

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 13.01.2010

Revision: 18.12.2009

## 1 Identification of substance

- **Product details**
- **Trade name** *WERA High Performance Screw Releaser (Aerosol)*
- **Application of the substance / the preparation** *Penetrating oil*
- **Manufacturer/Supplier:**  
*WERA WERK  
 Hermann Werner GmbH&Co.KG  
 Korzelter Strasse 21-25  
 D-42349 Wuppertal  
 Germany*
- **Informing department:**  
*Dipl.-Ing. Michael Abel  
 Leiter Produktentwicklung und Produktmanagement  
 Tel.: +49(0)202-4045-277  
 abel@wera.de*
- **Emergency information:** *Giftnotruf Berlin +49(0)30 30686 790 Beratung in Deutsch und Englisch*

## 2 Hazards identification

- **Hazard designation:**  
*F+ Extremely flammable*
- **Information pertaining to particular dangers for man and environment**  
*R 12 Extremely flammable.  
 Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
 Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.*
- **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**
- **Description:** *Active substance with propellant.*

- **Dangerous components:**

|                                    |                                       |                      |         |
|------------------------------------|---------------------------------------|----------------------|---------|
|                                    | Additiv                               | Xn, N; R 21/22-51/53 | < 2.5 % |
|                                    | Fettsäureamin-Salz CAS-Nr.:85068-69-5 | Xi, N; R 36/38-51/53 | < 2.5 % |
|                                    | hydrocarbon                           | Xn; R 65-66          | 50-90%  |
| CAS: 124-38-9<br>EINECS: 204-696-9 | carbon dioxide                        |                      | 2.5-10% |

- **Additional information** *For the wording of the listed risk phrases refer to section 16.*

## 4 First aid measures

- **General information** *No special measures required.*
- **After inhalation** *Supply fresh air; consult doctor in case of symptoms.*
- **After skin contact** *Instantly wash with water and soap and rinse thoroughly.*
- **After eye contact**  
*Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.*
- **After swallowing** *Do not induce vomiting; instantly call for medical help.*

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## 5 Fire fighting measures

- **Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder, waterspray or foam.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:** No special measures required.
- **Measures for cleaning/collecting:** Ensure adequate ventilation.
- **Additional information:** No dangerous materials are released.

## 7 Handling and storage

- **Handling**
- **Information for safe handling:**  
No special measures required.  
Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** Keep breathing equipment ready.
- **Storage**
- **Requirements to be met by storerooms and containers:** Only store in heated containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.

## 8 Exposure controls and personal protection

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

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

### 124-38-9 carbon dioxide

|     |   |
|-----|---|
| WEL | Short-term value: 27400 mg/m <sup>3</sup> , 15000 ppm<br>Long-term value: 9150 mg/m <sup>3</sup> , 5000 ppm |
|-----|---|

- **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.
- **Breathing equipment:** Only during spraying without adequate removal by suction.
- **Protection of hands:** Solvent resistant gloves
- **Material of gloves** Nitrile rubber, NBR
- **Penetration time of glove material** Value for the permeation: Level  $\geq$  480
- **Eye protection:** Not required.

## 9 Physical and chemical properties:

- **General Information**

|                |                                    |
|----------------|------------------------------------|
| <b>Form:</b>   | Aerosol                            |
| <b>Colour:</b> | According to product specification |
| <b>Smell:</b>  | Characteristic                     |

- **Change in condition**

|                                     |                |
|-------------------------------------|----------------|
| <b>Melting point/Melting range:</b> | Not determined |
| <b>Boiling point/Boiling range:</b> | Not determined |

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|  |                                      |
|--|--------------------------------------|
| · <b>Flash point:</b>                            | 66°C (DIN 53 213)                    |
| · <b>Ignition temperature:</b>                   | 230°C                                |
| · <b>Self-inflammability:</b>                    | Product is not selfigniting.         |
| · <b>Danger of explosion:</b>                    | Product is not explosive.            |
| · <b>Critical values for explosion:</b>          |                                      |
| Lower:   | 0.9 Vol %                            |
| Upper:   | 10.6 Vol %                           |
| · <b>Steam pressure at 20°C:</b>                 | 1.3 hPa                              |
| · <b>Density at 20°C</b>                         | 0.821 g/cm <sup>3</sup> (DIN 51 757) |
| · <b>Solubility in / Miscibility with Water:</b> | Not miscible or difficult to mix     |

## 10 Stability and reactivity

- **Conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of composition:** None

## 11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

Benzinkohlenwasserstoff CAS:90622-58-5

|            |          |                           |
|------------|----------|---------------------------|
| Oral       | LD50     | > 10.000 mg/kg (Ratte)    |
| Dermal     | LD50     | > 3.000 mg/kg (Kaninchen) |
| Inhalative | LC50/4 h | > 5.1 mg/l (Ratte)        |

- **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.  
According to our experience and all information available to us the product is not expected to present a health hazard.

## 12 Ecological information:

- **General notes:**  
Water hazard class 2 (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.

## 13 Disposal considerations

- **Product:**
- **Recommendation** Smaller quantities can be disposed with household garbage.

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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-GGVS/E Class:** 2 5F Gases.
- **Kemler Number:** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Label** 2.1
- **Designation of goods:** 1950 AEROSOLS

- **Maritime transport IMDG/GGVSea:**
- **IMDG/GGVSea Class:** 2.1
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Correct technical name:** AEROSOLS

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Correct technical name:** AEROSOLS, flammable

## 15 Regulatory information

- **Designation according to EC guidelines:**  
The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).  
Observe the normal safety regulations when handling chemicals
- **Code letter and hazard designation of product:**  
F+ Extremely flammable
- **Risk phrases:**  
12 Extremely flammable.
- **Safety phrases:**  
2 Keep out of the reach of children.  
23 Do not breathe aerosol.  
51 Use only in well-ventilated areas.  
56 Dispose of this material and its container to hazardous or special waste collection point.
- **Special designation of certain preparations:**  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
- **National regulations**
- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

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**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.*

**· Relevant R-phrases**

21/22 Harmful in contact with skin and if swallowed.

36/38 Irritating to eyes and skin.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

66 Repeated exposure may cause skin dryness or cracking.

**· Contact:** Dipl.-Ing. Michael Abel

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