

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

- **Product details**
- **Trade name:** **4CR 7425 Thermo-Spray silber**
- **Application of the substance / the preparation** Color spray
- **Manufacturer/Supplier:**  
4CR Vertriebsgesellschaft mbH  
Donaustraße 2  
94469 Deggendorf  
Tel.: +49 (0) 4841/665015  
Fax: +49 (0) 4841/665016  
e-Mail: 4cr@b2bmail.eu
- **Information in case of emergency:** +49(0)700 24112112 (MIP)

## 2 Hazards identification

- **Hazard description:**



Xn Harmful  
F+ Extremely flammable

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

R 12 Extremely flammable.

R 20/21 Harmful by inhalation and in contact with skin.

R 36/38 Irritating to eyes and skin.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.

90.1 % by mass of the contents are flammable

Keep out of the reach of children

- **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## 3 Composition/information on ingredients

- **Chemical characterization**

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

- **Dangerous components:**

|                                      |   |         |
|--------------------------------------|---|---------|
| CAS: 67-64-1<br>EINECS: 200-662-2    | acetone<br>☒ Xi, ☒ F; R 11-36-66-67   | 25-50%  |
| CAS: 1330-20-7<br>EINECS: 215-535-7  | xylene<br>☒ Xn, ☒ Xi; R 10-20/21-38   | 10-25%  |
| CAS: 106-97-8<br>EINECS: 203-448-7   | butane<br>☒ F+; R 12  | 10-25%  |
| CAS: 74-98-6<br>EINECS: 200-827-9    | propane<br>☒ F+; R 12   | 2.5-10% |
| CAS: 7429-90-5<br>EINECS: 231-072-3  | aluminium powder (stabilized)/ manufacturer classification<br>☒ F; R 10-15        | 2.5-10% |
| CAS: 64742-48-9<br>EINECS: 265-150-3 | Naphtha (petroleum), hydrotreated heavy, benzene content: < 0,1%<br>☒ Xn; R 65-66 | ≤ 2.5%  |

(Contd. on page 2)

**Trade name: 4CR 7425 Thermo-Spray silber**

(Contd. of page 1)

CAS: 71-36-3

butan-1-ol

EINECS: 200-751-6

☒ Xn, ☒ Xi; R 10-22-37/38-41-67

≤ 2.5%

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

#### 4 First aid measures

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

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

· **After swallowing:** If symptoms persist consult doctor.

#### 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 full jet

· **Protective equipment:**

Mouth respiratory protective device.

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

#### 6 Accidental release measures

· **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

· **Measures for environmental protection:** Do not allow to enter sewers/ surface or ground water.

· **Measures for cleaning/collecting:**

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

#### 7 Handling and storage

· **Handling:**

· **Information for safe handling:**

Keep away from heat and direct sunlight.

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

· **Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

· **Storage:**

· **Requirements to be met by storerooms and receptacles:**

Store in a cool location.

(Contd. on page 3)

**Trade name: 4CR 7425 Thermo-Spray silber**

(Contd. of page 2)

- Observe official regulations on storing packagings with pressurized containers.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
  - Keep container tightly sealed.
  - Do not seal receptacle gas tight.
  - Store in cool, dry conditions in well sealed receptacles.
  - Protect from heat and direct sunlight.
- **Storage class:** 2B

### 8 Exposure controls/personal protection

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

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

#### 67-64-1 acetone

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

#### 1330-20-7 xylene

WEL () Short-term value: 441 mg/m<sup>3</sup>, 100 ppm  
Long-term value: 220 mg/m<sup>3</sup>, 50 ppm  
Sk; BMGV

#### 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)

#### 71-36-3 butan-1-ol

WEL () Short-term value: 154 mg/m<sup>3</sup>, 50 ppm  
Sk

- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:**
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **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**

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.

(Contd. on page 4)

**Trade name: 4CR 7425 Thermo-Spray silber**

(Contd. of page 3)

- **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:**



Tightly sealed goggles

### 9 Physical and chemical properties

#### · General Information

**Form:** Aerosol  
**Colour:** According to product specification  
**Odour:** Characteristic

#### · Change in condition

**Melting point/Melting range:** Undetermined.  
**Boiling point/Boiling range:** -44°C

· **Flash point:** < 0°C (DIN 53213)

· **Ignition temperature:** 365°C (DIN 51794)

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

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

#### · Explosion limits:

**Lower:** 1.1 Vol %  
**Upper:** 13.0 Vol %

· **Vapour pressure at 20°C:** 8300 hPa

· **Density at 20°C:** 0.794 g/cm<sup>3</sup> (DIN 53217)

#### · Solubility in / Miscibility with water:

Not miscible or difficult to mix.

