors. Remove exposed person to fresh air.
Seek medical attention if symptoms persist.

Skin Contact:

Wash contact areas with soap and water. If skin irritation develops or persists, seek medical attention.

Eye Contact:

Flush thoroughly with water. If irritation occurs, medical assistance.

Ingestion:

First aid is normally not required. Seek medical attention if discomfort occurs.

Section 5 - Fire Fighting Measures**Extinguishing Media:**

- **Appropriate Extinguishing Media:** Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.
- **Inappropriate Extinguishing Media:** Straight Streams of Water

Fire Fighting:

Fire Fighting Instructions: Evacuate area. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply. Firefighters should use standard protective equipment and in enclosed spaces, self-contained breathing apparatus. (SCBA)

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Section 6 - Accidental Release Measures

Notification Procedures:

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. US regulations require reporting releases of this material to the environment which exceed the applicable reportable quantity or oil spills which could reach any waterway including intermittent dry creeks.

Protective Measures:

Avoid contact with spilled material. See Section 5 for fire fighting information. See the Hazard Identification Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for advice on the minimum requirements for personal protective equipment. Additional protective measures may be necessary, depending on the specific circumstances and/or the expert judgment of the emergency responders.

Spill Management:

Land Spill: Stop leak if you can do it without risk. Recover by pumping or with suitable absorbent.

Water Spill: Stop leak if you can do it without risk. Confine the spill immediately with booms. Warn other shipping. Remove from the surface by skimming or with suitable absorbents. Seek the advice of a specialist before using dispersants.

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

Environmental Precautions:

Large Spills: Dike far ahead of liquid spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

Section 7 - Handling and Storage

Handling:

Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or fumes. Wash thoroughly after handling. Wash with soap and water before eating, drinking, smoking, or toilet facilities. Read and observe all precautions on product label.

Storage:

Must be stored in a seal-able container. Store in a cool well ventilated area. Do not use pressure to empty containers. Empty containers may still hold residue, please dispose per local regulations.

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Section 8 - Exposure Controls / Personal Protection

Exposure limits/standards for materials that can be formed when handling this product:

Components	CAS#	Value Type (form of exposure)	Controls, parameters / permissible concentration	Basis / Threshold Limit Values
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	TWA	5mg/m ³	U.S. ACGIH
		Mist	5mg/m ³	OSHA-TRANS

NOTE: Limits/standards shown for guidance only. Follow applicable regulations.
No biological limits allocated.

Engineering Controls:

The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Control measures to consider:

No special requirements under ordinary conditions of use and with adequate ventilation.

Personal Protection:

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: If engineering controls do not maintain airborne contaminant concentrations at a level which is adequate to protect worker health, an approved respirator may be appropriate. Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.

Personal Protection (cont.):

Hand Protection: Any specific glove information provided is based on published literature and glove manufacturer data. Glove suitability and breakthrough time will differ depending on the specific use conditions. Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. Inspect and replace worn or damaged gloves.

Eye Protection: If eye contact is likely, safety glasses with side shields are recommended.

Skin and Body Protection: Any specific clothing information provided is based on published literature or manufacturer data.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

Environmental Controls:

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect the environment by applying appropriate control measures to prevent or limit emissions.

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Section 9 - Physical and Chemical Properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Contact the Supplier for additional information.

General Information:

Physical State: _____ Liquid
 Color: _____ Pale Yellow
 Odor: _____ Mild Petroleum
 Odor Threshold: _____ N/D

Important Health, Safety, And Environmental Information:

Vapor Density (air =1): _____ >2 @ 101kPa
 Flammability (Solid, Gas): _____ N/A
 Flash Point [Method]: _____ >200°C
 Flammable Limits (Approximate volume % in air): _____ LEL: 0.9 UEL: 7.0
 Autoignition Temperature: _____ N/D
 Boiling Point / Range: _____ N/D
 Decomposition Temperature: _____ N/D
 Vapor Pressure (air =1): _____ < 0.013 kPa (0.1 mm Hg) at 20°C
 Evaporation Rate (n-butyl acetate = 1): _____ N/D
 pH: _____ N/A
 Log Pow (n-Octanol/Water Partition Coefficient): _____ > 3.5
 Solubility in Water: _____ Insoluble
 Viscosity: _____ 46 cSt (46 mm²/sec) at 40°C
 Oxidizing Properties: _____ See Hazards Identification Section.

