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# A-U-48S 0,4L 0,4L Metal can

| Version | Revision Date: | SDS Number: | Date of last issue: 07.06.2025 |
|---|---|---|---|
| 3.0 | 13.10.2025 | 000000000050736268 | Date of first issue: 09.08.2024 |

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

### 1.1 Product identifier

Trade name : A-U-48S 0,4L 0,4L Metal can

Product code : 000000000050736268

Unique Formula Identifier (UFI) : 9FC4-34DD-300J-G2AC

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : Spraying
Coatings and related products

### 1.3 Details of the supplier of the safety data sheet

**Company:**
BASF Coatings GmbH
Postfach 6123
48136 Münster
Deutschland

**Contact address:**
BASF plc
4th and 5th Floors, 2 Stockport Exchange
Railway Road, Stockport, SK1 3GG
United Kingdom

Telephone: +44 161 475 3000
E-mail address: product-safety-uk-and-ireland@basf.com

### 1.4 Emergency telephone

International emergency number:
Telephone: +49 180 2273-112

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

| | |
|---|---|
| Aerosols, Category 1 | H222: Extremely flammable aerosol.<br>H229: Pressurised container: May burst if heated. |
| Skin irritation, Category 2 | H315: Causes skin irritation. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |

| | |
|---|---|
| Skin sensitization, Category 1 | H317: May cause an allergic skin reaction. |
| Specific target organ toxicity - single exposure, Category 3, Central nervous system | H336: May cause drowsiness or dizziness. |
| Long-term (chronic) aquatic hazard, Category 2 | H411: Toxic to aquatic life with long lasting effects. |

**2.2 Label elements**

**Labeling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms :

Signal Word : Danger

Hazard Statements :

| | |
|---|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

Precautionary Statements :

**Prevention:**

| | |
|---|---|
| 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. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves/ eye protection/ face protection. |

**Response:**

| | |
|---|---|
| P305 + P351 + P338 + P310 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. |
| P391 | Collect spillage. |

**Storage:**

| | |
|---|---|
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. |

Hazardous ingredients which must be listed on the label:

acetone
n-butanol
phosphoric acid
bisphenol A-epichlorohydrin resin

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Container is under pressure. Protect from sun and temperatures above 50 °C. Do not open with force or incinerate even after use. Do not spray into flames or onto glowing objects.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : epoxy resin
organic solvent
pigment
inorganic acids

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|
| acetone | 67-64-1<br>200-662-2<br>606-001-00-8<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336 (Central nervous system) | >= 20 - < 25 |
| n-Butyl acetate | 123-86-4<br>204-658-1<br>607-025-00-1<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | Flam. Liq. 3; H226<br>STOT SE 3; H336 (Central nervous system) | >= 10 - < 12.5 |
| n-butanol | 71-36-3<br>200-751-6<br>603-004-00-6 | Flam. Liq. 3; H226<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318 | >= 5 - < 7 |

| | | | |
|---|---|---|---|
| | UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | STOT SE 3; H335 (Respiratory system)<br>STOT SE 3; H336 (Central nervous system) | |
| phosphoric acid | 7664-38-2<br>231-633-2<br>015-011-00-6<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | Met. Corr. 1; H290<br>Acute Tox. 4; H302<br>Skin Corr. 1B; H314<br>Eye Dam. 1; H318<br>———————<br>specific concentration limit<br>Skin Corr. 1B; H314<br>>= 25 %<br>Skin Irrit. 2; H315<br>10 - < 25 %<br>Eye Irrit. 2; H319<br>10 - < 25 % | >= 3 - < 5 |
| xylene | 1330-20-7<br>215-535-7<br>601-022-00-9<br>UK-20-2749242067-7-0000<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335 (Respiratory system)<br>STOT RE 2; H373 (Kidney, Liver, Central nervous system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412 | >= 3 - < 5 |
| zinc oxide | 1314-13-2<br>215-222-5<br>030-013-00-7<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410 | >= 2.5 - < 3 |
| zinc phosphate | 7779-90-0<br>231-944-3 | Aquatic Acute 1; H400 | >= 2.5 - < 3 |

