



# Safety Data Sheet

## Differential Oil M 80W-90

Version 1.01

Revision Date 26.06.2023

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

**Product identifier**

**Trade name**

Differential Oil M 80W-90

**Synonyms**

Gear, axle oil

**Relevant identified uses of the substance or mixture and uses advised against**

**Use**

Lubricant or lubricant additive

**Manufacturer or supplier's details**

**Company**

Sasol Oil Pty (Ltd)

**Address**

Sasol Place, 50 Katherine Street  
Sandton  
2090  
South Africa  
+27860335444

**Telephone**

**E-mail address**

sasolchem.info.sa@sasol.com

**Emergency telephone number**

+44 (0)1235 239 670 (Europe, Israel, Africa, Americas)

+44(0)1235 239 671 (Middle East, Arabic African countries)

+65 3158 1074 (Asia Pacific)

+86 10 5100 3039 (China)

+27 (0)17 610 4444 (South Africa)

+61 (2) 8014 4558 (Australia)

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### SECTION 2. Hazards identification

#### Classification of the substance or mixture

##### REGULATION (EC) No 1272/2008

##### Classification

Skin sensitisation	Category 1
Specific target organ toxicity - repeated exposure	Category 2
Hazardous to the aquatic environment - chronic hazard	Category 2

#### Label elements

##### Pictogram



##### Signal word

Warning

##### Hazard statements

H317: May cause an allergic skin reaction.  
H373: May cause damage to organs through prolonged or repeated exposure if swallowed.  
H411: Toxic to aquatic life with long lasting effects.

#### Precautionary statements

##### Prevention

P261: Avoid breathing mist or vapours.  
P272: Contaminated work clothing should not be allowed out of the workplace.

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	P280: Wear protective gloves.
	P273: Avoid release to the environment.
<b>Response</b>	<p>P302 + P352: IF ON SKIN: Wash with plenty of soap and water.</p> <p>P333 + P313: If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P314: Get medical advice/ attention if you feel unwell.</p> <p>P391: Collect spillage.</p>
<b>Storage</b>	No special storage conditions required.
<b>Disposal</b>	P501 Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.
<b>Other hazards</b>	No data available

### SECTION 3. Composition/information on ingredients

#### Mixture

**Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified**

**Contents:** <= 30.40 %W/W

**CAS-No.** 64742-54-7

**Index-No.** 649-467-00-8

**EC-No.** 265-157-1

**Hazard statements** H304

**Distillates (petroleum), hydrotreated light paraffinic; Baseoil - unspecified**

**Contents:** <= 30.40 %W/W

**CAS-No.** 64742-55-8

**Index-No.** 649-468-00-3

**EC-No.** 265-158-7

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**Hazard statements** *H304*

#### Mineral Oil

**Contents:**  $\geq 0.80$  -  $\leq 62.10$  %W/W

**CAS-No.**

**Index-No.**

**EC-No.**

**Hazard statements** *H304*

#### Phosphoric acid esters/amine salt

**Contents:**  $\geq 1.30$  -  $\leq 1.95$  %W/W

**CAS-No.**

**Index-No.**

**EC-No.**

**Hazard statements** *H317 H373 H400 H410*

#### Alkenyl Amine

**Contents:**  $\geq 0.33$  -  $\leq 0.65$  %W/W

**CAS-No.**

**Index-No.**

**EC-No.**

**Hazard statements** *H400 H411*

#### Substituted thiadiazole

**Contents:**  $\geq 0.07$  -  $\leq 0.33$  %W/W

**CAS-No.**

**Index-No.**

**EC-No.**

**Hazard statements** *H317*

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4. First aid measures

### Description of necessary first-aid measures

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<b>Inhalation</b>	Move to fresh air in case of accidental inhalation of vapours. If breathing is irregular or stopped, administer artificial respiration. If breathing is difficult, give oxygen. Get medical attention/advice if you feel unwell.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
<b>Eye contact</b>	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
<b>Ingestion</b>	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Seek immediate medical attention/advice.

