



# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

## OPN-Brass Spray

Version number: 5.0  
Revision: 2023-05-25

Date of compilation: 2015-09-23

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

|     |   |   |
|-----|---|---|
| 1.1 | Product identifier  |   |
|     | Trade name  | OPN-Brass Spray   |
|     | Unique formula identifier (UFI)   | WR2N-35T2-Y00M-40A9   |
|     | Other means of identification   |   |
|     | Article number  | 63220   |
|     | Tariff No   | 32082090  |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against |   |
|     | Relevant identified uses  | Industrial use<br>Professional use<br>Paint, coating and lacquer<br>Weather protection                          |
|     | Sector of use   | Weather protection  |
|     | Uses advised against  | Do not use for products which come into contact with foodstuffs.<br>Do not use for private purposes (household) |
| 1.3 | Details of the supplier of the safety data sheet                              |   |
|     | OPN-CHEMIE GmbH<br>In der Au 14<br>57290 Neunkirchen                          |   |
|     | www.opn-chemie.de   |   |
|     | Competent person responsible for the safety data sheet                        | Barbara Angelika Gros-Petri   |
|     | e-mail (competent person)   | baerbel.petri@opn-chemie.de   |
| 1.4 | Emergency telephone number  |   |
|     | Emergency information service   | Poison Information Center Freiburg +49(0)761/19240  |

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture  
Classification according to Regulation (EC) No 1272/2008 (CLP)

| Section | Hazard class  | Hazard class and category | Hazard statement |
|---------|---|---------------------------|------------------|
| 2.3     | Aerosols  | Aerosol 1                 | H222,H229        |
| 3.3     | Serious eye damage/eye irritation   | Eye Irrit. 2              | H319             |
| 3.8R    | Specific target organ toxicity - single exposure (respiratory tract irritation) | STOT SE 3                 | H335             |
| 3.8D    | Specific target organ toxicity - single exposure (narcotic effects, drowsiness) | STOT SE 3                 | H336             |
| 4.1C    | Hazardous to the aquatic environment - chronic hazard                           | Aquatic Chronic 2         | H411             |

| Code   | Supplemental hazard information                      |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking |

#### Remarks

For full text of abbreviations: see SECTION 16  
The most important adverse physicochemical, human health and environmental effects  
Spillage and fire water can cause pollution of watercourses.

- 2.2 Label elements  
Labelling according to Regulation (EC) No 1272/2008 (CLP)

Signal word Danger

#### Pictograms

GHS02, GHS07, GHS09



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### Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

### Precautionary statements

P102 Keep out of reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 Do not spray on an open flame or other ignition source.  
P251 Do not pierce or burn, even after use.  
P261 Avoid breathing spray.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P312 Call a POISON CENTER/doctor if you feel unwell.  
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.  
P501 Dispose of contents / container in accordance with national regulations of the disposal.

### Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.  
Buildup of explosive mixtures possible without sufficient ventilation.

### Hazardous ingredients for labelling

Ethyl acetate  
Hydrocarbons, C9, aromatics

### 2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not relevant (mixture).

### 3.2 Mixtures

Description of the mixture

Mixture of substances listed below with nonhazardous additions

| Name of substance | Identifier   | Wt%       | Classification acc. to GHS                                     | Pictograms  |
|-------------------|--|-----------|--|---|
| Butane            | CAS No<br>106-97-8<br><br>EC No<br>203-448-7<br><br>REACH Reg. No<br>01-2119474691-<br>32-xxxx | 25 – < 50 | Flam. Gas 1A / H220<br>Press. Gas L / H280                     |  |
| Ethyl acetate     | CAS No<br>141-78-6<br><br>EC No<br>205-500-4<br><br>REACH Reg. No<br>01-2119475103-<br>46-xxxx | 25 – < 50 | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319<br>STOT SE 3 / H336 |  |
| Propane           | CAS No<br>74-98-6<br><br>EC No<br>200-827-9<br><br>REACH Reg. No<br>01-2119486944-<br>21-xxxx  | 10 – < 25 | Flam. Gas 1A / H220<br>Press. Gas C / H280                     |  |

