

# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 10.08.2007

Revision: 02.08.2007

## 1 Identification of substance

- **Product details**

- **Trade name** WERA Edelstahl-Protector (Aerosol)

- **Application of the substance / the preparation** Metal-working product

- **Manufacturer/Supplier:**

WERA WERK

Hermann Werner GmbH&Co.KG

Korzelter Straße 21-25

42349 Wuppertal

- **Informing department:**

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- **Emergency information:**

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## 2 Hazards identification

- **Hazard designation:**

Xi Irritant

F+ Extremely flammable

- **Information pertaining to particular dangers for man and environment**

R 12 Extremely flammable.

R 18 In use, may form flammable/explosive vapour-air mixture.

R 36 Irritating to eyes.

R 67 Vapours may cause drowsiness and dizziness.

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:**

	Isopropylalkohol CAS: 67-63-0	Xi, F; R 11-36-67	10-25%
	Aceton CAS:67-64-1	Xi, F; R 11-36-66-67	< 2.5%
	non-ionic surfactants	Xi; R 41	< 2.5 %
	Fettsäuretensid CAS-Nr.:110-25-8	Xi, N; R 38-41-50/53	< 2.5 %
CAS: 106-97-8 EINECS: 203-448-7	butane	F+; R 12	10-20%
	Benzinkohlenwasserstoff EA CAS: 64742-48-9	Xn; R 10-65-66-67	20-35%
CAS: 74-98-6 EINECS: 200-827-9	propane	F+; R 12	5-10%

- **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

aliphatic hydrocarbons	≥ 30%
non-ionic surfactants, (S)-p-mentha-1,8-diene, (R)-p-mentha-1,8-diene, Parfümöl	< 5%

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

## 4 First aid measures

- **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.

## 5 Fire fighting measures

- **Suitable extinguishing agents** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Protective equipment:** No special measures required.

## 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.
- **Measures for environmental protection:** Do not allow product to get into drains or water courses.
- **Measures for cleaning/collecting:** Use neutralizing agent.

## 7 Handling and storage

- **Handling**
- **Information for safe handling:** Keep away from heat and direct sunlight.
- **Information about protection against explosions and fires:** Keep breathing equipment ready.
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store in cool location.  
Observe official regulations on storing pressurized containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Do not seal container gastight.

## 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:**

### Isopropylalkohol CAS: 67-63-0

WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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### 106-97-8 butane

WEL	Short-term value: 1810 mg/m <sup>3</sup> , 750 ppm Long-term value: 1450 mg/m <sup>3</sup> , 600 ppm Carc (if more than 0.1% of buta-1,3-diene)
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### Aceton CAS:67-64-1

WEL	Short-term value: 3620 mg/m <sup>3</sup> , 1500 ppm Long-term value: 1210 mg/m <sup>3</sup> , 500 ppm
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- **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.

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- Instantly remove any soiled and impregnated garments.  
Avoid contact with the eyes and skin.
- **Breathing equipment:** Use breathing protection in case of insufficient ventilation.
  - **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:** Safety glasses

## 9 Physical and chemical properties:

### · General Information

<b>Form:</b>	Aerosol
<b>Colour:</b>	White
<b>Smell:</b>	Characteristic

### · Change in condition

**Melting point/Melting range:** Not determined

· **Flash point:** Not applicable, as aerosol

· **Ignition temperature:** 270°C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.

### · Critical values for explosion:

<b>Lower:</b>	2.0 Vol %
<b>Upper:</b>	12.0 Vol %

· **Density at 20°C** 0.785 g/cm<sup>3</sup> (DIN 51 757)

### · Solubility in / Miscibility with

**Water:** 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 EA CAS: 64742-48-9**

Oral	LD50	>5000 mg/kg (Ratte)
Dermal	LD50	>3000 mg/kg (Kaninchen)
Inhalative	LC50/4 h	>5 mg/l (Ratte)

### · Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eye:** Irritant effect.
- **Sensitization:** No sensitizing effect known.
- **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:

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Irritant

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## 12 Ecological information:

- **General notes:** Prevent entry of undiluted product or large quantities into sewers and waterways.

## 13 Disposal considerations

- **Product:**
- **Recommendation**  
Smaller quantities can be disposed with household garbage.  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **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:** 23
- **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 has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Code letter and hazard designation of product:**  
Xi Irritant  
F+ Extremely flammable
- **Hazard-determining components of labelling:**  
Benzinkohlenwasserstoff EA CAS: 64742-48-9
- **Risk phrases:**  
12 Extremely flammable.  
18 In use, may form flammable/explosive vapour-air mixture.

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- 36 Irritating to eyes.  
67 Vapours may cause drowsiness and dizziness.

· **Safety phrases:**

- 2 Keep out of the reach of children.  
23 Do not breathe aerosol.  
25 Avoid contact with eyes.  
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**

· **Technical instructions (air):**

Class	Share in %
NK	51.2

- **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.

· **Relevant R-phrases**

- 10 Flammable.  
11 Highly flammable.  
12 Extremely flammable.  
36 Irritating to eyes.  
38 Irritating to skin.  
41 Risk of serious damage to eyes.  
50/53 Very 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.  
67 Vapours may cause drowsiness and dizziness.

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