SAFETY DATA SHEET

YELLOW JACKET Vacuum Pump Oil



Lubricants United States

Section 1 - Identification

1.1 Product Identifiers

Product Name

: YELLOW JACKET SuperEvac Vacuum Pump Oil

Product Code(s) : 93091, 93092, 93096, 93191, 93192, 93194

1.4 Supplier Information

Ritchie Engineering Co., Inc. Bloomington, MN 55438

United States

Phone: 800-769-8370

Fax: 952-943-1605

1.2 Product Usage

Recommended Usage : Specialized Usage Lube Oil
Restricted Usage : Not Intended for any other usage

1.3 Emergency Support

Emergency Support: CHEMTREC

United States +1(800) 424-9300 International +01 (703) 527-3887

Section 2 - Composition / Information on Ingredients

2.1 Classification of the Substance or the Mixture

GHS Rating(s) : No Classified Hazards

Signal Word : Not Applicable

2.2 Label Elements

No Classified Hazards.

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Precautionary: **P201** Obtain Special Instructions Before Use.

Storage : P505 Dispose of Container According to Regional Regulations

Disposal : P281 Use Personal Protective Equipment as Required

2.3 Other Hazards

Section 3 - Hazards Identification

3.1 Substance Details

Chemical Name	CAS#	%Weight
LUBRICANT BASE OIL (PETROLEUM)	64742-54-7	100.0

Products containing mineral oil with less than 3% DMSO extract as measured by IP-346.

Section 4	1 _	Firet Ai	id Measures
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4.1 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 atleast 20 minutes. Get

Medical Attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for 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. Maintain an open airway. Get medical attention if symptoms occur.

Ingestion: Wash out mouth with water. If material has been swallowed and the exposed person is

conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. 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 if

symptoms occur.

4.2 Symptoms & Effects

To Physician: Treat symptomatically. Contact poison specialist if product has been ingested.

Specific Treatment : No Specific Treatment.

4.3 Medical Attention

Protection of First Aiders : No action should be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Note To Doctor : Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation

of stomach contents is necessary, use method least likely to cause aspiration.

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Fire Fighting Section 5

Extinguishing Media

Suitable Media **Unsuitable Media**

: CO2, Dry chemical, or Foam. Water can be used to cool and protect product. Do not use water jet as an extinguisher, it will spread the fire.

Specific hazards arising from this product

: When heated, hazardous gases may be released including: sulfur dioxide. A solid stream of water will spread the burning material. Material creates a special hazard because it floats on water. This material creates a special hazard because it floats on water. This material is harmful to aquatic life. Any fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Firefighters Advice

Special protective equipment

: Fire Equipment Information: Fire-fighters should wear appriovirate protective equipment and sel contained breathing apparatus(SCBA) with a full face -piece operated in positive pressure mode.

Section 6 **Accidental Release Measures**

6.1 Personal precautions, protective equipment

General Measures

: No health affects expect from the cleanup of this material if contact can be avoided. Follow personal protect equipment recommendations found in section 8 of this SDS.

6.2 **Environmental Precautions**

Non-Emergency Personnel: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform authorities if the product has caused environmental pollution Water Polluting Material may be harmful to the environment if released in large quantities.

Materials & Methods to Contain and Cleanup

Reference Section 8

: Follow all protective equipment recommendations provided in Section 8.

Spill Control Measures

: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

Containment and Cleanup: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillage's with noncombustible, absorbent material e.g. sand earth vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via licensed waste disposal contractor. Contaminated absorbent material may pose the same threat hazard as the spilled product.

Revised: 5/29/2015

Section 7 - Handling & Storage

7.1 Safe Handling

Personal Protective Equipment

: Put on appropriate personal protective equipment (see section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, keep lid tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

7.2 Safe Storage

Required conditions

: Odorous and toxic fumes may form from the decomposition of this product if stored at temperatures in excess of 113 deg F (45 deg C) for extended periods of time or if heat sources in excess of 250 deg F (121 deg C) are used. Store away from incompatible materials. See section 10 for incompatible materials.

7.3 Specific End Use

Designed Purpose

64742-54-7

: This product is designed for use as a Specialized Usage Lube Oil

Section 8 - Exposure Control

8.1 United States Exposure Limits CAS Chemical Name

Chemical Name

Distillates, petroleum, hydrotreated heavy paraffinic

Exposure Limits Source

IUCLID

5mg/m3

8.2 Exposure Controls

Engineering Controls

: Material should be handled in enclosed vessels and equipment, in which case general room ventilation should be sufficient. Local exhaust ventilation should be used at points where dust, mist, vapors or gases can escape into the room air. No special requirements under ordinary conditions of use and with adequate ventilation.

Enviromental Exposure Controls

: General room ventilation should be satisfactory. Local exhaust ventilation may be necessary if misting is generated.

Hygeine 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 to remove contaminants. Discard contaminated footwear that cannot be cleaned.

Eye / Face Protection

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

Skin / Hand Protection

: Butyl rubber. Use nitrile or neoprene gloves. Use good industrial hygiene practices. In case of skin contact, wash hands and arms with soap and water. Use caution when opening manway covers of storage and transportation containers. 3-nitroaniline crystals may be present on the interior surface of these openings. 3-nitroaniline is toxic by dermal exposure.