### Most important symptoms/effects, acute and delayed

Refer to SECTION 11

## SECTION 5. Firefighting measures

<b>Suitable extinguishing media</b>	Water spray, Foam, CO2, Dry powder.
<b>Special hazards arising from the substance or mixture</b>	Under conditions of continuous exposure to heat, may burn. Under extreme conditions (e.g. confinement) could lead to detonation. Nitrogen oxides (NOx) and carbon oxides are produced during combustion.

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**Special protective equipment for firefighters**

Wear self-contained breathing apparatus and protective suit.

### SECTION 6. Accidental release measures

<b>Personal precautions</b>	Use personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental precautions</b>	Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Disposal and clean up may only be done by authorised personnel.
<b>Reference to other sections</b>	Refer toSection8and13

### SECTION 7. Handling and storage

<b>Safe handling advice</b>	Wear personal protective equipment. Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Ensure adequate ventilation. Keep away from flames and sparks.
<b>Advice on protection against fire and explosion</b>	No data available
<b>Requirements for storage areas and containers</b>	Keep away from heat.Do not store near combustible materials.
<b>Advice on common storage</b>	No data available

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### SECTION 8. Exposure controls/personal protection

#### Components with workplace control parameters

##### NATIONAL OCCUPATIONAL EXPOSURE LIMITS

Contains no substances with occupational exposure limit values.

#### Exposure controls

##### Engineering measures

Ensure adequate ventilation, especially in confined areas.

##### Personal protective equipment

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Gloves suitable for permanent contact:  
Material: butyl-rubber  
Break through time: 4 h  
Material thickness: 0.5 mm

**Eye protection** Safety goggles

**Skin and body protection** lightweight protective clothing

**Hygiene measures** Wash hands before breaks and immediately after handling the product.

### SECTION 9. Physical and chemical properties

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### Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	light brown
Odour	Wood resin
Odour Threshold	No data available
pH	No data available
pourpoint	-24 ° C
Flash point	> 180 ° C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Auto-ignition temperature	> 320 ° C
Lower explosion limit	No data available
Upper explosion limit	No data available
Vapour pressure	No data available
Relative vapour density	No data available
Density	0.895 g/cm <sup>3</sup> ; 20 ° C
Water solubility	emulsifiable
Partition coefficient: n-octanol/water	No data available
Viscosity, kinematic	178.3 mm <sup>2</sup> /s; 40 ° C

### SECTION 10. Stability and reactivity



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<b>Reactivity</b>	Stable under normal conditions.
<b>Chemical stability</b>	No data available
<b>Possibility of hazardous reactions</b>	Strong acids and oxidizing agents
<b>Conditions to avoid</b>	No data available
<b>Materials to avoid</b>	Combustible material
<b>Hazardous decomposition products</b>	Stable under normal conditions.

### SECTION 11. Toxicological information

<b>Acute oral toxicity</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: LD50 Rat: 5,000 mg/kg;
<b>Acute inhalation toxicity</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: LC50 Rat: 4 h; 2.18 - 5.53 mg/l;
<b>Acute dermal toxicity</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: LD50 Rabbit: 2,000 - 5,000 mg/kg;
<b>Repeated dose toxicity</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: Oral Rat; Lowest observed adverse effect level 125 mg/kg

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<b>Repeated dose toxicity</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: Dermal Rat; NOAEL Early embryonic development 30 - 2,000 mg/kg
<b>Repeated dose toxicity</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: Dermal Mouse; NOAEL Early embryonic development 150 mg/kg Lowest observed adverse effect level 100 mg/kg
<b>Repeated dose toxicity</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: Dermal Rabbit; NOAEL Early embryonic development 1,000 mg/kg
<b>Carcinogenicity</b>	Mineral oils are severely solvent refined or hydrotreated.