| | | | |
|---|---|---|---|
| | 030-011-00-6<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | Aquatic Chronic 1; H410<br>_____<br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1 | |
| bisphenol A-epichlorohydrin resin | 25068-38-6<br>500-033-5<br>603-074-00-8<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317 | >= 2 - < 2.5 |
| propan-2-ol | 67-63-0<br>200-661-7<br>603-117-00-0<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE 3; H336 (Central nervous system) | >= 1 - < 2 |
| 1-methoxy-2-propylacetate | 108-65-6<br>203-603-9<br>607-195-00-7<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000<br>UK-20-9642318150-0-0000 | Flam. Liq. 3; H226<br>STOT SE 3; H336 (Central nervous system) | >= 1 - < 2 |
| ethylbenzene | 100-41-4<br>202-849-4<br>601-023-00-4<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000 | Flam. Liq. 2; H225<br>Acute Tox. 4; H332<br>STOT RE 2; H373 (Auditory system)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412 | >= 1 - < 2 |
| Substances with a workplace exposure limit : | | | |
| dimethyl ether | 115-10-6<br>204-065-8<br>603-019-00-8<br>UK-20-9702550300-0-0000<br>UK-20-0537843089-5-0000 | Flam. Gas 1A; H220<br>Press. Gas Liquefied gas; H280 | >= 25 - < 50 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

General advice : First aid personnel should pay attention to their own safety.
If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position).
Immediately remove contaminated clothing.
In all cases of doubt, or when symptoms persist, seek medical attention.
Move out of dangerous area.
Never give anything by mouth to an unconscious person.

If inhaled : If breathed in, move person into fresh air.
If breathing is irregular or stopped, administer artificial respiration.
If symptoms persist, call a physician.

In case of skin contact : If symptoms persist, call a physician.
Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Do NOT use solvents or thinners.

In case of eye contact : If easy to do, remove contact lens, if worn.
Call a physician immediately.
Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed : Rinse mouth with water.
Do not induce vomiting due to aspiration hazard.
Keep at rest.
If swallowed, call a poison control center or doctor immediately.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11.

Risks : Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.

May cause drowsiness or dizziness.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : No known specific antidote.
Treat symptomatically.

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

Suitable extinguishing media : Water spray jet

Dry powder

Alcohol-resistant foam

Carbon dioxide ($CO_2$)

Unsuitable extinguishing media : High volume water jet

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire fighting : Cool containers exposed to fire with water. Decomposition, pressure build-up and bursting of containers may occur.

Hazardous combustion products : Carbon oxides
Oxides of phosphorus

**5.3 Advice for firefighters**

Special protective equipment for fire-fighters : Appropriate breathing apparatus may be required.

Further information : Cool containers/tanks with water spray.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Avoid breathing vapours.
For non-emergency personnel:
Use personal protective equipment.

Ensure adequate ventilation, especially in confined areas.
Keep away from sources of ignition.
For emergency responders:
Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

### 6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
Avoid subsoil penetration.
Do not allow uncontrolled discharge of product into the environment.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).
Ensure adequate ventilation.

### 6.4 Reference to other sections

For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).
Do not return residues to the storage containers.
Handle with care - avoid bumps, friction and impact.
Smoking, eating and drinking are forbidden in application area. For personal protection see section 8. Comply with the health and safety at work laws.
The workplace should be equipped with an emergency shower and eye-rinsing facility.
Avoid contact with the skin, eyes and clothing.
Handle in accordance with good industrial hygiene and safety practice.

Advice on protection against fire and explosion : Avoid all sources of ignition: heat, sparks, open flame. The relevant fire protection measures should be noted.

Hygiene measures : Remove contaminated clothing immediately and dispose of safely.
Wash hands before breaks and at the end of workday. Keep away from food, drink and animal feedingstuffs.

### 7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions : Avoid direct sunlight. Close containers carefully once opened and store them upright in order to prevent any leakage. No smoking. No admission for unauthorised personnel. Always keep in containers of same material as the original one. Observe label precautions. Keep in a dry, cool and well-ventilated place.

Advice on common storage : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Packaging material : Suitable material: Carbon steel (Iron), tinned carbon steel (Tinplate)

### 7.3 Specific end use(s)

Specific use(s) : Please refer to the technical leaflet for further information.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|---|---|---|---|
| dimethyl ether | 115-10-6 | TWA | 400 ppm<br>766 mg/m3 | GB EH40 |
| | | STEL | 500 ppm<br>958 mg/m3 | GB EH40 |
| | | TWA | 1,000 ppm<br>1,920 mg/m3 | 2000/39/EC |
| | Further information: Indicative | | | |
| acetone | 67-64-1 | TWA | 500 ppm<br>1,210 mg/m3 | GB EH40 |
| | | STEL | 1,500 ppm<br>3,620 mg/m3 | GB EH40 |
| | | TWA | 500 ppm<br>1,210 mg/m3 | 2000/39/EC |
| | Further information: Indicative | | | |
| n-Butyl acetate | 123-86-4 | TWA | 150 ppm<br>724 mg/m3 | GB EH40 |
| | | STEL | 200 ppm<br>966 mg/m3 | GB EH40 |
| | | STEL | 150 ppm<br>723 mg/m3 | 2019/1831/EU |
| | Further information: Indicative | | | |
| | | TWA | 50 ppm | 2019/1831/E |

