ENGEN

Revision Date : 26.07.2019

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Engen Gearlube TDL 75W-90

Product use : Gear Lubricant

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

21 403 4099)

Poisons Information Helpline : 0861 555 777 (South Africa) Spill Response : 086 100 0366 (South Africa)

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

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

#### 2. HAZARDS IDENTIFICATION

**Emergency response data**: Amber Liquid. DOT ERG No. - Not applicable.

**GHS Classification:** 

Health

Skin corrosion/irritation Not classified.

**Environmental** 

Acute toxicity : Not classified. Chronic toxicity : Not classified.

**Physical** 

Flammability : Not classified.

Signal Word : None

## **GHS Labels/Pictograms:**

### **Hazard Statements**

None.

# **Precautionary Statements**

#### **Prevention**

Use personal protective equipment as required.

# Response

IN CASE OF FIRE: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. 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 attention. IF SWALLOWED: Get medical attention if you feel unwell. Do NOT induce vomiting. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breath. Call a POISON CENTRE or doctor if you feel unwell. IF ON SKIN (or hair): Immediately remove all contaminated clothing. Gently wash skin with plenty of soap and water. Launder contaminated clothing before re-use. If skin irritation occurs: Get medical attention.

#### Storage

Store in accordance with local regulations and municipal bylaws.

#### 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%	

The product contains no substances which at their given concentration, are considered to be hazardous to health.

See Section 8 for Exposure Limits (if applicable).

## 4. FIRST AID MEASURES

Inhalation Not expected to be a problem. However, if respiratory irritation occurs :

due to excessive vapour or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical

device or use mouth-to-mouth resuscitation.

Skin contact Remove contaminated clothing. Dry wipe exposed skin and cleanse with

hand cleaner, soap and water. Launder contaminated clothing before

reuse. (See Section 16 - Injection Injury)

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

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

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.

Unusual fire and explosive

hazards

None.

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

decomposition products, in the case of incomplete combustion.

Flash Point > 316 °C Upper Explosion Limit (UEL) 7.0 %(V) Lower Explosion Limit (LEL) 0.9 %(V)

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 pumping using explosion-proof equipment or contain spilled liquid with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of absorbed residues as directed in Section 13.

WATER SPILE: Notify port and relevant authorities. Confine with booms

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

or disposal.

Warn other ships in the vicinity. If allowed by regulatory authorities the use of suitable dispersants should be considered where recommended in

local oil spill procedures.

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 : No special precautions are necessary beyond normal good hygiene

practices.

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	ie	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 : If mists are generated, use ventilation, local exhaust or enclosures to

control below exposure limits.

Respiratory protection : Approved respiratory equipment must be used when mist concentrations

exceed the recommended exposure limits.

Eye protection : If splash with liquid is possible, chemical type goggles should be worn.

Skin and body protection : No special equipment required. However, if frequent splashing or liquid

contact is likely to occur, wear oil impervious gloves and clothing. Good

personal hygiene practices should always be followed.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid. Colour Amber Odour Mild Solubility Negligible > 316 °C Boiling point > 316 °C Flash Point Upper Explosion Limit (UEL) 7.0 %(V) Lower Explosion Limit (LEL) 0.9 %(V) Vapour pressure < 0.1 hPa

Density : 0.857 g/cm3 @ 20 °C (ASTM D-4052)

Pour point : -45 °C

Viscosity, kinematic : 101.7 mm2/s @ 40 °C (ASTM D-4052)

14.00 mm2/s @ 100 °C

### 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.

Fumes, smoke, carbon monoxide, sulphur oxides, aldehydes and other Hazardous decomposition products

decomposition products, in the case of incomplete combustion.

#### 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity** Components

Acute oral toxicity No available data. Acute inhalation toxicity No available data. No available data. Acute dermal toxicity

Skin corrosion/irritation Components

Result No known significant effects or critical hazards.

Eye irritation **Components** 

Result No known significant effects or critical hazards.

Sensitization **Components** 

No known significant effects or critical hazards. Remarks

Germ cell mutagenicity **Components** 

Remarks No known significant effects or critical hazards.

Carcinogenicity **Components** 

Remarks : Not classifiable as a human carcinogen.

Reproductive toxicity (Teratogenicity)

**Components** 

Remarks : No known significant effects or critical hazards.

STOT - single exposure

Components

Remarks : No known significant effects or critical hazards.

Specific target organ toxicity (STOT) - repeated exposure

**Components** 

Remarks : No known significant effects or critical hazards.

Aspiration hazard Components

Remarks : No significant effects expected.

### 12. ECOLOGICAL INFORMATION

## Ecotoxicity effects Components

Acute toxicity : No available data. Chronic toxicity : No available data.

Persistence and degradability Components

Biodegradability : This product is expected to be inherently biodegradable at a slow

to moderate rate.

Bioaccumulation Components

Bioaccumulation : Not established.

#### 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 : > 316 °C

### 14. TRANSPORT INFORMATION

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

IATA and IMDG.

#### 15. REGULATORY INFORMATION

South African Legislation

and Standards

South African OHS Act, 85 of 1993: Hazardous Chemical Substances,

Regulation 9A

National Environmental Management: Waste Act 2008

South African Guidelines

SANS 10234:2008 - Globally Harmonized System of classification &

labelling of chemicals

SANS 11014:2010 - Safety data sheet for chemical products - Content

& order of sections

US OSHA Hazard

Communication Standard

tandard

When used for its intended purposes, this product is not classified as

hazardous in accordance with OSHA 29 CFR 1910.1200.

Governmental Inventory

Status

All components comply with TSCA, EINECS/ELINCS, AICS, METI, DSL,

KECI, ENCS, PICCS and IECSC.

#### 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

## **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.