## SECTION 12. Ecological information

<b>Toxicity to fish</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: 4 d; LL50; 100 mg/l;
<b>Toxicity to daphnia and other aquatic invertebrates</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: No data available
<b>Toxicity to algae</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil - unspecified: No data available
<b>Toxicity to bacteria</b>	Distillates (petroleum), hydrotreated heavy paraffinic; Baseoil -



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unspecified:

No data available

Chemical Oxygen Demand  
(COD)

No data available

### SECTION 13. Disposal considerations

Product

Dispose of in accordance with local regulations.

### SECTION 14. Transport information

ADR

UN number: 3082

Class: 9

Packaging group: III; M6;

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.

RID

UN number: 3082

Class: 9

Packaging group: III; M6



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**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.

**ADNR**

**UN number:** 3082

**Class:** 9

**Packaging group:** III; M6

**Proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,  
N.O.S.

## SECTION 15. Regulatory information

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

#### Canadian Domestic Substances List (DSL)

#### Components Not listed

Mineral Oil  
Phosphoric acid esters/amine salt  
Alkenyl Amine  
Substituted thiadiazole

#### Australian Inv. of Chem. Substances (AICS)

#### Components Not listed

Mineral Oil  
Distillates (petroleum), hydrotreated light paraffinic  
Phosphoric acid esters/amine salt  
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#### New Zealand Inventory of Chemicals (NZIoC)

##### Components Not listed

Mineral Oil  
Phosphoric acid esters/amine salt  
Alkenyl Amine  
Substituted thiadiazole

#### Jap. Inv. of Exist. & New Chemicals (ENCS)

##### Components Not listed

Mineral Oil  
Distillates (petroleum), hydrotreated light paraffinic  
Distillates (petroleum), hydrotreated heavy paraffinic  
Phosphoric acid esters/amine salt  
Alkenyl Amine  
Substituted thiadiazole

#### Japan. Industrial Safety & Health Law (ISHL)

##### Components Not listed

Mineral Oil  
Distillates (petroleum), hydrotreated light paraffinic  
Distillates (petroleum), hydrotreated heavy paraffinic  
Phosphoric acid esters/amine salt  
Alkenyl Amine  
Substituted thiadiazole

#### Korea. Existing Chemicals Inventory (KECI)

##### Components Not listed

Mineral Oil  
Phosphoric acid esters/amine salt  
Alkenyl Amine  
Substituted thiadiazole

#### Philippines Inventory of Chemicals and Chemical Substances (PICCS)

##### Components Not listed

Mineral Oil  
Phosphoric acid esters/amine salt  
Alkenyl Amine

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	Substituted thiadiazole
<b>China Inv. Existing Chemical Substances (IECSC)</b>	<b>Components Not listed</b> Mineral Oil Phosphoric acid esters/amine salt Alkenyl Amine Substituted thiadiazole
<b>Taiwan. Chemical Substances Inventory (TCSI)</b>	<b>Components Not listed</b> Mineral Oil Phosphoric acid esters/amine salt Alkenyl Amine Substituted thiadiazole
<b>USA TSCA Inventory</b>	<b>Components Not listed</b> Mineral Oil Phosphoric acid esters/amine salt Alkenyl Amine Substituted thiadiazole

## SECTION 16. Other information

### Full text of H-Statements

- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure if swallowed.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H411 Toxic to aquatic life with long lasting effects.



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All reasonable efforts were exercised to compile this SDS in accordance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). The SDS only provides information regarding the health, safety and environmental hazards at the date of issue, to facilitate the safe receipt, use and handling of this product in the workplace and does not replace any product information or product specifications. Since Sasol and its subsidiaries cannot anticipate or control all conditions under which this product may be handled, used and received in the workplace, it remains the obligation of each user, receiver or handler to, prior to usage, review this SDS in the context within which this product will be received, handled or used in the workplace. The user, handler or receiver must ensure that the necessary mitigating measures are in place with respect to health and safety. This does not substitute the need or requirement for any relevant risk assessments to be conducted. It further remains the responsibility of the receiver, handler or user to communicate such information to all relevant parties that may be involved in the receipt, use or handling of this product.

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