| | | | | |
|---|---|---|---|---|
| | | | 241 mg/m3 | U |
| | Further information: Indicative | | | |
| n-butanol | 71-36-3 | STEL | 50 ppm<br>154 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| phosphoric acid | 7664-38-2 | TWA | 1 mg/m3 | GB EH40 |
| | | STEL | 2 mg/m3 | GB EH40 |
| | | TWA | 1 mg/m3 | 2000/39/EC |
| | Further information: Indicative | | | |
| | | STEL | 2 mg/m3 | 2000/39/EC |
| | Further information: Indicative | | | |
| xylene | 1330-20-7 | TWA | 50 ppm<br>220 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | STEL | 100 ppm<br>441 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | TWA | 50 ppm<br>221 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| propan-2-ol | 67-63-0 | STEL | 500 ppm<br>1,250 mg/m3 | GB EH40 |
| | | TWA | 400 ppm<br>999 mg/m3 | GB EH40 |
| 1-methoxy-2-propylacetate | 108-65-6 | TWA | 50 ppm<br>274 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | STEL | 100 ppm<br>548 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | STEL | 100 ppm<br>550 mg/m3 | 2000/39/EC |

| | | | | |
|---|---|---|---|---|
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | TWA | 50 ppm<br>275 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| ethylbenzene | 100-41-4 | TWA | 100 ppm<br>441 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | STEL | 125 ppm<br>552 mg/m3 | GB EH40 |
| | Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity. | | | |
| | | TWA | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 200 ppm<br>884 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |

**Biological occupational exposure limits**

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|---|---|---|---|---|
| xylene | 1330-20-7 | methyl hippuric acid: 650 Millimoles per mole creatinine<br>(Urine) | After shift | GB EH40 BAT |

### 8.2 Exposure controls

**Engineering measures**

Ensure adequate ventilation.

**Personal protective equipment**

Eye/face protection : Required when there is a risk of eye contact.
Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Hand protection

| | | |
|---|---|---|
| Remarks | : | Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.<br>butyl rubber gloves - material thickness: 0.5 mm<br>Further information on penetration time is available from the manufacturer of the glove.<br>Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.<br>The suitability for a specific workplace should be discussed with the producers of the protective gloves.<br>Request information on glove permeation properties from the glove supplier.<br>Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.<br>Preventive skin protection<br>Suitable materials for short-term contact (recommended: At least protective index 2, corresponding > 30 minutes of permeation time according to EN ISO 374-1)<br>Suitable materials also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN ISO 374-1):<br>Suitable materials against splashes (recommended: At least protective index 1, corresponding > 10 minutes of permeation time according to EN ISO 374-1) |
| Skin and body protection | : | Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.<br>disposable coveralls |
| Respiratory protection | : | Suitable respiratory equipment:<br>half-mask with A1P2 class combination filter<br>In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.<br>When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| Protective measures | : | Eye wash fountains and safety showers must be easily accessible.<br><br>If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.<br><br>Avoid contact with the skin, eyes and clothing.<br>Handle in accordance with good industrial hygiene and safety practice. |

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Appearance | : | aerosol |
| Color | : | gray |
| Odor | : | specific |
| pH | : | substance/mixture is a gas |
| Melting point/ range | : | Study technically not feasible. |
| Boiling point/boiling range | : | Study technically not feasible. |
| Flash point | : | Not applicable |
| Flammability (solid, gas) | : | Extremely flammable aerosol. |
| Upper explosion limit / Upper flammability limit | : | Upper explosion limit<br>18.60 %(V) |
| Lower explosion limit / Lower flammability limit | : | 2.6 %(V) |
| Vapor pressure | : | > 999.0000 hPawithout propellant (20 °C)<br>Method: calculated<br><br>not determined (50 °C) |
| Density | : | 0.820 g/cm3 (20 °C) |
| Solubility(ies) | | |
| Water solubility | : | not determined |
| Partition coefficient: n-octanol/water | : | not applicable for mixtures |
| Autoignition temperature | : | 235 °C |
| Decomposition temperature | : | No decomposition if stored and handled as prescribed/indicated. |
| Viscosity | | |
| Viscosity, kinematic | : | 9.8 mm2/s (23 °C)<br><br>not determined (40 °C) |
| Flow time | : | 35 s at 23 °C |

| | | |
|---|---|---|
| | | Cross section: 3 mm<br>Method: ISO 2431<br>without propellant |
| Explosive properties | : | Not explosive |
| Oxidizing properties | : | The substance or mixture is not classified as oxidizing. |