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| Name of substance           | Identifier   | Wt%        | Classification acc. to GHS  | Pictograms  |
|-----------------------------|--|------------|---|---|
| Hydrocarbons, C9, aromatics | CAS No<br>64742-95-6<br><br>EC No<br>918-668-5<br><br>REACH Reg. No<br>01-2119455851-<br>35-xxxx | 5 – < 10   | Flam. Liq. 3 / H226<br>STOT SE 3 / H335<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 2 / H411 |    |
| Copper                      | CAS No<br>7440-50-8<br><br>EC No<br>231-159-6<br><br>REACH Reg. No<br>01-2119480154-<br>42-xxxx  | 1 – < 5    | Acute Tox. 4 / H302<br>Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410   |    |
| Isobutane                   | CAS No<br>75-28-5<br><br>EC No<br>200-857-2<br><br>REACH Reg. No<br>01-2119485395-<br>27-xxxx    | 1 – < 5    | Flam. Gas 1A / H220<br>Press. Gas C / H280  |    |
| Zinc                        | CAS No<br>7440-66-6<br><br>EC No<br>231-175-3<br><br>REACH Reg. No<br>01-2119467174-<br>37-xxxx  | 0.25 – < 1 | Aquatic Acute 1 / H400<br>Aquatic Chronic 1 / H410  |  |

| Name of substance | Specific Conc. Limits | M-Factors                | ATE       | Exposure route |
|-------------------|-----------------------|--------------------------|-----------|----------------|
| Copper            | -                     | M-Factor<br>(acute) = 10 | 500 mg/kg | Oral           |

### 3.3 Remarks

For full text of abbreviations: see SECTION 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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- 4.2 Most important symptoms and effects, both acute and delayed  
Narcotic effects.
- 4.3 Indication of any immediate medical attention and special treatment needed  
none

### SECTION 5: Firefighting measures

- 5.1 Extinguishing media  
Suitable extinguishing media  
Water spray. BC-powder.  
Unsuitable extinguishing media  
Water jet.
- 5.2 Special hazards arising from the substance or mixture  
In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.  
Hazardous combustion products  
Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).
- 5.3 Advice for firefighters  
In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
For non-emergency personnel  
Remove persons to safety.  
For emergency responders  
Wear breathing apparatus if exposed to vapours/dust/spray/gases.
- 6.2 Environmental precautions  
Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.
- 6.3 Methods and material for containment and cleaning up  
Advice on how to contain a spill  
Covering of drains.  
Other information relating to spills and releases  
Place in appropriate containers for disposal. Ventilate affected area.
- 6.4 Reference to other sections  
Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling  
Recommendations  
Measures to prevent fire as well as aerosol and dust generation  
Use local and general ventilation. Use only in well-ventilated areas.  
Advice on general occupational hygiene  
Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.
- 7.2 Conditions for safe storage, including any incompatibilities  
Managing of associated risks  
Storage class (LGK)  
2 B
- Flammability hazards  
Do not spray on an open flame or other ignition source. Protect from sunlight.  
Consideration of other advice
  - Packaging compatibilities  
Only packagings which are approved (e.g. acc. to ADR) may be used.

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

### SECTION 8: Exposure controls/personal protection

8.1 Control parameters  
National limit values  
Occupational exposure limit values (Workplace Exposure Limits)  
this information is not available  
Relevant DNELs/DMELs/PNECs and other threshold levels  
Relevant DNELs of components of the mixture

| Relevant DNELs of components of the mixture |            |           |                       |                                    |                   |                            |
|---|------------|-----------|-----------------------|------------------------------------|-------------------|----------------------------|
| Name of substance                           | CAS No     | End-point | Threshold level       | Protection goal, route of exposure | Used in           | Exposure time              |
| Hydrocarbons, C9, aromatics                 | 64742-95-6 | DNEL      | 150 mg/m <sup>3</sup> | Human, inhalatory                  | Worker (industry) | Chronic - systemic effects |
| Hydrocarbons, C9, aromatics                 | 64742-95-6 | DNEL      | 25 mg/kg bw/day       | Human, dermal                      | Worker (industry) | Chronic - systemic effects |
| Copper                                      | 7440-50-8  | DNEL      | 20 mg/m <sup>3</sup>  | Human, inhalatory                  | Worker (industry) | Acute - systemic effects   |
| Copper                                      | 7440-50-8  | DNEL      | 137 mg/kg bw/day      | Human, dermal                      | Worker (industry) | Chronic - systemic effects |
| Copper                                      | 7440-50-8  | DNEL      | 273 mg/kg bw/day      | Human, dermal                      | Worker (industry) | Acute - systemic effects   |

