

Print Date : 03.02.2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Engen Multigrade 20W-50
Product use : Automotive 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 : Hazard Category 3

Environmental

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

Physical

Flammability : Not classified.

<u>Signal Word</u> : Warning

GHS Labels/Pictograms:

Hazard Statements

Causes mild skin irritation.

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%
Zinc alkyldithiophosphate	84605-29-8	<= 3.00

See Section 8 for Exposure Limits (if applicable).

4. FIRST AID MEASURES

Inhalation : Move to well-ventilated area.

Monitor for respiratory distress; administer oxygen and assist

ventilation as required.

Skin contact : Remove all contaminated clothing. Wash area with soap and water for

10 to 15 minutes.

Eye contact : Remove contact lenses and irrigate exposed eyes for at least 15 minutes.

Irrigate before and after removing the lenses to prevent a carry-over of

the substances to the shielded area of the lens.

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

medical attention.

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.

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 : > 210 °C (ASTM D-92)

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 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	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 : 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 : If prolonged or repeated skin contact is likely wear oil impervious gloves

and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Liquid. Colour Amber Odour Mild Solubility Negligible Boiling point > 316 °C

> 210 °C (ASTM D-92) Flash Point

Vapour pressure < 0.1 hPa

0.8812 g/cm3 @ 20 °C (ASTM D-4052) Density

DMSO extractable compounds : < 3% (IP346)

Pour point -21 °C

Viscosity, kinematic 19.50 mm2/s @ 100 °C (ASTM D-445)

169.2 mm2/s @ 40 °C (ASTM D-445)

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 toxicity Components

Zinc alkyldithiophosphate

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

Skin corrosion/irritation

Components

Zinc alkyldithiophosphate

Result Causes skin irritation.

Eye irritation **Components**

Zinc alkyldithiophosphate

Result Causes serious eye damage.

Sensitization **Components**

Zinc alkyldithiophosphate

Remarks This product is not a skin sensitizer.

Germ cell mutagenicity **Components**

Zinc alkyldithiophosphate

Remarks : No known significant effects or critical hazards.

Carcinogenicity Components

Zinc alkyldithiophosphate

Remarks : Not classifiable as a human carcinogen.

Reproductive toxicity Components

Zinc alkyldithiophosphate

Remarks : No known significant effects or critical hazards.

STOT - single exposure

Components

Zinc alkyldithiophosphate

Remarks : No known significant effects or critical hazards.

Specific target organ toxicity (STOT) - repeated exposure

Components

Zinc alkyldithiophosphate

Remarks : No known significant effects or critical hazards.

Aspiration hazard Components

Zinc alkyldithiophosphate

Remarks : No available data.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects Components

Zinc alkyldithiophosphate

Acute toxicity : No available data.

Chronic toxicity : Fish, invertebrates and algae with E(L)C50s <1 mg/L

Persistence and degradability

Components

Zinc alkyldithiophosphate

Biodegradability : This product is not readily biodegradable.

Bioaccumulation Components

Zinc alkyldithiophosphate

Bioaccumulation : Log Kow: 0,56 (Measured)

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

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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

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

characteristics at time of disposal.

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.

Other regulations : This material and any waste emanating from its use must be disposed

via an appropriate method in compliance with the applicable National,

regional and local legislative/ authority requirements.

Flash Point : > 210 °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

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

Other regulations : Globally Harmonized System of Classification and Labelling of Chemicals

(GHS) [GHS (Rev. 7) (2017)]

16. OTHER INFORMATION

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.

Abbreviations That May Have Been Used In This Document:

TLV - Threshold Limit Value	TWA - Time Weighted Average	
LTEL - Long-term Exposure Limit	STEL - Short-term Exposure Limit	
ACGIH - American Conference of Governmental Industrial	CAS - Chemical Abstract Service Number	
Hygienists		

IMO/IMDG - International Maritime Dangerous Goods	SDS – Safety Data Sheet
Code	
SANS – South African National Standards	GHS - Globally Harmonized System of Classification and
	Labelling of Chemicals
STOT – Specific Target Organ Toxicity	OHS Act – Occupational Health and Safety Act
NFPA - National Fire Protection Association (USA)	ECHA - European Chemicals Agency

Sources of key data used to : European Oil Company Organisation for Environment, Health and

compile the Safety Data Sheet Saf

ECHA (https://echa.europa.eu/information-on-chemicals)

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Disclaimer

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