

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

Printing date 26.04.2012




Version number 1

Revision: 26.04.2012

**1 Identification of the substance/mixture and of the company/
undertaking**

- **Product identifier**
 - **Trade name:** S20
 - **EC number:**
232-455-8
 - **Index number:**
002-324-55-8
 - **Relevant identified uses of the substance or mixture and uses advised against**
 - **Application of the substance / the preparation**
Testing substance
Basic- and laboratory chemical
Lubricating oil
- **Details of the supplier of the safety data sheet**
 - **Manufacturer/Supplier:**
PAC Walter Herzog GmbH
Badstrasse 3-5
97922 Lauda-Königshofen
Tel: +49 (0)9343.640-0
www.paclp.com
 - **Informing department:**
Tel: +49 (0)9343.640-175
Research & Development
 - **Emergency telephone number:**
Giftnotruf Berlin
Tel. +49 (0)30 30686 790 Helpdesk in German and in English

2 Hazards identification

- **Classification of the substance or mixture**
 - **Classification according to Regulation (EC) No 1272/2008**
 GHS08 health hazard
 Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
 Xn; Harmful
 R65: Harmful: may cause lung damage if swallowed.
- **Label elements**
 - **Labelling according to Regulation (EC) No 1272/2008**
 The substance is classified and labelled according to the CLP regulation.
 - **Hazard pictograms**
 GHS08
 - **Signal word** Danger
 - **Hazard statements**
H304 May be fatal if swallowed and enters airways.

(Contd. on page 2)

Safety data sheet

according to 1907/2006/EC, Article 31

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Version number 1

Revision: 26.04.2012

Trade name: S20

(Contd. from page 1)

- **Precautionary statements**
 - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - P331 Do NOT induce vomiting.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Other hazards**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Substances**
 - **CAS No. Designation:**
Highly refined mineral oil
 - **Identification number(s): ---**
 - **EC number:** 232-455-8
 - **Index number:** 002-324-55-8
 - **Additional information:**
The DMSO-extract of the mineral oil according to IP 346 is below 3%, the oil is not classified as carcinogenic.
 - **Impurities and stabilising additives:**
No impurities > 0,1 % relevant for the classification and labelling of the substance.

4 First aid measures

- **Description of first aid measures**
 - **General information** Instantly remove any clothing soiled by the product.
 - **After inhalation** Supply fresh air; consult doctor in case of symptoms.
 - **After skin contact** Wash with water and soap.
 - **After eye contact**
Keep eye lids open and rinse them amply with clean running water for at least 15 minutes.
 - **After swallowing** Do not induce vomiting; instantly call for medical help.
 - **Information for doctor**
 - **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
 - **Danger**
In case of ingestion or vomiting product may enter the lung.
Aspiration may cause pulmonary oedema and pneumonitis.
 - **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
 - **Suitable extinguishing agents**
Extinguishing powder, foam or water jet. Fight larger fires with water jet or alcohol-resistant foam.
 - **For safety reasons unsuitable extinguishing agents** Water.
- **Special hazards arising from the substance or mixture**
Can be released in case of fire:
Carbon monoxide and carbon dioxide
- **Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.

(Contd. on page 3)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.04.2012

Version number 1

Revision: 26.04.2012

Trade name: S20

(Contd. from page 2)

- **Additional information**

Remove fill mass from incendiary zone, if possible.
Provide for sufficient reservoirs for water for fire fighting.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Keep people at a distance and stay on the windward side.
Particular danger of slipping on leaked/spilled product.

- **Environmental precautions:**

Prevent from spreading (e.g. by damming-in or oil barriers).
Do not allow to enter drainage system, ground/soil and water bodies.
Inform respective authorities in case product reaches water or sewage system.

- **Methods and material for containment and cleaning up:**

Dispose of contaminated material as waste according to item 13.
Absorb with liquid-binding material (sand, diatomite, universal binders) and disposal in suitable containers.

Warning: Slip danger!

- **Reference to other sections**

No dangerous materials are released.
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

7 Handling and storage

- **Handling**

- **Precautions for safe handling** Don't eat, drink or smoke while working.
- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage**

- **Requirements to be met by storerooms and containers:**

Store cool and dry in well sealed containers.
Ensure sufficient ventilation.
Store only in the original container.
Keep container tightly closed and store upright to prevent any run out of product.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:** Protect from heat and direct sunlight.

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:** Not required.

- **CAS No. Designation of material % Type Value Unit**

- **Additional Occupational Exposure Limit Values for possible hazards during processing:**

For oil mist an air limit value of 5,0 mg/m³ is recommended.

- **Additional information:** The lists that were valid during the compilation were used as basis.

