

Safety Data Sheet

TRUEGARD R&O HYDRAULIC OILS 68, 100

According to OSHA Hazard Communication Standard,
29 CFR 1910.1200 Effective Date 02/01/2018



SECTION 1

MATERIAL AND COMPANY IDENTIFICATION

Material Name: TRUEGARD R&O HYDRAULIC OILS 68, 100

Recommended Use: Lubricant

Restrictions on Use: It is against federal law to use this product inconsistent with its labeling.

Information Phone: 773-247-7606

Emergency Phone: Poison Control Center: Consult local telephone directory for emergency number(s).

Supplied by:

KELLER-HEARTT OIL
4411 South Tripp Ave.
Chicago, IL 60632
P. 773-247-7606 F. 773-247-7969
www.kellerheartt.com

SECTION 2

HAZARDS IDENTIFICATION

OSHA Status Not Hazardous

GHS HAZARD CLASS

Physical Hazards Not classified

Health Hazards Not classified

Environmental Hazards Not classified

GHS Symbol/Pictogram None

Signal Word None

Hazard Statements None

Precautionary Statements

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
Do not eat, drink or smoke when using this product
Avoid breathing dust, fumes, gas, mist, vapors, spray
Wash thoroughly after handling
Wear protective gloves, protective clothing, eye protection, face protection

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Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician Do not induce vomiting IF ON SKIN: Wash with plenty of water IF ON SKIN (or hair): Remove all contaminated clothing. Rinse skin with water If skin irritation occurs, get medical advice/attention IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER/doctor/physician if you feel unwell Specific treatment (see first aid section) In case of fire: Use foam, CO2, dry chemical
Storage	Store in a well ventilated place. Keep container closed when not in use Keep cool Store in a secure location
Disposal	Dispose of contents/container in accordance with local/state/federal regulations Avoid release to the environment

SECTION 3

COMPOSITION/INFORMATION ON INGREDIENTS

Substance _____ Mixture X

Chemical Name	CAS#	%
Highly Refined Petroleum Oils *	64742-52-5 64742-54-7	80-100%

* Hazardous only if misted

SECTION 4

FIRST AID MEASURES

Description Of Necessary First Aid Measures

Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

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Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

SECTION 5

FIRE FIGHTING MEASURES

Extinguishing Media

Suitable

Foam, CO₂, dry chemicals, water fog or mist.

Unsuitable

Do not use water jet.

Specific Hazards

In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous Decomposition Products

Oxides of carbon, sulfur.

Special Precautions – Fire Fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if it can be done without risk. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment – Fire Fighters

Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

SECTION 6

ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment And Emergency Procedures

For Non-Emergency Personnel

Take no action involving personal risk without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery, use care to avoid falling.

For Emergency Responders

If specialized clothing is required to deal with the spillage, take note of any information in Section VIII on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".

Environmental Precautions

Avoid dispersal of spilled products and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product causes environmental pollution.

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Methods And Materials For Containment And Cleaning Up

Small Spill

Stop leak if without risk. Eliminate ignition sources. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill

Stop leak if without risk. Eliminate ignition sources. Move containers from spill area. Prevent entry into sewers, waterways, basements or confined areas. Contain and collect spillage with noncombustible, absorbent material and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

SECTION 7

HANDLING AND STORAGE

Precautions For Safe Handling

Protective Measures

Put on appropriate personal protective equipment (See Section VIII). Do not swallow. Avoid contact with eyes, skin, clothing. Avoid breathing vapor and mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Always bond receiving containers to the fill pipe before and during loading. Always confirm receiving container is properly grounded.

Advice On General Occupational Hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section VIII for additional information on hygiene measures.

Conditions For Safe Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section X) and food and drink. Keep away from heat, sparks and open flame. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8

EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits

Ingredient Name

Exposure Limits

Highly Refined Petroleum Oil *	ACGIH TLV-TWA	5 mg/m3 As Mist; 8 Hours
	NIOSH STEL	10 mg/m3 As Mist
	NIOSH TWA	5 mg/m3 As Mist
	OSHA PEL-Ceiling	5 mg/m3 As Mist

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Environmental Exposure Controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, vapor controls, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

Hygiene Measures

Wash hands, forearms and face thoroughly after handling chemical products and before eating, smoking or using the lavatory as well as at the end of the work period. Wash contaminated clothing before reusing.