Respiratory Protection

: Use a properly fitted air purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this a necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Section 9 - Physical & Chemical Properties

9.1 Information On Basic Physical and Chemical Properties

Physical state : Liquid Color : B&C

Odor : Characteristic of Petroleum

Odor threshold: No Data AvailablepH: No Data AvailableFreezing Point: No Data AvailableBoiling Point / Range: No Data Available

Flash Point COC : 234C

Evaporation rate: : No Data Available
Upper Explosive Limits (% air) : No Data Available
Lower Explosive Limits (% air) : No Data Available
Flammability (solid, gas) : Not Applicable
Vapor pressure : <1 mm Hg

Vapor density (air=1) :> 1

Relative Density : <Field Missing>
Auto-ignition temperature : Not Determined
Decomposition temperature : Not Determined
Solubility in water : Negligible, 0-1%
Partition coefficient, n-octanol/water : No Data Available

Section 10 - Stability & Reactivity

10.1 Material Analysis

Reactivity : No Data Available

Chemical stability : Stable Under Normal Circumstances.

Possibility of hazardous reactions : Hazardous polymerization will not occur.

10.2 Environmental

Conditions to avoid : Temperatures above the high flash point of this combustible material in

combination with sparks, open flames, or other sources of ignition.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition products : Carbon monoxide, Smoke, Carbon monoxide, sulfur oxides, aldehydes, and

other petroleum decomposition products in the case of incomplete combustion. Oxides of nitrogen, phosphorus, calcium, copper, magnesium, sodium, and

hydrogen sulfide may also be present

Section 11 - Toxicological Information

11.1 Toxicological Effects

Ingestion Toxicity : No hazard with normal usage.

Skin Contact: This material is likely to be slightly irritating to skin based on animal data.

Inhalation Toxicity: No data available.

Eye Contact: The material is likely to be irritating to eyes based on animal data.

11.2 Inhalation Toxicity Data
CAS Chemical Name Test Value Species Source

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Section 11 - Toxicological Information Continued

Sensitizer : No data available to indicate product or components may be a skin sensitizer.

: No data available to indicate product or any components present at greater

than 0.1% is mutagenic or genotoxic.

Carcinogenicity: Not expected to cause cancer. This product meets the IP-346 criteria.

Reproductive Toxicity: No data available if components greater than 0.1% may cause birth defects.

Section 12 - Ecological Information

12.1 Aquatic Toxicity

Other adverse effects

Mutagenicity

Persistence and degradability : No Data Available.

Bioaccumulative potential : Bioconcentration may occur. No Data Available.

Mobility in soil: No Data Available.Results of PBT and vPvB assessment: Not Determined.

12.2 LC50 CAS	Toxicity Data Chemical Name	Test	Value	Species	Source
64742-54-7	Distillates, petroleum, hydrotreated heavy paraffinic	LC50	5000.0mg/L 96h	Oncorhynchus	IUCLID

: No Data Available.

12.3 Other	r Toxicity Data Chemical Name	Test	Value	Species	Source
CAS	Chemical Name	1631	v alue	Species	Source
64742-54-7	Distillates, petroleum, hydrotreated heavy paraffinic	EC50	1000.0mg/L 4	l8h Daphnia mag	na IUCLID

Section 13 - Disposal Considerations

13.1 Waste treatment

Waste treatment methods : Dispose of according to Federal, State, Local, or Provincial regulations.

Disposal Methods : Recycle used oil.

Waste Disposal : Use material is non-hazardous according to environmental regulations.

Contaminated packaging : Recycle containers whenever possible!

Section 14 - Transportation Information

14.1 U.S. Department of Transportation (DOT)

14.2. Shipping Description : If shipped by land in a packaging having a capacity of 3,500 gallons or more, the

provisions of 49 CFR, Part 130 apply. (Contains oil) International Maritime

Dangerous Goods (IMDG)

14.2. DOT Compliance Note : U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23 & 25.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable International Civil Aviation Org. / International Air Transport Assoc.

(ICAO/IATA)

14.2. DOT Compliance Requirement: U.S. DOT compliance requirements may apply. See 49 CFR 171.22, 23, 24

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Regulatory Information Section 15

Agency

(TSCA) Toxic

: All components are either listed or not regulated US TSCA Inventory.

Substance Control Act

Inventory Status

64742-54-7

WHMIS Hazard Class : None

Canada CPR : This product has been classified in accordance with the hazard criteria

Controlled Products Regulations (CPR) and the SDS contains all the information

required by the Regulations.

CERCLA Sections

302, 313, 372 This material does not contain reportable chemicals.

311, 312 : Acute Health Hazard No Pressure Hazard No Fire Hazard No

> Chronic Health Hazard No Reactive Hazard No

New Jersey Right to Know

This material does not contain reportable chemicals. (NJ RTK)

Massachusets Right to Know (MA RTK)

This material does not contain reportable chemicals.

Pennsylavania Right to Know (PA RTK)

This material does not contain reportable chemicals.

Rhode Island Right to Know (RI RTK)

This material does not contain reportable chemicals.

Section 16 Other Information

ACGIH American Conference of Governmental Industrial Hygienists

CFR Code of Federal Regulations

DOT United States Department of Transportation

GHS Globally Harmonized System of Classification and Labeling of Chemicals

National Institute for Occupational Safety and Health NIOSH Occupational Safety and Health Administration **OSHA**

PEL Permissible Exposure Limit

RTK Right-to-Know

SARA Short-term Exposure Limit **TSCA Toxic Substances Control Act**

WHMIS Workplace Hazardous Materials Information System

NFPA: HEALTH

FLAMMABILITY

INSTABILITY

SPECIAL

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