



Safety data sheet according to 1907/2006/EC, Article 31

Printing date 13.07.2015

Version number 10

Revision: 13.07.2015

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

- **1.1 Product identifier**
- **Trade name: Genuine Oil 320**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** Circulation oil
- **1.3 Details of the supplier of the safety data sheet**
- **Supplier:**
Alfa Laval Tumba AB
Hans Stahles väg 7
S-147 80 Tumba
Sweden
+46 8 530 650 00
info.se@alfalaval.com
- **Further information obtainable from:**
For further questions regarding the safety data sheet, please contact your local Alfa Laval Sales Company which you find at www.alfalaval.com or in section 16 "Other Information" in the end of the safety data sheet
- **1.4 Emergency telephone number:**
For immediate, life-threatening emergencies, call 999
For health advice and information (24h) dial 111 (NHS direct).

In Europe: Call 112 and ask for poison information.

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified as hazardous to health or environment according to the CLP regulation.
The product is not classified according to the CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:

Highly refined mineral oil (DMSO <3%, IP 346) * (* Highly refined mineral oil = Group Name: Base oil unspecified CAS / EINECS No: 101316-72-7/309-877-7; 74869-22-0/278-012-2; 64742-62-7/265-166-0; 64742-53-6/265-156-6; 64742-52-5/265-155-0; - DMSO <3% (IP346), or Group Name: gasoil, unspecified 64742-46-7/265-148-2 or Highly refined base oil 8042-47-5/232-455-8; 92045-45-9/295-426-9, fulfills Concawe. substance with a Community workplace exposure limit	50-100%
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· Additional information: For the wording of the listed risk phrases refer to section 16.**SECTION 4: First aid measures****· 4.1 Description of first aid measures****· General information:**

Immediately remove any clothing soiled by the product.

Wash contaminated clothing before reuse.

Call a POISON CENTER/doctor//**if you feel unwell.****· After inhalation:** Supply fresh air; consult doctor if symptoms persists.**· After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.

· After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· After swallowing:

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Rinse the mouth with water.

· 4.2 Most important symptoms and effects, both acute and delayed

High pressure injection under skin: local necrosis.

· 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures**· 5.1 Extinguishing media****· Suitable extinguishing agents:**

Foam

Carbon dioxide

Fire-extinguishing powder

Use fire extinguishing methods suitable to surrounding conditions.

· For safety reasons unsuitable extinguishing agents: Water**· 5.2 Special hazards arising from the substance or mixture**

Formation of toxic gases is possible during heating or in case of fire.

Carbon monoxide (CO)

CO₂

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Aldehyde

Hydrocarbons

• 5.3 Advice for firefighters**• Protective equipment:**

Mouth respiratory protective device.

Do not inhale explosion gases or combustion gases.

• Additional information Cool endangered receptacles with water spray.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

Do not breathe vapour.

• 6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

Inform respective authorities in case of seepage into water course or sewage system.

• 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Send for recovery or disposal in suitable receptacles.

Pick up mechanically.

Dispose of the material collected according to regulations.

• 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling

When using do not eat, drink or smoke.

Do not breathe vapour.

Avoid contact with skin and eyes.

See Section 8 for information on personal protection equipment.

• Information about fire - and explosion protection: Avoid the formation of oil haze.**• 7.2 Conditions for safe storage, including any incompatibilities****• Storage:****• Requirements to be met by storerooms and receptacles:**

Store in a well-ventilated place. Keep container tightly closed.

Keep away from heat and direct sunlight.

Store in a dry place.

• Information about storage in one common storage facility: Store away from foodstuffs.**• Further information about storage conditions:** Store in a cool place.**• 7.3 Specific end use(s)**

Circulation oil

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Professional use only.

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SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

Highly refined mineral oil (DMSO <3%, IP 346) *
 (* Highly refined mineral oil = Group Name: Base oil unspecified CAS / EINECS No: 101316-72-7/309-877-7; 74869-22-0/278-012-2; 64742-62-7/265-166-0; 64742-53-6/265-156-6; 64742-52-5/265-155-0; - DMSO <3% (IP346), or Group Name: gasoil, unspecified 64742-46-7/265-148-2 or Highly refined base oil 8042-47-5/232-455-8; 92045-45-9/295-426-9, fulfills Concawe.

EXPOSURE CONTROLS	Short-term value: 3 mg/m ³ Long-term value: 1 mg/m ³
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- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
 - Use only in well-ventilated areas.
 - Wash hands before breaks and at the end of work.
 - Avoid contact with the eyes and skin.
 - Take off contaminated clothing.
 - Do not carry product impregnated cleaning cloths in trouser pockets.
- **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.
- **Protection of hands:**
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
 - Nitrile rubber, NBR
- **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Wear eye/face protection.
- **Body protection:** Oil resistant protective clothing
- **Limitation and supervision of exposure into the environment**
 - Do not allow to enter sewers/ surface or ground water.
 - Inform respective authorities in case of seepage into water course or sewage system.

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Fluid
Colour:	Light brown
· Odour:	Mineral-oil-like
· Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	Undetermined.
Drip point:	-12 °C

· Flash point: 265 °C (ISO 2592)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature:

Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure at 20 °C: <0.01 kPa

· Density at 20 °C: 0.897 kg/m³ (ISO 12185)

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Insoluble.

