# **O** ENGEN

# SAFETY DATA SHEET

Revision Date : 10.06.2015

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Premium EP 3
Product use : Industrial grease

Supplier : Engen Petroleum Limited (Tel: +27 (0) 21 403 4911, a/h: +27 (0)

21 403 4099)

Health Emergency Telephone : +27 (0) 21 689 5227 (Red Cross Poison Service)

Transport Emergency Telephone : +27 (0) 11 975 1278/83 (Hazchemwise)

Customer Service Centre : 0860 036 436 (Sales and Technical Information)

Engen Website : http://www.engen.co.za/

#### 2. HAZARDS IDENTIFICATION

Emergency response data : Yellowish-brown Semi-solid. Material is combustible. DOT ERG No. - Not

applicable.

#### **GHS Classification:**

Health

Skin irritation Hazard category 3. Repeated exposure may cause skin dryness Warning

or cracking.

Eye irritation Hazard category 2B. Mild irritant. Warning

**Environmental** 

Aquatic toxicity : Hazard category 2. May cause long-term adverse effects in the Warning

aquatic environment.

**Physical** 

Flammability : Non-flammable, combustible material.

## **GHS Labels/Pictograms:**





### **Hazard Statements**

May cause eye and mild skin irritation. Very toxic to fish, aquatic organisms and wildlife.

# **Precautionary Statements**

#### Response

IN CASE OF FIRE: Use carbon dioxide, foam or dry chemical for extinction. IF IN EYES: Rinse cautiously with water for several minutes. IF SWALLOWED: Get medical attention if you feel unwell. IF ON SKIN: If irritation occurs, get medical attention.

#### **Disposal**

Do not discharge into lakes, streams, ponds and ground water supply.

See Section 11 for further health effects/toxicological data.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No.	Weight%
Lithium 12-hydroxystearate	7260-77-7	< 5.00
Zinc Naphthenate	12001-85-3	< 5.00

See Section 8 for Exposure Limits (if applicable).

4. FIRST AID MEASURES

Inhalation : Under certain conditions smoke may be generated. Remove victim from

further exposure.

Skin contact : Wash contact areas with soap and water.

Eye contact : Flush thoroughly with water. If irritation occurs call a doctor.

Ingestion : Not expected to be a problem. However, if discomfort occurs seek

medical attention. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media : Carbon dioxide, foam, dry chemical and water fog.

Special fire fighting

procedure

Water or foam may cause frothing. Use water to keep fire exposed

containers cool. Water spray may be used to flush spills away from exposure. Prevent runoff from fire control or dilution from entering

streams, municipal sewers, or drinking water supply.

Special protective

equipment for firefighters

For fires in enclosed areas, fire fighters must use Self-Contained

Breathing Apparatus.

Products of decomposition : Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other

decomposition products, in the case of incomplete combustion.

Flash Point : > 150 °C (ASTM D-92)

NFPA Hazard Id : Health: 0; Flammability: 1; Reactivity: 0

6. ACCIDENTAL RELEASE MEASURES

Procedure if material is

released or spilled

Report spills/releases as required to appropriate authorities.

Methods for cleaning up : LAND SPILL: Shut off source taking normal safety precautions. Take

measures to minimize the effects on ground water. Recover by shovelling up, or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary,

dispose of absorbed residues as directed in Section 13.

WATER SPILL: Notify port and relevant authorities. Confine with booms if skimming equipment is available to recover the spill for later recycling

or disposal.

Personal precautions : See Section 8.

Environmental precautions : Prevent spill from entering municipal sewers, water sources or low lying

areas. Advise the relevant authorities if contaminations have occurred.

## 7. HANDLING AND STORAGE

Safe handling advice : High pressure injection under the skin may occur due to the rupture of

pressurised lines. (See Section 16 - Injection Injury)

Storage information : Keep containers closed when not in use. Do not store in open or

unlabelled containers. Do not store near heat sources, sparks, flames,

strong oxidizing agents and combustible materials.

Storage and handling

procedures

Prevent small spills and leakages to avoid slip hazard.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

# **Occupational Exposure Limits (OELs)**

Components	CAS-No.	Source	TWA	Valu	ıe	Notations
Base oil package		ACGIH TLV	LTEL	5 mg/m3		Oil mists

LTEL: Long Term Exposure Limits - Time Weight Average (TWA) over 8 hours.

STEL: Short Term Exposure Limits - Time Weight Average (TWA) over 15 Minutes

Note: Limits Shown for guidance only. Follow applicable regulations.

#### Personal Protective Equipment (PPE)

Engineering controls : Use in well ventilated area.

Respiratory protection : No special requirements under ordinary conditions of use and with

adequate ventilation.

Eye protection : If eye contact is likely, normal industrial eye protection practices should

be employed.

Skin and body protection : If prolonged or repeated skin contact is likely wear oil impervious gloves

and clothing. Good personal hygiene practices should always be followed.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Semi-solid.
Colour : Yellowish-brown
Base component : Lithium grease
Odour : Characteristic
Solubility : Immiscible

Flash Point : > 150 °C (ASTM D-92)

Density : < 1 g/cm3 @ 25 °C (ASTM D-4052)

## 10. STABILITY AND REACTIVITY

Stability : Stable.

Conditions to avoid : Extreme heat and high energy sources of ignition, such as sparks and

static electricity.

Materials to avoid : Strong oxidizers.