Relevant PNECs of components of the mixture

| Relevant PNECs of components of the mixture |           |           |                 |                       |                              |                              |
|---|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No    | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| Ethyl acetate                               | 141-78-6  | PNEC      | 650 mg/l        | Microorganisms        | Sewage treatment plant (STP) | Short-term (single instance) |
| Ethyl acetate                               | 141-78-6  | PNEC      | 1.65 mg/l       | Aquatic organisms     | Water                        | Intermittent release         |
| Copper                                      | 7440-50-8 | PNEC      | 7.8 µg/l        | Aquatic organisms     | Freshwater                   | Short-term (single instance) |
| Copper                                      | 7440-50-8 | PNEC      | 5.2 µg/l        | Aquatic organisms     | Marine water                 | Short-term (single instance) |
| Copper                                      | 7440-50-8 | PNEC      | 230 µg/l        | Aquatic organisms     | Sewage treatment plant (STP) | Short-term (single instance) |
| Copper                                      | 7440-50-8 | PNEC      | 87 mg/kg        | Aquatic organisms     | Freshwater sediment          | Short-term (single instance) |
| Copper                                      | 7440-50-8 | PNEC      | 676 mg/kg       | Aquatic organisms     | Marine sediment              | Short-term (single instance) |
| Copper                                      | 7440-50-8 | PNEC      | 65 mg/kg        | Terrestrial organisms | Soil                         | Short-term (single instance) |
| Zinc  | 7440-66-6 | PNEC      | 100 µg/l        | Microorganisms        | Sewage treatment plant (STP) | Short-term (single instance) |
| Zinc  | 7440-66-6 | PNEC      | 14.4 µg/l       | Aquatic organisms     | Freshwater                   | Short-term (single instance) |
| Zinc  | 7440-66-6 | PNEC      | 7.2 µg/l        | Aquatic organisms     | Marine water                 | Short-term (single instance) |

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| Relevant PNECs of components of the mixture |           |           |                 |                       |                              |                              |
|---|-----------|-----------|-----------------|-----------------------|------------------------------|------------------------------|
| Name of substance                           | CAS No    | End-point | Threshold level | Organism              | Environmental compartment    | Exposure time                |
| Zinc  | 7440-66-6 | PNEC      | 100 µg/l        | Aquatic organisms     | Sewage treatment plant (STP) | Short-term (single instance) |
| Zinc  | 7440-66-6 | PNEC      | 146.9 mg/kg     | Aquatic organisms     | Freshwater sediment          | Short-term (single instance) |
| Zinc  | 7440-66-6 | PNEC      | 162.2 mg/kg     | Aquatic organisms     | Marine sediment              | Short-term (single instance) |
| Zinc  | 7440-66-6 | PNEC      | 83.1 mg/kg      | Terrestrial organisms | Soil                         | Short-term (single instance) |

- 8.2 Exposure controls  
Appropriate engineering controls  
General ventilation.  
Individual protection measures (personal protective equipment)  
Eye/face protection  
Do not spray in eyes. If required use tight-fitting goggles.  
Skin protection  
Hand protection  
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.  
Type of material  
NBR: acrylonitrile-butadiene rubber.  
Material thickness  
> 0,7 mm  
Breakthrough times of the glove material  
>480 minutes (permeation: level 6)  
Other protection measures  
Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.  
Respiratory protection  
Operate if possible out of doors or in a well-ventilated place. In case of inadequate ventilation wear respiratory protection. Type: A-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).  
Environmental exposure controls  
Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- |   |   |
|---|---|
| Physical state                          | Aerosol (Spray aerosol)                           |
| Colour                                  | Gold  |
| Odour                                   | Solvent like                                      |
| Initial boiling point and boiling range | Not applicable, as aerosol.*                      |
| Flammability (solid, gas)               | flammable aerosol in accordance with GHS criteria |
| Explosive limits                        | 2.2 vol% - 15 vol%                                |
| Flash point                             | Not applicable, as aerosol.*                      |
| Water solubility                        | Insoluble   |
| Vapour pressure                         | 3.8 bar at 20 °C<br>6.8 bar at 50 °C              |
| Density                                 | 0.71 g/ml at 20 °C                                |
- 9.2 Other information  
Other safety characteristics

\* The finished mixture in an aerosol container is formed after addition of propellant. Several details are not measurable in an hermetic closed, pressurized container.