· **Solvent separation test:** < 3 %

#### · Solvent content:

**Organic solvents:** 88.8 %  
**VOC (EC)** 715.4 g/l

· **Solids content (weight-%):** 11.2 %

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known.
- **Dangerous decomposition products:** Carbon monoxide

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(Contd. on page 5)

**Trade name: 4CR 7425 Thermo-Spray silber**

(Contd. of page 4)

### 11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

**1330-20-7 xylene**

Oral LD50 4300 mg/kg (rat)

· **Primary irritant effect:**

· **on the skin:** Irritant to skin and mucous membranes.

· **on the eye:** Irritating effect.

· **Sensitization:** No sensitizing effects known.

· **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

### 12 Ecological information

· **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

· **Product:**

· **Recommendation**

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

· **European waste catalogue**

08 01 11 waste paint and varnish containing organic solvents or other dangerous substances

14 06 03 other solvents and solvent mixtures

15 01 04 metallic packaging

· **Uncleaned packaging:**

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

### 14 Transport information

· **Land transport ADR/RID (cross-border)**



· **ADR/RID class:** 2 5F Gases.

· **Danger code (Kemler):** -

· **UN-Number:** 1950

· **Packaging group:** -

· **Hazard label:** 2.1

(Contd. on page 6)

**Trade name: 4CR 7425 Thermo-Spray silber**

(Contd. of page 5)

· **Description of goods:** 1950 AEROSOLS

· **Maritime transport IMDG:**



· **IMDG Class:** 2.1  
 · **UN Number:** 1950  
 · **Label:** 2.1  
 · **Packaging group:** -  
 · **EMS Number:** F-D,S-U  
 · **Marine pollutant:** No  
 · **Proper shipping name:** AEROSOLS

· **Air transport ICAO-TI and IATA-DGR:**



· **ICAO/IATA Class:** 2.1  
 · **UN/ID Number:** 1950  
 · **Label:** 2.1  
 · **Packaging group:** -  
 · **Proper shipping name:** AEROSOLS, flammable

### 15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· **Code letter and hazard designation of product:**

Xn Harmful  
 F+ Extremely flammable

· **Hazard-determining components of labelling:**

xylene

· **Risk phrases:**

12 Extremely flammable.  
 20/21 Harmful by inhalation and in contact with skin.  
 36/38 Irritating to eyes and skin.

· **Safety phrases:**

2 Keep out of the reach of children.  
 3 Keep in a cool place.  
 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).  
 36/37 Wear suitable protective clothing and gloves.  
 46 If swallowed, seek medical advice immediately and show this container or label.  
 51 Use only in well-ventilated areas.

· **Special labelling 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.  
 90.1 % by mass of the contents are flammable

(Contd. on page 7)



**Trade name: 4CR 7425 Thermo-Spray silber**

(Contd. of page 6)

*Keep out of the reach of children*

· **National regulations:**

· **Information about limitation of use:**

|          |              |    |
|----------|--------------|----|
| 100-41-4 | Ethylbenzene | 3A |
|----------|--------------|----|

| Class | Share in % |
|-------|------------|
| NK    | 50-100     |

### 16 Other information

*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.*

· **Relevant R-phrases**

- 10 Flammable.
- 11 Highly flammable.
- 12 Extremely flammable.
- 15 Contact with water liberates extremely flammable gases.
- 20/21 Harmful by inhalation and in contact with skin.
- 22 Harmful if swallowed.
- 36 Irritating to eyes.
- 37/38 Irritating to respiratory system and skin.
- 38 Irritating to skin.
- 41 Risk of serious damage to eyes.
- 65 Harmful: may cause lung damage if swallowed.
- 66 Repeated exposure may cause skin dryness or cracking.
- 67 Vapours may cause drowsiness and dizziness.

· **Department issuing MSDS:** Laboratory

· **Contact:** Ingo Bolls