

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 14.09.2007

Revision: 14.09.2007

### 1 Identification of the substance/preparation and of the company/undertaking

**Product details****Trade name** HALOCARBON 3.0S, 4.2S, 6.3S, 27S, 56S, 95S, 200S, 400S, 700S, 1000NS**Application of the substance / the preparation:** Lubricant**Manufacturer/Supplier:**solvadis chemag gmbh  
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ulrich.kreher@solvadis.com**Emergency information:** +49-(0)-69-57007-100 (Business hours: 09:00-17:00)

### 2 Hazards identification

**Hazard designation:**The product has not been classified and labelled in accordance with  
EC Directives 67/548/EEC**Information pertaining to particular dangers for man and environment**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 3 Composition/information on ingredients

**Chemical characterization:****CAS No. Designation:**

9002-83-9 polychlorotrifluoroethylene

**Additional information:** The S-types contains a proprietary rust inhibitor**Chemical characterization****Additional information** For the wording of the listed risk phrases refer to section 16.

### 4 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** The product is not skin irritating.**After eye contact** Rinse opened eye for several minutes under running water.**After swallowing**

Rinse out mouth and then drink plenty of water.

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Seek medical treatment.

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#### 5 Fire fighting measures

**Suitable extinguishing agents** Use fire fighting measures that suit the environment.

**Special hazards caused by the material, its products of combustion or flue gases:**

Can be released in case of fire:

carbon monoxide (CO)

carbon dioxide (CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen chloride (HCl)

Hydrogen fluoride (HF)

**Protective equipment:** Wear self-contained breathing apparatus.

#### 6 Accidental release measures

**Person-related safety precautions:** Ensure adequate ventilation

**Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.

**Measures for cleaning/collecting:**

Collect mechanically.

Dispose of contaminated material as waste according to chapter 13.

**Additional information:** No dangerous materials are released.

#### 7 Handling and storage

##### Handling

**Information for safe handling:** Ensure good ventilation/exhaustion at the workplace.

**Information about protection against explosions and fires:** The product is not flammable

##### Storage

**Requirements to be met by storerooms and containers:** Store only in the original container.

**Information about storage in one common storage facility:** Not required.

**Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

Protect from heat and direct sunlight.

#### 8 Exposure controls and personal protection

**Additional information about design of technical systems:** No further data; see chapter 7.

**Components with critical values that require monitoring at the workplace:**

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

##### Personal protective equipment

##### General protective and hygienic measures

The usual precautionary measures should be adhered to in handling the chemicals.

Instantly remove any soiled and impregnated garments.

Wash hands during breaks and at the end of the work.

Avoid contact with the eyes and skin.

**Breathing equipment:** Use breathing protection with high concentrations.

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**Protection of hands:**

Protective gloves.

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**

Nitrile rubber, NBR

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.

**Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Tightly sealed safety glasses.**Body protection:** Protective work clothing.

### 9 Physical and chemical properties:

**General Information**

<b>Form:</b>	Oily
<b>Colour:</b>	Colourless
<b>Smell:</b>	Mineraloil-like

**Change in condition****Melting point/Melting range:** Not determined**Boiling point/Boiling range:** Not determined**Flash point:** Not applicable**Self-inflammability:** Product is not selfigniting.**Danger of explosion:** Product is not explosive.**Critical values for explosion:****Lower:** Not applicable**Upper:** Not applicable**Steam pressure at 38°C:** 0.1 mm Hg**Density at 38°C** 1.9 g/cm<sup>3</sup>**Solubility in / Miscibility with****Water:** Insoluble**pH-value:** Not determined**Viscosity:****dynamic:** Not determined

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### 10 Stability and reactivity

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.  
Thermal decomposition above >200°C.

**Dangerous reactions**

Reacts with alkaline metals  
Reacts with light alloys

**Dangerous products of decomposition:**

Hydrogen chloride (HCl)  
Hydrogen fluoride

### 11 Toxicological information

**Acute toxicity:****LD/LC50 values that are relevant for classification:****9002-83-9 polychlorotrifluoroethylene**

Oral LD50	> 9200 mg/kg
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**Primary irritant effect:****on the skin:** No irritant effect.**on the eye:** No irritant effect.**Sensitization:** No sensitizing effect known.**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological information:

**Ecotoxicological effects:****Other information:** Not determined**General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### 13 Disposal considerations

**Product:****Recommendation** Disposal according to official regulations.**European waste catalogue**

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 06 00	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 08	other still bottoms and reaction residues

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

### 14 Transport information

**Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)****ADR/RID Class:** -**Maritime transport IMDG:****IMDG Class:** -**Marine pollutant:** No**Air transport ICAO-TI and IATA-DGR:****ICAO/IATA Class:** -**Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulatory information

**Designation according to EC guidelines:**

Observe the normal safety regulations when handling chemicals

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

**National regulations****Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

### 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:** solvadis chemag gmbh**Contact:**

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