

Safety Data Sheet

Revision Date 24-May-2019

Version 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<u>Product identifier</u> Product name	R&O Hydraulic Fluid: ISO 32, 46, 68, 100, 150, 220, 320, 460
Other means of identification Product Code(s) Synonyms	1222, 1223, 1224, 1225, 1226, 1227, 1228, 1229 No information available
Recommended use of the chemical	and restrictions on use
Recommended Use	Rust and Oxidation Hydraulic Oil, Turbine Oil, Lubricant.
Uses advised against	No information available
Details of the supplier of the safety of Manufacturer Address Hicks Oils 845 N. Hickory Street Du Quoin,IL 62832 TEL: 1-618-542-5431 Emergency telephone number	data sheet
Company Phone Number	1-618-542-5431
Company Emergency Phone	(618) 542-5431
Number	
Emergency telephone number	Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Label elements

EMERGENCY OVERVIEW

Appearance Amber colored liquid

Physical state Viscous Liquid

Odor Mild petroleum odor

Hazards not otherwise classified (HNOC)

Other information

Unknown Aquatic Toxicty

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Common Name Chemical Family

Hydrocarbon Lubricating Fluid. Petroleum hydrocarbon mixture.

Chemical name	CAS-No	Weight %	Trade secret

Lubricating oils, petroleum, hydrotreated spent	64742-58-1	0-99	*
Residual Oils (petroleum), solvent-dewaxed	64742-62-7	0-96	*
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	0-99	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

No hazards which require special first aid measures.

First aid measures	
General advice	

Eye contact	Flush eyes for 30 minutes with water. Get medical attention if irritation persists.
Skin contact	Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water or a waterless hand cleaner. If irritation or redness develops and persists, seek medical attention.
Inhalation	Move exposed persons to fresh air. Consult medical personnel if breathing issues occur.
Ingestion	Do NOT induce vomiting. Consult a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide (CO₂). Dry chemical. Foam. Water can be used to keep surrounding materials cool.

Small Fires	Always use personal safety equipment. Follow appropriate personal safety procedures, and
	extinguishing media.

Large Fires Contact emergency personnel.

Unsuitable extinguishing media Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the chemical

Combustible material.

Hazardous combustion products Carbon monoxide. Carbon dioxide (CO₂).

Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal protection

Avoid contact with the skin and the eyes. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. Wash skin with

soap and water if contact occurs. Launder soiled clothing. If spilled, take caution, as material can cause surfaces to become very slippery.

Environmental precautions	
Environmental precautions	See Section 12 for additional Ecological Information.
Methods and material for containm	ent and cleaning up
Methods for containment	Cover with earth, sand, or other non-combustible material followed with plastic sheets to minimize spreading or contact with rain.
Methods for cleaning up	Excess liquid material can be collected using a scoop or shovel and stored for recycling or disposal. Prevent material from entering drains or waterways.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes and clothing. Eye protection or face shield should be used if material is used under conditions that increase the chances of splattering. If contact is made, wash skin with soap and water. Launder soiled clothing. Maximum handling temperature is 70 degrees C (158 F). It is recommended to pump or transfer material at ambient temperature.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep away from heat and sources of ignition. Keep containers closed when not in use. Follow first aid measures if contact occurs, and spill procedures if spill occurs. For packaged material: Store in a cool dry area. For bulk material: store in cool dry area. Always follow local, state, and federal guidelines for storage of material for amount stored.
Incompatible Products	Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated	TWA: 5 mg/m ³	TWA: 5 mg/m ³	IDLH: 2500 mg/m ³
heavy paraffinic			TWA: 5 mg/m ³
64742-54-7			STEL: 10 mg/m ³

Appropriate engineering controls

Engineering Controls Showers Evewash

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face Protection	If splashes are likely to occur, wear:. Goggles. Eye/face Protection.
Skin and body protection	Long sleeved clothing. Protective gloves can be worn, if material comes in contact with skin wash with soap and water.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations

Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Appearance	Viscous Liquid Amber colored liquid	Odor	Mild petroleum odor
Color	amber	Odor threshold	No information available
Property	<u>Values</u>	Remarks • Method	
pH	No information available		
Melting point/freezing point	No information available		
Boiling Point/Range	No information available > 148.8 °C / > 300 °F	Claveland anon our (CO	
Flash point Evaporation rate	No information available	Cleveland open cup (CO	C)
Flammability (solid, gas)	No information available		
Flammability Limit in Air			
Upper flammability limit:	No information available		
Lower flammability limit:	No information available		
Vapor pressure	No information available		
Vapor density	No information available		
Specific gravity	0.87-0.89		
Water solubility	No information available		
Solubility in other solvents	No information available		
Partition coefficient	No information available		
Autoignition temperature			
Decomposition temperature	No information available		
Kinematic viscosity	32-460 @40C mm2/s		
Dynamic viscosity	No information available		
Explosive properties	No information available		
Oxidizing properties	No information available		
Other information			
Softening point	No information available		
VOC Content	No information available		
Density	No information available		
Bulk density	No information available		
10. STABILITY AND REACTIVITY			

Reactivity

No data available

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Excessive heat. High energy sources of ignition.

Incompatible materials

Strong oxidizing agents.

Pr

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

roduct Information	No data available
Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system.
Eye contact	Avoid contact with eyes. May cause irritation.
Skin contact	May cause eye/skin irritation. Repeated exposure may cause skin dryness or cracking.
Ingestion	Do NOT taste or swallow.

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Lubricating oils, petroleum, hydrotreated spent 64742-58-1	> 2000 mg/kg (Rat)	> 4480 mg/kg (Rabbit)	-
Residual Oils (petroleum), solvent-dewaxed 64742-62-7	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2.18 mg/L (Rat)4 h
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	> 15 g/kg (Rat)> 24 g/kg (Rat)	> 5000 mg/kg (Rabbit)	= 2062 ppm (Rat)4 h

Information on toxicological effects

Symptoms

No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Germ cell mutagenicity Carcinogenicity No information available. No information available. Mineral oils are known to cause cancer because of carcinogenic components (e.g. benzene). The mineral oil in this product is highly refined and should not be considered a carcinogen. Used lubricating oil may contain hazardous components which have the potential to cause skin cancer. Continuous long-term contact with used lubricating oils has caused skin cancer in animal tests.

Chemical name	ACGIH	IARC	NTP	OSHA
Residual Oils (petroleum), solvent-dewaxed 64742-62-7	-	Group 1	Known	Х
Petroleum distillates, hydrotreated heavy paraffinic 64742-54-7	-	Group 1	Known	Х

Reproductive toxicity STOT - single exposure STOT - repeated exposure Aspiration hazard No information available. No information available. No information available. No information available.

Numerical measures of toxicity - Product Information

Unknown Aquatic Toxicty 0% of the mixture consists of ingredient(s) of unknown toxicity The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Residual Oils (petroleum), solvent-dewaxed	-	5000: 96 h Oncorhynchus mykiss	1000: 48 h Daphnia magna mg/L
64742-62-7		mg/L LC50	EC50
Petroleum distillates, hydrotreated heavy	-	5000: 96 h Oncorhynchus mykiss	1000: 48 h Daphnia magna mg/L
paraffinic		mg/L LC50	ÉC50
64742-54-7			

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

 Waste Disposal Method
 Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container.

14. TRANSPORT INFORMATION

DOT

Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	No
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Petroleum distillates, hydrotreated	Х	-	Х
heavy paraffinic			
64742-54-7			

U.S. EPA Label Information

EPA Pesticide registration number Not Applicable

16. OTHER INFORMATION					
NFPA	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical Hazards -	
HMIS	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X	
Issuing Date 21-Jun-2010 Revision Date 24-May-2019 Revision Note SDS sections updated 2 3 9 11 16 Disclaimer The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its					

publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of MSDS