**9.2 Other information**

| | | |
|---|---|---|
| Self-heating substances | : | The substance or mixture is not classified as self heating. |
| Metal corrosion rate | : | Not corrosive to metals. |
| Particle size | : | No data available |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**

| | | |
|---|---|---|
| Hazardous reactions | : | Vapors may form explosive mixture with air.<br>Risk of bursting. |

**10.4 Conditions to avoid**

| | | |
|---|---|---|
| Conditions to avoid | : | Avoid direct sunlight. |

**10.5 Incompatible materials**

| | | |
|---|---|---|
| Materials to avoid | : | Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. |

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Product:**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate: > 2,000 mg/kg<br>Method: Calculation method |
| Acute inhalation toxicity | : | Acute toxicity estimate: > 5 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Calculation method |
| Acute dermal toxicity | : | Acute toxicity estimate: > 2,000 mg/kg<br>Method: Calculation method |

**Components:**

**phosphoric acid:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat, female): 2,000 mg/kg |

**Skin corrosion/irritation**

Causes skin irritation.

**Components:**

**acetone:**

| | | |
|---|---|---|
| Assessment | : | Repeated exposure may cause skin dryness or cracking. |

**n-Butyl acetate:**

| | | |
|---|---|---|
| Assessment | : | Repeated exposure may cause skin dryness or cracking. |

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Respiratory or skin sensitization**

**Skin sensitization**

May cause an allergic skin reaction.

**Respiratory sensitization**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**
May cause drowsiness or dizziness.

**STOT-repeated exposure**
Based on available data, the classification criteria are not met.

**Aspiration toxicity**
Based on available data, the classification criteria are not met.

**Product:**
No aspiration toxicity classification

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**zinc phosphate:**

| | | |
|---|---|---|
| M-Factor (Acute aquatic toxicity) | : | 1 |
| M-Factor (Chronic aquatic toxicity) | : | 1 |

### 12.2 Persistence and degradability
No data available

### 12.3 Bioaccumulative potential

**Components:**

**acetone:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: -0.24 (25 °C) |

**n-Butyl acetate:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | Pow: 200 (25 °C)<br>log Pow: 2.3 (25 °C)<br>pH: 7<br>Method: OECD Test Guideline 117<br>GLP: yes |

**n-butanol:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 1 (25 °C)<br>Method: OECD Test Guideline 117<br>GLP: yes |

**xylene:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 3.12 - 3.20 (25 °C)<br>GLP: no<br>Remarks: Information taken from reference works and the literature. |

**propan-2-ol:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 0.05 (25 °C)<br>Remarks: Information taken from reference works and the literature. |

**1-methoxy-2-propylacetate:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 1.2 (20 °C)<br>pH: 6.8<br>Method: OECD Test Guideline 117<br>GLP: yes |

**ethylbenzene:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | Pow: 4,170 (20 °C)<br>log Pow: 3.6 (20 °C)<br>pH: 7.8<br>GLP: yes |

**dimethyl ether:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 0.07 (25 °C)<br>pH: 7 |

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

| | | |
|---|---|---|
| Assessment | : | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |

### 12.6 Other adverse effects

**Product:**

| | | |
|---|---|---|
| Endocrine disrupting potential | : | This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or |

higher.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | | |
|---|---|---|
| Product | : | Do not discharge into drains/surface waters/groundwater. Observe national and local legal requirements. |
| Contaminated packaging | : | Packaging that is not properly emptied must be disposed of as the unused product. |

## SECTION 14: Transport information

### 14.1 UN number

| | | |
|---|---|---|
| **ADN** | : | UN 1950 |
| **ADR** | : | UN 1950 |
| **RID** | : | UN 1950 |
| **IMDG** | : | UN 1950 |
| **IATA** | : | UN 1950 |

### 14.2 UN proper shipping name

| | | |
|---|---|---|
| **ADN** | : | AEROSOLS |
| **ADR** | : | AEROSOLS |
| **RID** | : | AEROSOLS |
| **IMDG** | : | AEROSOLS<br>(ZINC OXIDE, ZINC PHOSPHATE) |
| **IATA** | : | AEROSOLS |

### 14.3 Transport hazard class(es)

| | | Class | Subsidiary risks |
|---|---|---|---|
| **ADN** | : | 2 | 2.1 |
| **ADR** | : | 2 | 2.1 |
| **RID** | : | 2 | 2.1 |
| **IMDG** | : | 2.1 | |
| **IATA** | : | 2.1 | |