Respiratory Protection

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Eye Protection

Safety glasses equipped with side shields in conjunction with a face shield are recommended in industrial settings.

Skin Protection

Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Liquid
Color Gold to amber

Odor Mild oil
Odor Threshold Not available

Ph None
Freezing Point 0 F
(Pour Point)

Initial Boiling Point 600 F+
Boiling Range 600 F+

Drop Point Not applicable
Flash Point 400 F

Evaporation Rate <1 (butyl acetate = 1)
Explosive Limits
Upper Not available
Lower Not available

Vapor Pressure Not available
Vapor Density Heavier than air

Specific Gravity 0.9
Density 7.43-7.56 Pounds/gallon

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Solubility	Insoluble in water
Auto Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	68,100 Hydraulic Oil cst @ 40 C
Partition coefficient (n-octanol/water)	Not available
Volatile Organic Compounds	Exempt (LVP)

SECTION 10

STABILITY AND REACTIVITY

Reactivity

Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS definitions

Chemical Stability

This product is stable under normal conditions.

Possibility Of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions To Avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible Materials

Reactive or incompatible with the following materials: Oxidizing materials.

Hazardous Decomposition Products

Oxides of carbon and sulfur.

SECTION 11

TOXICOLOGICAL INFORMATION

Primary Routes Of Exposure: Eye contact, Ingestion, Inhalation, Skin contact

Acute Toxicity Values: Not acutely toxic

Information On Toxicological Effects - Effects Of Overexposure

Inhalation	Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression).
Skin Contact	May cause mild skin irritation. Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Eye Contact	Contact with the eye may cause irritation. May cause tearing, redness and discomfort.
Ingestion	This material may be harmful or fatal if swallowed or if liquid is aspirated into lungs. Ingestion may cause gastrointestinal tract irritation. Can be readily absorbed by the stomach and intestinal tract. Symptoms include burning sensation of the mouth and esophagus, nausea, vomiting, diarrhea, dizziness, staggering gait, drowsiness, loss of consciousness and delirium as well as other central nervous system effects.

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Chronic Hazards	Not available.
Sensitization	
Respiratory	Not classified
Skin Sensitization	Not classified
Germ Cell Mutagenicity	Non-mutagenic based on Modified Ames Assay
Carcinogenicity	This product is not listed as a carcinogen by IARC, OSHA, NTP.
Fertility Effects	Contains no ingredient listed as toxic to reproduction.
Specific Target Organ Toxicity	
Single Exposure	Not classified
Repeated Exposure	Not classified
Aspiration Hazard	Not classified

SECTION 12

ECOLOGICAL INFORMATION

Ecotoxicity

Not available

Persistence & Degradability

Not available

Bioaccumulative Potential

Not available

Mobility In Soil

Not available

Other Adverse Effects

No known significant effects or critical hazards.

SECTION 13

DISPOSAL CONSIDERATIONS

Disposal Methods

Waste generation should be avoided or minimized wherever possible. Dispose of in accordance with federal, state, and local regulations. After the container has been emptied, it may contain hazardous residues. Avoid sparks and open flame. Do not cut, puncture, or weld on or near the container. Do not reuse the container for any purpose until properly reconditioned.

RCRA Classification

Non-Hazardous waste

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SECTION 14

TRANSPORT INFORMATION

DOT

UN#	Not regulated *
Description	Petroleum Oil, nos
Transport Hazard class	Not regulated
Packing Group	Not regulated

* DOT Regulated Only In Bulk Quantities

SECTION 15

REGULATORY INFORMATION

TSCA Inventory : All product ingredients are listed on the chemical inventory

US OSHA - Status : Not Hazardous

SARA Section 302 – Emergency Planning : No Listing

Chemical Reporting:

SARA 304 Release : No Established RQ/TPQ

SARA 313 : No Listing

CERCLA Release : No Established RQ/TPQ

SARA Section 311/312

Physical Hazard : No

Health Hazard : No

Clean Air Act

Ozone Depleting Compounds : No listing

Section 112 (r) , TQ : No listing

Hazardous Air Pollutants : No listing

SECTION 16

OTHER INFORMATION

The above mentioned information is believed to be correct as of the date hereof. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition the person receiving it shall make his own determination as to the suitability of the material for his particular use and on the condition he assume the risk of his use thereof.

HMIS HAZARD CLASS:

Health	1 (Slight)
Fire	1 (Slight)
Reactivity	0 (Least)
Personal Protection	B