Hazardous decomposition

products

Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other

decomposition products, in the case of incomplete combustion.

## 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : (Rats): Practically non-toxic (LD50: Greater than 2000 mg/kg). Based

on testing of similar products and/or components. Warning Hazard

category 5. May be harmful if swallowed.

Acute dermal toxicity : (Rabbits): Practically non-toxic (LD50: greater than 2000 mg/kg).

Based on testing of similar products and/or the components. Warning

Hazard category 5. May be harmful in contact with skin.

Acute inhalation toxicity : Not expected to occur in normal industrial use.

Skin irritation : (Rabbits): Mild irritant. (Primary Irritation Index: greater than 0.5 but

less than 3). Based on testing of similar products and/or the

components. Warning Hazard category 3. Causes mild skin irritation.

Eye irritation : (Rabbits): Mild irritant. (Draize score: greater than 6 but 15 or less).

Based on testing of similar products and/or the components. Warning

Hazard category 2B. May cause mild eye irritation.

Respiratory and skin

sensitization

Not expected to be sensitizing based on tests of this product,

components, or similar products.

Germ cell mutagenicity : This product tested negative in a series of mutagenic tests.

Carcinogenicity : Chronic mouse skin painting studies of severely solvent refined mineral

base oils showed no evidence of carcinogenic effects.

Reproductive toxicity

(Teratogenicity)

No teratogenic effects would be expected from dermal exposure, based

on laboratory developmental toxicity studies of major components in this

formulation and/or materials of similar composition.

Specific target organ toxicity:

(STOT) - single exposure

No significant effects expected.

Specific target organ toxicity:

(STOT) - repeated exposure

No significant adverse effects were found in studies using repeated dermal applications of similar formulations to the skin of laboratory animals for 13 weeks at doses significantly higher than those expected during normal industrial exposure. The animals were evaluated extensively for effects of exposure (haematology, serum chemistry, urinalysis, organ weights, microscopic examination of tissues etc.).

Aspiration hazard : No significant effects expected.

## 12. ECOLOGICAL INFORMATION

## **Ecotoxicity effects**

Toxicity to fish : (Salmon) LC/EC50: 8.1 mg/l at 96 hours. Warning Hazard category 2.

Toxicity to aquatic

organisms

(Daphnia magna) LC/EC50: 6 mg/l at 48 hours. (Green algae) LC/EC50: 9.4 mg/l at 8 hours.

# Elimination information (persistence and degradability)

Biodegradability : This product is not readily biodegradable.

Mobility : Not established.

Bioaccumulation : Has the potential to bioaccumulate, however metabolism or physical

properties may reduce the bioconcentration or limit bioavailability.

## Further information on ecology

Remarks : In the absence of specific environmental data for this product, this

assessment is based on information for representative substances.

#### 13. DISPOSAL CONSIDERATIONS

Waste disposal : Product is suitable for burning in an enclosed, controlled burner for fuel

value or disposal by supervised incineration. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at any government approved waste disposal facility. Use of these methods is subject to user compliance with

applicable laws and regulations and considerations of product

characteristics at time of disposal.

Contaminated packaging : Empty containers retain residue (liquid and/or vapour) and can be

dangerous. 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. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental

regulations.

Other regulations : 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 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.

Flash Point : > 150 °C (ASTM D-92)

## 14. TRANSPORT INFORMATION

Note : This product is not regulated by the following: U.S. DOT (CFR), ADR,

IATA and IMDG.

#### 15. REGULATORY INFORMATION

US OSHA Hazard Communication Standard When used for its intended purposes, this product is not classified as

hazardous in accordance with OSHA 29 CFR 1910.1200.

EU Labelling : Product is not dangerous as defined by the European Union Dangerous

Substances/Preparations Directives. EU labelling not required.

**SARA** 

U.S. Superfund

Amendments and Reauthorization Act SARA

Title III

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) Reportable

Hazard Categories

None

### The following product ingredients are cited on the lists below

Chemical name	CAS-No.	Concentration [%]	List Citations
Lithium 12-hydroxystearate	7260-77-7	< 5.00	22

Zinc Naphthenate	12001-85-3	< 5.00	

## **Regulatory List Searched**

1 = ACGIH ALL	6 = IARC 1	11 = TSCA 4	17 = CA P65	22 = MI 293
2 = ACGIH A1	7 = IARC 2A	12 = TSCA 5a2	18 = CA RTK	23 = MN RTK
3 = ACGIH A2	8 = IARC 2B	13 = TSCA 5e	19 = FL RTK	24 = NJ RTK
4 = NTP CARC	9 = OSHA CARC	14 = TSCA 6	20 = IL RTK	25 = PA RTK
5 = NTP SUS	10 = OSHA Z	15 = TSCA 12b	21 = LA RTK	26 = RI RTK

Code Key: CARC = Carcinogen; SUS = Suspected Carcinogen

#### 16. OTHER INFORMATION

Note: Engen products do not contain PCBs.

INJECTION INJURY WARNING: If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a doctor as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.

Note: No significant changes have been made to this Safety Data Sheet since the previous date.

#### **Disclaimer**

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control; all risks of use of the product are therefore assumed by the user and we expressly disclaim all warranties of every kind and nature, including warranties of merchantability and fitness for a particular purpose in respect to the use or suitability of the product. Nothing is intended as a recommendation for uses which infringe valid patents or as extending license under valid patents. Appropriate warnings and safe handling procedures should be provided to handlers and users.

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