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### SECTION 10: Stability and reactivity

- 10.1 Reactivity  
Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s). Risk of ignition.
- 10.2 Chemical stability  
See below "Conditions to avoid".
- 10.3 Possibility of hazardous reactions  
No known hazardous reactions.
- 10.4 Conditions to avoid  
Do not spray on an open flame or other ignition source. Keep away from heat.  
Hints to prevent fire or explosion  
Protect from sunlight.  
Physical stresses which might result in a hazardous situation and have to be avoided  
High temperatures.
- 10.5 Incompatible materials  
Oxidisers.
- 10.6 Hazardous decomposition products  
Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008  
Test data are not available for the complete mixture.  
Classification procedure  
The method for classification of the mixture is based on ingredients of the mixture (additivity formula).  
Classification according to GHS (1272/2008/EC, CLP)  
Acute toxicity  
Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture

| Name of substance | CAS No    | Exposure route | ATE       |
|-------------------|-----------|----------------|-----------|
| Copper            | 7440-50-8 | Oral           | 500 mg/kg |

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

• Specific target organ toxicity - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

• Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

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### 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxic to aquatic life with long lasting effects.

Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water) (AWSV): WGK (Germany) 2, obviously hazardous to water

| Aquatic toxicity (chronic) of components of the mixture |            |          |            |                       |               |
|---|------------|----------|------------|-----------------------|---------------|
| Name of substance                                       | CAS No     | Endpoint | Value      | Species               | Exposure time |
| Ethyl acetate   | 141-78-6   | EC50     | 2,306 mg/l | Aquatic invertebrates | 24 h          |
| Hydrocarbons, C9, aromatics                             | 64742-95-6 | EL50     | 4.1 mg/l   | Aquatic invertebrates | 24 h          |
| Hydrocarbons, C9, aromatics                             | 64742-95-6 | EC50     | >99 mg/l   | Microorganisms        | 10 min        |
| Zinc  | 7440-66-6  | LC50     | 330 µg/l   | Fish                  | 95 h          |
| Zinc  | 7440-66-6  | EC50     | 75 µg/l    | Fish                  | 28 d          |
| Zinc  | 7440-66-6  | EbC50    | 6,813 µg/l | Aquatic invertebrates | 21 d          |
| Zinc  | 7440-66-6  | ErC50    | 410 µg/l   | Algae                 | 10 d          |

### 12.2 Persistence and degradability

| Degradability of components of the mixture |            |                  |                  |      |        |        |
|--|------------|------------------|------------------|------|--------|--------|
| Name of substance                          | CAS No     | Process          | Degradation rate | Time | Method | Source |
| Ethyl acetate                              | 141-78-6   | Oxygen depletion | 62 %             | 5 d  |        |        |
| Hydrocarbons, C9, aromatics                | 64742-95-6 | Oxygen depletion | 30.9 %           | 2 d  |        | ECHA   |

### 12.3 Bioaccumulative potential

| Bioaccumulative potential of components of the mixture |           |       |                           |          |
|--|-----------|-------|---------------------------|----------|
| Name of substance                                      | CAS No    | BCF   | Log KOW                   | BOD5/COD |
| Butane   | 106-97-8  |       | 1.09 (pH value: 7, 20 °C) |          |
| Ethyl acetate  | 141-78-6  | 30    | 0.68 (pH value: 7, 25 °C) |          |
| Propane  | 74-98-6   |       | 1.09 (pH value: 7, 20 °C) |          |
| Isobutane  | 75-28-5   |       | 1.09 (pH value: 7, 20 °C) |          |
| Zinc   | 7440-66-6 | 69.48 |                           |          |

### 12.4 Mobility in soil

Data are not available.

### 12.5 Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq 0,1\%$ .

### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\geq 0,1\%$ .

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12.7 Other adverse effects  
Data are not available.

