# **SAFETY DATA SHEET**

# 1. Identification

**Product identifier** 

Product Name Anti-wear 32 Hydraulic Oil

Recommended use of the chemical and restrictions on use

Recommended use Lubricant

**Restrictions on use**No information available.

# 2. Hazard(s) identification

Classification

Not classified.

Label elements

**Hazard statements** 

Not classified.

### Other information

Harmful to aquatic life with long lasting effects. Harmful to aquatic life.

# 3. Composition/information on ingredients

#### **Substance**

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
2,6-Di-tert-butylphenol	128-39-2	<1	-	-
Mineral oil*	-	<1	-	-
Petroleum distillates, hydrotreated light naphthenic	64742-53-6	<1	-	-

**Chemical Additions** 

## 4. First-aid measures

#### **Description of first aid measures**

**Inhalation** Remove to fresh air.

**Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if

symptoms occur.

**Skin contact** Wash skin with soap and water. Get medical attention if symptoms occur. Wash

contaminated clothing before reuse.

**Ingestion** If large quantities of this material are swallowed, call a physician immediately.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

## 5. Fire-fighting measures

**Suitable Extinguishing Media** Dry chemical, CO2, water spray or regular foam.

Unsuitable extinguishing media Water spray jet.

Specific hazards arising from the

chemical

Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous combustion products Oxides of sulfur. Aldehydes. Ketones and their derivatives. Carbon monoxide. Organic

compounds.

**Explosion data** 

Sensitivity to mechanical impact None.

<sup>\*</sup> The mineral oil contained in this material may be described by one or more of the following CAS Nos.: 64742-54-7, 64742-65-0, 64742-55-8, and 64742-56-9.

Sensitivity to static discharge

None.

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Do not touch damaged containers or spilled material unless wearing appropriate protective

clothing. Keep people away from and upwind of spill/leak. Extremely slippery when spilled. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Deny entry to unauthorized and unprotected personnel.

#### Methods and material for containment and cleaning up

**Methods for containment** Dike far ahead of liquid spill for later disposal.

Methods for cleaning up Take up with sand or other noncombustible absorbent material and place into containers for

later disposal.

## 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation. Use personal protection equipment. Avoid contact with skin, eyes or clothing. Avoid breathing vapors or mists. Wash thoroughly after handling. Do not eat, drink or

smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a cool, well-ventilated place. **Storage Conditions** 

# 8. Exposure controls/personal protection

#### Control parameters

## **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Mineral oil*	TWA: 5 mg/m³ (inhalable	PEL: 5 mg/m³ (mist)	REL: 5 mg/m³ (mist)
-	fraction)	-	STEL: 10 mg/m³ (mist)
Petroleum distillates,	TWA: 5 mg/m³ (inhalable	PEL: 5 mg/m³ (mist)	REL: 5 mg/m³ (mist)
hydrotreated light naphthenic	fraction)		STEL: 10 mg/m³ (mist)
64742-53-6			REL: 350 mg/m <sup>3</sup>
			Ceiling limit: 1,800 mg/m <sup>3</sup>

#### Appropriate engineering controls

Showers **Engineering controls** 

Eyewash stations Ventilation systems.

#### Individual protection measures, such as personal protective equipment

Eye/face protection Goggles.

**Hand protection** Impervious gloves. Protective gloves.

**Skin and body protection** Wear suitable protective clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly

after handling. Avoid breathing vapors or mists. Avoid contact with skin, eyes or clothing.

Take off contaminated clothing and wash before reuse.

## 9. Physical and chemical properties

#### Information on basic physical and chemical properties

**Appearance** 

Physical state
Color
Light amber
Odor
Mild Petroleum

Odor threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pHNo data availableNone knownMelting point / freezing pointNo data availableNone knownBoiling point / boiling rangeNo data availableNone known

**Flash point** 207.2 °C / 405 °F

Evaporation rate No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor pressureNo data availableNone knownVapor densityNo data availableNone known

Relative density
Water solubility
No data available
0.856 (7.12 lb/gal)
Insoluble in water

Solubility(ies) No data available None known No data available Partition coefficient None known **Autoignition temperature** No data available None known None known **Decomposition temperature** No data available @ 40 °C 30 - 34 cSt Kinematic viscosity No data available None known **Dynamic viscosity** 

Other information

Explosive propertiesNo information available.Oxidizing propertiesNo information available.Softening pointNo information availableMolecular weightNo information available

VOC Content (%) Negligible

Liquid Density No information available

Bulk density No information available

# 10. Stability and reactivity

**Reactivity** None under normal use conditions.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

**Conditions to avoid** Extremes of temperature and direct sunlight.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition products None known based on information supplied.

## 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available. Contact with eyes may

cause irritation.

**Skin contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms None known.

**Acute toxicity** 

**Numerical measures of toxicity** 

No information available

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,6-Di-tert-butylphenol	> 5000 mg/kg (Rat)	> 10 g/kg (Rabbit)	
Petroleum distillates, hydrotreated light naphthenic	> 5000 mg/kg (Rat)	> 2000 mg/kg ( Rabbit )	= 2180 mg/m³ (Rat) 4 h

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

**Skin corrosion/irritation**No information available.

Serious eye damage/eye irritation No information available.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

Carcinogenicity The classification listed below for the petroleum distillates in this product pertains to those

that contain more than 3% DMSO extract as measured by IP 346. The petroleum

distillates in this product do not meet that criteria to be classified as carcinogens.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Mineral oil*	A2	Group 1	Known	Х
-				
Petroleum distillates, hydrotreated light naphthenic 64742-53-6	A2	Group 1	Known	X

#### Legend

**ACGIH (American Conference of Governmental Industrial Hygienists)** 

A2 - Suspected Human Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive toxicity No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

**Aspiration hazard** No information available.

# 12. Ecological information

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2,6-Di-tert-butylphenol 128-39-2	-	-	-	EC50: =0.45mg/L (48h, Daphnia magna)
Mineral oil*	-	LC 50: > 100 mg/L (4d, Fathead Minnow)	-	EC 50: > 10,000 mg/L (2d, Water flea (Daphnia magna)) EC 50: > 10 mg/L (21d, Water flea (Daphnia magna)) NOEC: > 10 mg/L (21d, Water flea (Daphnia magna))
Petroleum distillates, hydrotreated light naphthenic 64742-53-6	-	LC50: >5000mg/L (96h, Oncorhynchus mykiss)	-	EC50: >1000mg/L (48h, Daphnia magna)

Persistence and degradability No information available.

**Bioaccumulation** No information available.

**Mobility in soil** No information available.

Other adverse effects No information available.

# 13. Disposal considerations

#### Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## 14. Transport information

**DOT** Not regulated

TDG Not regulated

MEX Not regulated

IATA Not regulated

IMDG Not regulated

## 15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

**TSCA** Contact supplier for inventory compliance status. Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

#### **US 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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (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**