- **Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures**

The usual precautionary measures should be adhered to general rules for handling chemicals.
Do not eat or drink while working.

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.04.2012

Version number 1

Revision: 26.04.2012

Trade name: S20

(Contd. from page 3)

- Wash hands during breaks and at the end of the work.
- **Breathing equipment:**
Not necessary if room is well-ventilated.
Use a breathing protection if high concentrations are present.
 - **Protection of hands:**
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
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.
 - **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.
 - **For the permanent contact gloves made of the following materials are suitable:**
Nitrile rubber, NBR
 - **Eye protection:** Tightly sealed safety glasses.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
 - **General Information**
 - **Appearance:**
 - **Form:** Fluid
 - **Colour:** Colourless
 - **Odour:** odourless
 - **Odour threshold:** Not determined.
 - **pH-value:** Not applicable.
 - **Change in condition**
 - **Melting point/Melting range:** Not determined
 - **Boiling point/Boiling range:** Not determined
 - **Flash point:** > 93 °C (DIN ISO 2592)
 - **Inflammability (solid, gaseous)** Not applicable.
 - **Ignition temperature:** 325 °C
 - **Decomposition temperature:** Not determined.
 - **Self-inflammability:** Not determined.
 - **Danger of explosion:** Product is not explosive.
 - **Critical values for explosion:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
 - **Vapour pressure:** Not determined.
 - **Density** Not determined
 - **Evaporation rate** Not determined.
 - **Solubility in / Miscibility with**
 - **Water:** Insoluble
 - **Segregation coefficient (n-octanol/water):** Not determined.

(Contd. on page 5)

Safety data sheet

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Version number 1

Revision: 26.04.2012

Trade name: S20

(Contd. from page 4)

- **Viscosity:**
- **dynamic:** Not determined.
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
 - **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Avoid contact with strong oxidizing agents.
- **Hazardous decomposition products:**
None in case of intended use and storage in compliance with instructions.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
 - **Primary irritant effect:**
 - **on the skin:**
No irritant effect.
Longer or repeated contact with the product reduces the natural readipogenesis of the skin and results in the desiccation of the skin. That product can be absorbed via the skin.
 - **on the eye:** Splashes can cause temporary eye irritation.
 - **Sensitization:** No sensitizing effect known.
 - **Other information (about experimental toxicology):**
The substance has a laxative effect. After swallowing of large amounts: gastrointestinal complaints (diarrhoea).
Overexposure to the inhalation of airborne oil droplets or aerosols may cause irritation of the respiratory tract.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Harmful
Smallest amounts which can get into the lungs by means of swallowing or subsequent vomiting can cause a pulmonary oedema or pneumonia.

12 Ecological information

- **Toxicity**
 - **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** biodegradable
- **Other information:** There are no data available about the preparation.
- **Behaviour in environmental systems:**
 - **Components:**
A product that has flown out can lead to the formation of a film on the water surface which reduces the oxygen exchange and results in the organisms dying-off.
 - **Bioaccumulative potential** Does not accumulate in organisms
 - **Mobility in soil** No further relevant information available.

(Contd. on page 6)

Safety data sheet

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Version number 1

Revision: 26.04.2012

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(Contd. from page 5)

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

The waste code numbers mentioned are recommendations based on the probable use of the product.

- **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 packagings:**

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

14 Transport information

- **UN-Number**

- **ADR, ADN, IMDG, IATA** Void

- **UN proper shipping name**

- **ADR, ADN, IMDG, IATA** Void

- **Transport hazard class(es)**

- **ADR, ADN, IMDG**

- **Class** Void

- **IATA**

- **Class** Void
Not Restricted.

- **Packing group**

- **ADR, IMDG, IATA** Void

- **Environmental hazards:**

- **Marine pollutant:** No

- **Special precautions for user**

Not applicable.

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

- **UN "Model Regulation":**

-

GB

(Contd. on page 7)

Safety data sheet

according to 1907/2006/EC, Article 31

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Revision: 26.04.2012

Trade name: S20

(Contd. from page 6)

15 Regulatory information

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

- **Labelling according to Regulation (EC) No 1272/2008**

The substance is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS08

- **Signal word** Danger

- **Hazard statements**

H304 May be fatal if swallowed and enters airways.

- **Precautionary statements**

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **National regulations**

- **Water hazard class:** Water hazard class 1 (Assessment by list): slightly hazardous for water.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:**

This Material Safety Data Sheet has been drawn up in cooperation with:
DEKRA Industrial GmbH, Hanomagstr. 12, D-30449 Hannover, Germany
Tel.: +49.511.42079-311, reach@dekra.com.

- **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

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 Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)