

Safety Data Sheet

Circulating and Gear Oil 320

Version 1.00

Revision Date 03.08.2023

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

Product identifier

Trade name Circulating and Gear Oil 320

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

Telephone +27860335444

E-mail address sasolchem.info.sa@sasol.com

Emergency telephone number South Africa: 0800 11 28 90; International: +27 17 610 4444

SECTION 2. Hazards identification

Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Classification Skin sensitisation Category 1

Label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

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Precautionary statements

Prevention

P261 Avoid breathing mist or vapours or spray.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P333 + P317 If skin irritation or rash occurs: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

NA: No precautionary statement

Disposal

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3. Composition/information on ingredients

Mixture

Base Oil

Contents: <= 99.40 %W/W

CAS-No.

Index-No.

EC-No.

Hydrocarbons, C10-C13, aromatics, <1% naphthalene

Contents: >= 0.12 - <= 0.16 %W/W

CAS-No.

Index-No.

EC-No.

Hazard statements H304 H411

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N-1-naphthylaniline

Contents: ≥ 0.07 - ≤ 0.11 %W/W

CAS-No. 90-30-2

Index-No.

EC-No. 201-983-0

Hazard statements *H302 H317 H373 H400 H410*

Long-chain alkenyl amide

Contents: ≥ 0.05 - ≤ 0.07 %W/W

CAS-No.

Index-No.

EC-No.

Hazard statements *H315 H361 H413*

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SECTION 4. First aid measures

Description of necessary first-aid measures

Inhalation	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.
Skin contact	Wash off immediately with soap and plenty of water. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists.
Eye contact	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek immediate medical attention/advice.
Ingestion	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

Suitable extinguishing media	Water spray, Foam, CO2, Dry powder.
Special hazards arising from the substance or mixture	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.
Special protective equipment for firefighters	Wear self-contained breathing apparatus and protective suit.

SECTION 6. Accidental release measures

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Personal precautions	Use personal protective equipment. Handle in accordance with good industrial hygiene and safety practice.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Try to prevent the material from entering drains or water courses.
Methods for cleaning up	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.

Reference to other sections Refer to section 8 and 13

SECTION 7. Handling and storage

Safe handling advice	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.
Advice on protection against fire and explosion	No data available.
Requirements for storage areas and containers	Keep away from heat. Do not store near combustible materials.
Advice on common storage	No data available.

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.

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Personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand protection	Gloves suitable for permanent contact.: Material: nitrile rubber/nitrile latex, PVC or other plastic material gloves, Neoprene Break through time: > 8 h Material thickness: 0.35 mm gloves suitable for splash protection: Material: natural rubber/natural latex Break through time: >= 480 min Material thickness: 0.35 mm Unsuitable gloves Material: butyl-rubber
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

Information on basic physical and chemical properties

Form	Liquid
State of matter	Liquid; at 20 ° C; 1,013 hPa
Colour	Brown
Odour	Mild
Odour Threshold	No data available.
Pour point	-6 ° C; ASTM D97
Flash point	260 ° C; ASTM D92
Evaporation rate	No data available.
Flammability (solid, gas)	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.

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Relative vapour density	No data available.
Density	0.89 g/cm ³ ; ASTM D4052
Water solubility	Immiscible, Insoluble
Partition coefficient: n-octanol/water	No data available.
Viscosity, kinematic	320 mm ² /s; ASTM D 445

SECTION 10. Stability and reactivity

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

SECTION 11. Toxicological information

Acute oral toxicity	distillates (petroleum), solvent-refined heavy paraffinic: LD50 Rat: 5,000 mg/kg;
Acute oral toxicity	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified: LD50 Rat: > 2,000 mg/kg;
Acute inhalation toxicity	distillates (petroleum), solvent-refined heavy paraffinic: LC50 Rat: 4 h; vapour: 2.18 - 5.53 mg/l;
Acute dermal toxicity	distillates (petroleum), solvent-refined heavy paraffinic: LD50 Rabbit: 2,000 - 5,000 mg/kg;
Acute dermal toxicity	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified: LD50 Rat: > 2,000 mg/kg;
Eye irritation	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified: May irritate eyes.

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Sensitisation	Distillates (petroleum), solvent-dewaxed light paraffinic; Baseoil - unspecified: Sensitizing;
Repeated dose toxicity	distillates (petroleum), solvent-refined heavy paraffinic: Oral Rat; Lowest observed adverse effect level 125 mg/kg
Repeated dose toxicity	distillates (petroleum), solvent-refined heavy paraffinic: Dermal Rat; NOAEL Early embryonic development 30 - 2,000 mg/kg
Carcinogenicity	Chronic mouse skin painting studies of severely treated oils showed no evidence of carcinogenic effects.

SECTION 12. Ecological information

Other adverse effects	No information on ecology is available.
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SECTION 13. Disposal considerations

Product	Dispose of in accordance with local regulations.
Packaging	Dispose of spent product packaging responsibly and lawfully with due consideration for health, safety and the environment.

SECTION 14. Transport information

Further Information	Not classified as dangerous in the meaning of transport regulations.
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SECTION 15. Regulatory information

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

Canada. DSL - Domestic Substances List,
part of CEPA

Components Not listed

Base Oil

Hydrocarbons, C10-C13, aromatics, <1% naphthalene



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	Long-chain alkenyl amide
Australia. AICS - Australian Inventory of Chemical Substances	Components Not listed Base Oil Hydrocarbons, C10-C13, aromatics, <1% naphthalene Long-chain alkenyl amide
New Zealand Inventory of Chemical Substances	Components Not listed Base Oil Hydrocarbons, C10-C13, aromatics, <1% naphthalene Long-chain alkenyl amide
Japan. ENCS - Existing and New Chemical Substances Inventory	Components Not listed Base Oil Hydrocarbons, C10-C13, aromatics, <1% naphthalene Long-chain alkenyl amide
Japan. Industrial Safety and Health Law - Inventory	Components Not listed Base Oil Hydrocarbons, C10-C13, aromatics, <1% naphthalene Long-chain alkenyl amide
Korea. KECI - Korean Existing Chemicals Inventory	Components Not listed Base Oil Hydrocarbons, C10-C13, aromatics, <1% naphthalene Long-chain alkenyl amide
Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances	Components Not listed Base Oil Hydrocarbons, C10-C13, aromatics, <1% naphthalene Long-chain alkenyl amide
China. IECSC - Inventory of Existing Chemical Substances in China	Components Not listed Base Oil Hydrocarbons, C10-C13, aromatics, <1% naphthalene Long-chain alkenyl amide
Taiwan. Chemical Substances Inventory	Components Not listed



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(TCSI)

Base Oil

Hydrocarbons, C10-C13, aromatics, <1% naphthalene

Long-chain alkenyl amide

USA TSCA Inventory

Components Not listed

Base Oil

Hydrocarbons, C10-C13, aromatics, <1% naphthalene

Long-chain alkenyl amide

SECTION 16. Other information

Full text of H-Statements

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

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.

H413 May cause long lasting harmful effects to aquatic life.

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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