· Partition coefficient (n-octanol/water): log Pow >3

· Viscosity:

Dynamic:	Not determined.
Kinematic at 40 °C:	320 mm ² /s

· Solvent content:

Organic solvents: 0.0 %

· 9.2 Other information: No further relevant information available.

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SECTION 10: Stability and reactivity

- **10.1 Reactivity** The material is stable under recommended storage and handling conditions.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid**
Keep away from heat.
Keep ignition sources away - Do not smoke.
- **10.5 Incompatible materials:** Store away from oxidising agents.
- **10.6 Hazardous decomposition products:**
Formation of toxic gases is possible during heating or in case of fire.
Carbon monoxide and carbon dioxide
Hydrocarbons
Aldehyde
No further data; see item 7.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- **Specific symptoms in biological assay:**
101316-72-7 Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated:
Repeated dose toxicity, inhalation: Two solvent-extracted paraffinic mineral base oils were evaluated in 2-week inhalation toxicity studies (Whitman et al., 1989; EBSI, 1991 a,b). The oils spanned a range of 60 – 150 SUS @ 40°C, approximately 12-30 mm²/s). Rats were exposed 6 hours/day to aerosol concentrations of approximately 0, 50, 500, and 1500 mg/m³. There were no mortalities but exposure-related changes were noted in animals from the most highly exposed groups. These changes, including focal infiltrations of inflammatory cells, focal hyperplasia and squamous metaplasia of the nasal mucosa, and accumulations of inflammatory exudates in the lumen of the nasal cavity, were interpreted as the result of a mild irritating process in the nasal mucosa. No other microscopic changes were observed in any other tissues that indicated systemic toxicity from exposure to the lubricant base oils. The NOAELs for pulmonary effects were 500 mg/m³, and the NOAELs for systemic effects resulting from inhalation exposure were >1500 mg/m³.
- **Primary irritant effect:**
- **Skin corrosion/irritation**
Prolonged and / or repeated skin contact combined with poor personal hygiene may cause inflammation of the skin in the form of dermatitis, eczema and oil acne.
Product in use under high pressure that has been forced under the skin, is a serious situation that requires IMMEDIATE hospital treatment.
- **Serious eye damage/irritation** Contact with eyes may result in mild irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Acute effects (acute toxicity, irritation and corrosivity)**
Low acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonia.

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- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** The product is not expected to be harmful to aquatic organisms
- **12.2 Persistence and degradability** The product is not easily, but potentially biodegradable.
- **12.3 Bioaccumulative potential**
Due to the distribution coefficient n-octanol/water an accumulation in organisms is possible.
- **12.4 Mobility in soil** The product is not expected to be mobile in soil.
- **Additional ecological information:**
- **General notes:**
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects**
Spills may form a film on the water surface. This film may cause physical damage to aquatic organisms and reduce oxygen transfer.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Hand over to hazardous waste disposers.
Delivery of waste oil to officially authorised collectors only.

- **European waste catalogue**

13 00 00	OIL WASTES AND WASTES OF LIQUID FUELS (except edible oils, and those in chapters 05, 12 and 19)
13 02 00	waste engine, gear and lubricating oils
13 02 05*	mineral-based non-chlorinated engine, gear and lubricating oils

- **Uncleaned packaging:**
- **Recommendation:**
Disposal must be made according to official regulations.

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Packagings that may not be cleansed are to be disposed of in the same manner as the product.

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SECTION 14: Transport information

- | | |
|--|-----------------|
| · 14.1 UN-Number
· ADR, ADN, IMDG, IATA | Void |
| · 14.2 UN proper shipping name
· ADR, ADN, IMDG, IATA | Void |
| · 14.3 Transport hazard class(es)
· ADR, ADN, IMDG, IATA
· Class | Void |
| · 14.4 Packing group
· ADR, IMDG, IATA | Void |
| · 14.5 Environmental hazards:
· Marine pollutant: | No |
| · 14.6 Special precautions for user | Not applicable. |
| · 14.7 Transport in bulk according to Annex II of
Marpol and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
EU Regulation (EC) no.1907/2006 (REACH)
EU regulation (EC) no 1272/2008 (CLP)
EC DIRECTIVE 2008/98/EC (waste)
TSCA (Toxic Substance Control Act) - All chemical components in this material are included in, or are exceptions from the TSCA listing.
DSL/NDSL - FULFILS
PICCS - FULFILS
ENCS - FULFILS
IECSC - FULFULS
AICS - FULFILS
KECL - FULFILS
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

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This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

LIMITATION OF LIABILITY

This document is only intended to be used as guidance as regards the risks of which we are aware that are associated with the product. Every individual who works with the product or in close proximity of it must receive suitable training. Individuals who come into contact with the product must be capable of using their own judgement as regards conditions or methods for handling, storing and using the product. Alfa Laval is not liable for demands, losses or damage of any kind that arise from flaws or deficiencies in this document or from using, handling, storing or disposing of the product unless it can be proven that Alfa Laval has acted in a grossly negligent manner. Beyond what has been agreed upon and specified in writing with Alfa Laval in the individual case, Alfa Laval makes no promises or assumes any liability, including but not limited to implicit guarantees regarding marketability or appropriateness in terms of both the information provided in this document and the product to which the information refers.

• **Department issuing MSDS:** MACC -Materials & Chemistry Centre

• **Contact:**

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• Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative

• * Data compared to the previous version altered.