### SECTION 13: Disposal considerations

13.1 Waste treatment methods  
Sewage disposal-relevant information  
Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.  
Waste treatment of containers/packagings  
It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.  
Relevant provisions relating to waste  
List of wastes  
15 01 04 Metallic packaging  
15 01 10 Packaging containing residues of or contaminated by dangerous substances  
16 05 04 Containing hazardous gases in pressure containers (including halons)  
Remarks  
Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### SECTION 14: Transport information

|      |  |                                      |
|------|--|--------------------------------------|
| 14.1 | UN number or ID number   |                                      |
|      | ADR/RID/ADN  | UN<br>1950                           |
|      | IMDG-Code  | UN<br>1950                           |
|      | ICAO-TI  | UN<br>1950                           |
| 14.2 | UN proper shipping name  |                                      |
|      | ADR/RID/ADN  | AEROSOLS                             |
|      | IMDG-Code  | AEROSOLS                             |
|      | ICAO-TI  | Aerosols, flammable                  |
| 14.3 | Transport hazard class(es)   |                                      |
|      | ADR/RID/ADN  | 2<br>(2.1)                           |
|      | IMDG-Code  | 2.1                                  |
|      | ICAO-TI  | 2.1                                  |
| 14.4 | Packing group  | Not assigned                         |
| 14.5 | Environmental hazards  | Hazardous to the aquatic environment |
| 14.6 | Special precautions for user   |                                      |
|      | Provisions for dangerous goods (ADR) should be complied within the premises. |                                      |
| 14.7 | Maritime transport in bulk according to IMO instruments                      |                                      |
|      | The cargo is not intended to be carried in bulk.                             |                                      |

#### Information for each of the UN Model Regulations

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) Additional information

|                     |                      |
|---------------------|----------------------|
| Classification code | 5F                   |
| Danger label(s)     | 2.1<br>Fish and tree |



|                               |  |
|-------------------------------|--|
| Environmental hazards         | Yes (hazardous to the aquatic environment) |
| Special provisions (SP)       | 190, 327, 344, 625                         |
| Excepted quantities (EQ)      | E0   |
| Limited quantities (LQ)       | 1 L  |
| Transport category (TC)       | 2  |
| Tunnel restriction code (TRC) | D  |

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International Maritime Dangerous Goods Code (IMDG) Additional information  
Marine pollutant Yes (hazardous to the aquatic environment)  
Danger label(s) 2.1  
Fish and tree



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 1 L  
EmS F-D, S-U  
Stowage category -

International Civil Aviation Organization (ICAO-IATA/DGR) Additional information  
Environmental hazards Yes (hazardous to the aquatic environment)  
Danger label(s) 2.1



Special provisions (SP) A145, A167  
Excepted quantities (EQ) E0  
Limited quantities (LQ) 30 kg

### SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list

none of the ingredients are listed

Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol Extremely flammable

Labelling

Pressurized container: may burst if heated. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.

Additional information

-

Deco-Paint Directive

VOC content

87.5 %

621.2 g/l

The maximum content of VOC of the product in a ready to use condition

| Maximum VOC content limit    |                     |           |      |         |
|------------------------------|---------------------|-----------|------|---------|
| Product category             | Product subcategory | Coating   | Type | VOC g/l |
| Vehicle refinishing products | Special finishes    | All types |      | 840     |

Industrial Emissions Directive (IED)

VOC content

87.5 %

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

| Pollutant release and transfer registers (PRTR) |           |         |   |
|---|-----------|---------|---|
| Name of substance                               | CAS No    | Remarks | Threshold for releases to air (kg/year) |
| Zinc  | 7440-66-6 | (8)     | 200                                     |

Legend

(8) All metals shall be reported as the total mass of the element in all chemical forms present in the release

# Safety Data Sheet

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Water Framework Directive (WFD)  
none of the ingredients are listed  
Regulation on persistent organic pollutants (POP)  
None of the ingredients are listed.  
National regulations (Germany)  
Ordinance on systems for handling water-polluting substances (Ordinance on facilities for handling substances hazardous to water)(AwSV)  
Water hazard class 2 (obviously hazardous to water)  
Technical instructions on air quality control (Germany)

| Number | Group of substances | Class | Conc.    | Mass flow | Mass concentration   | Notation |
|--------|---------------------|-------|----------|-----------|----------------------|----------|
| 5.2.5  | Organic substances  |       | ≥ 25 wt% | 0.5 kg/h  | 50 mg/m <sup>3</sup> | 3)       |

Notation

3) A total mass flow of 0.50 kg/h or a total mass concentration of 50 mg/m<sup>3</sup>, each of which to be indicated as total carbon, shall not be exceeded (except organic particulate matter)