Section 10 - Stability And Reactivity

Reactivity:

Not chemically reactive.

Stability:

Material is stable under normal conditions.

Conditions to Avoid:

Excessive heat. High energy sources of ignition.

Materials to Avoid:

Strong oxidizers

Hazardous Decomposition Products:

Material does not decompose at ambient temperatures.

Possibility of Hazardous Reactions:

Hazardous reactions will not occur.

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Section 11 - Toxicological Information

Information On Toxicological Effects

Acute Toxicity	Hazard	Additional Information
Inhalation	Unlikely- Low Toxicity	LC50: > 5mg/L
Oral	Unlikely- Low Toxicity	
Dermal	Unlikely- Low Toxicity	

Skin Corrosion/ Irritant:

Causes mild irritation due to extended exposure.

Serious Eye Damage/ Irritation:

Causes mild eye irritation if exposed directly.

Aspiration Hazard:

Not expected to be an aspiration hazard.

Skin Sensitization:

No studies available on the mixture. All components either are not classified for skin sensitization or are below classification amounts.

Respiratory Sensitization:

No studies available on the mixture. All components either are not classified for respiratory sensitization or are below classification amounts.

Specific Target Organ Toxicity (Single Exposure):

No studies available on the mixture. All components either are not classified for or are below classification amounts.

Carcinogenicity:

No studies available on the mixture. All components either are not classified for carcinogenicity or are below classification amounts.

Germ Cell Mutagenicity:

No studies available on the mixture. All components either are not classified for germ cell mutagenicity or are below classification amounts.

Reproductive Toxicity:

No studies available on the mixture. All components either are not classified for reproductive toxicity or are below classification amounts.

Other Information

Contains: Base oil severely refined: Not carcinogenic in animal studies. Representative material passes IP- 346, Modified Ames test, and/or other screening tests. Dermal and inhalation studies showed minimal effects; lung non-specific infiltration of immune cells, oil deposition and minimal granuloma formation.

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Section 12 - Ecological Information

The information given is based on data available for the material, the components of the material, and similar materials.

GHS Classification:

None.

Eco-toxicity:

Base Oil- Expected to be practically non toxic. LL, EL, IL 50 > 100 mg/l

Mobility:

Base oil component -- Low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

Persistence and Degradability:

Biodegradation: Base oil component -- Expected to be inherently biodegradable.

Bioaccumulation Potential:

Base oil component -- Has the potential to bioaccumulate, however metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

Section 13 - Disposal Considerations

Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Disposal Recommendations:

Protect the environment. Dispose of used oil at designated sites. Minimize skin contact. Do not mix used oils with solvents, brake fluids or coolants.

Regulatory Disposal Information:

RCRA Information: The unused product, in our opinion, is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials which are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity or reactivity and is not formulated with contaminants as determined by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

Empty Container Warning: Empty Container Warning (where applicable): Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed. Empty containers should be taken for recycling, recovery, or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

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Section 14 - Transport Information

Land (DOT):

Not Regulated for Land Transport.

Land (TDG):

Not Regulated for Land Transport.

Sea (IMDG):

Not Regulated for Sea Transport according to IMDG-Code.

Air (IATA):

Not Regulated for Land Transport.

Section 15 - Regulatory Information

OSHA Hazard Communication Standard:

This material is not considered hazardous in accordance with OSHA HazCom 2012, 29 CFR 1910.1200.

Listed or exempt from listing/notification on the following chemical inventories:

AICS, DSL, IECSC, PICCS, TSCA

EPCRA Section 302:

This material contains no extremely hazardous substances.

SARA (311/312) Reportable Hazard Categories:

None.

SARA (313) Toxic Release Inventory:

This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

Section 16 - Other Information

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Revision 1

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This Safety Data Sheet Contains The Following Revisions:

Updates made in accordance with implementation of GHS requirements.