Storage of hazardous substances in non-stationary containers (TRGS 510) (Germany)

Storage class (LGK) 2 B (Aerosol dispensers and lighters)

National inventories

| Country | Inventory  | Status                         |
|---------|------------|--------------------------------|
| EU      | REACH Reg. | Not all ingredients are listed |

Legend

REACH Reg. REACH registered substances

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

Alignment to regulation. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU

Restructuring: Section 2, section 9, section 14

Insertion: UFI: WR2N-35T2-Y00M-40A9

16.2 Abbreviations and acronyms

|                 |  |
|-----------------|--|
| Acute Tox.      | Acute toxicity.  |
| ADN             | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways). |
| ADR             | Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road).   |
| ADR/RID/ADN     | Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN).   |
| Aquatic Acute   | Hazardous to the aquatic environment - acute hazard.   |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard.   |
| Asp. Tox.       | Aspiration hazard.   |
| ATE             | Acute Toxicity Estimate.   |
| BCF             | Bioconcentration factor.   |
| BOD             | Biochemical Oxygen Demand.   |
| CAS             | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances).  |
| CLP             | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  |
| COD             | Chemical oxygen demand.  |
| DGR             | Dangerous Goods Regulations (see IATA/DGR).  |
| DMEL            | Derived Minimal Effect Level.  |
| DNEL            | Derived No-Effect Level.   |
| EbC50           | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control.  |
| EC50            | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval.                                      |
| EC No           | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union).                                     |
| EINECS          | European Inventory of Existing Commercial Chemical Substances.   |
| EL50            | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms.  |

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|            |   |
|------------|---|
| ELINCS     | European List of Notified Chemical Substances.  |
| EmS        | Emergency Schedule.   |
| ErC50      | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control.   |
| Eye Dam.   | Seriously damaging to the eye.  |
| Eye Irrit. | Irritant to the eye.  |
| Flam. Gas  | Flammable gas.  |
| Flam. Liq. | Flammable liquid.   |
| GHS        | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations.  |
| IATA       | International Air Transport Association.  |
| IATA/DGR   | Dangerous Goods Regulations (DGR) for the air transport (IATA).   |
| ICAO       | International Civil Aviation Organization.  |
| ICAO-TI    | Technical instructions for the safe transport of dangerous goods by air.  |
| IMDG       | International Maritime Dangerous Goods Code.  |
| IMDG-Code  | International Maritime Dangerous Goods Code.  |
| LC50       | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval.  |
| LGK        | Lagerklasse (storage class according to TRGS 510, Germany).   |
| Log KOW    | n-Octanol/water.  |
| M-Factor   | Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present. |
| NLP        | No-Longer Polymer.  |
| PBT        | Persistent, Bioaccumulative and Toxic.  |
| PNEC       | Predicted No-Effect Concentration.  |
| Press. Gas | Gas under pressure.   |
| REACH      | Registration, Evaluation, Authorisation and Restriction of Chemicals.   |
| RID        | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail).  |
| STOT SE    | Specific target organ toxicity - single exposure.   |
| SVHC       | Substance of Very High Concern.   |
| TRGS       | Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany).   |
| VOC        | Volatile Organic Compounds.   |
| VPvB       | Very Persistent and very Bioaccumulative.   |

### 16.3 Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.  
Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN).  
International Maritime Dangerous Goods Code (IMDG).  
Dangerous Goods Regulations (DGR) for the air transport (IATA).

### 16.4 Classification procedure

Physical and chemical properties. The classification is based on tested mixture.  
Health hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

### 16.5 List of relevant phrases (code and full text as stated in section 2 and 3)

|      |   |
|------|---|
| H220 | Extremely flammable gas.                              |
| H222 | Extremely flammable aerosol.                          |
| H225 | Highly flammable liquid and vapour.                   |
| H226 | Flammable liquid and vapour.                          |
| H229 | Pressurised container: May burst if heated.           |
| H280 | Contains gas under pressure; may explode if heated.   |
| H302 | Harmful if swallowed.                                 |
| H304 | May be fatal if swallowed and enters airways.         |
| H319 | Causes serious eye irritation.                        |
| H335 | May cause respiratory irritation.                     |
| H336 | May cause drowsiness or dizziness.                    |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects.      |

### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.