### 14.4 Packing group

**ADN**

| | | |
|---|---|---|
| Packing group | : | Not assigned by regulation |
| Classification Code | : | 5F |
| Labels | : | 2.1 |

**ADR**

| | | |
|---|---|---|
| Packing group | : | Not assigned by regulation |
| Classification Code | : | 5F |
| Labels | : | 2.1 |
| Tunnel restriction code | : | (D) |

**RID**

| | | |
|---|---|---|
| Packing group | : | Not assigned by regulation |
| Classification Code | : | 5F |
| Hazard Identification Number | : | 23 |
| Labels | : | 2.1 |

**IMDG**

| | | |
|---|---|---|
| Packing group | : | Not assigned by regulation |
| Labels | : | 2.1 |
| EmS Code | : | F-D, S-U |

**IATA (Cargo)**

| | | |
|---|---|---|
| Packing instruction (cargo aircraft) | : | 203 |
| Packing instruction (LQ) | : | Y203 |
| Packing group | : | Not assigned by regulation |
| Labels | : | Flammable Gas |

**IATA (Passenger)**

| | | |
|---|---|---|
| Packing instruction (passenger aircraft) | : | 203 |
| Packing instruction (LQ) | : | Y203 |
| Packing group | : | Not assigned by regulation |
| Labels | : | Flammable gas |

### 14.5 Environmental hazards

**ADN**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

**ADR**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

**RID**

| | | |
|---|---|---|
| Environmentally hazardous | : | yes |

**IMDG**

| | | |
|---|---|---|
| Marine pollutant | : | yes |

**14.6 Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

| | | | |
|---|---|---|---|
| UK REACH List of restrictions (Annex 17) | : | Conditions of restriction for the following entries should be considered: Number on list 3 | |
| UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation | : | Not applicable | |
| The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) | : | Not applicable | |
| Regulation (EU) No 2024/590 on substances that deplete the ozone layer | : | Not applicable | |
| Regulation (EU) 2019/1148 on the marketing and use of explosives precursors | : | acetone | |
| UK REACH List of substances subject to authorisation (Annex XIV) | : | Not applicable | |
| Control of Major Accident Hazards Regulations 2015 (COMAH) | | P5c | |
| | | P3a | FLAMMABLE AEROSOLS |
| | | E2 | ENVIRONMENTAL HAZARDS |

Volatile organic compounds : Volatile organic compounds (VOC) content: 695 g/l

Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Volatile organic compounds (VOC) content: 87.53 %

**Other regulations:**

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.
Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

Details relating to the VOC Directive 2004/42/EC:

| | |
|---|---|
| Subcategory as indicated in Annex IIB: | e |
| Limit value for maximum VOC content as specified in Annex IIB: | 840 g/l |
| VOC content of the ready-for-use product according to ISO 11890-2: | 695 g/l |

**15.2 Chemical Safety Assessment**

Assessment of safe use has been performed for the mixture and the result is documented in section 7 and 8 of the SDS

## SECTION 16: Other information

**Full text of H-Statements**

| | | |
|---|---|---|
| H220 | : | Extremely flammable gas. |
| H225 | : | Highly flammable liquid and vapor. |
| H226 | : | Flammable liquid and vapor. |
| H280 | : | Contains gas under pressure; may explode if heated. |
| H290 | : | May be corrosive to metals. |
| H302 | : | Harmful if swallowed. |
| H304 | : | May be fatal if swallowed and enters airways. |
| H312 | : | Harmful in contact with skin. |
| H314 | : | Causes severe skin burns and eye damage. |
| H315 | : | Causes skin irritation. |
| H317 | : | May cause an allergic skin reaction. |
| H318 | : | Causes serious eye damage. |
| H319 | : | Causes serious eye irritation. |
| H332 | : | Harmful if inhaled. |
| H335 | : | May cause respiratory irritation. |
| H336 | : | May cause drowsiness or dizziness. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure. |
| H400 | : | Very toxic to aquatic life. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| H412 | : | Harmful to aquatic life with long lasting effects. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Acute | : | Short-term (acute) aquatic hazard |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Asp. Tox. | : | Aspiration hazard |
| Eye Dam. | : | Serious eye damage |

| | | |
|---|---|---|
| Eye Irrit. | : | Eye irritation |
| Flam. Gas | : | Flammable gases |
| Flam. Liq. | : | Flammable liquids |
| Met. Corr. | : | Corrosive to Metals |
| Press. Gas | : | Gases under pressure |
| Skin Corr. | : | Skin corrosion |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitization |
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| STOT SE | : | Specific target organ toxicity - single exposure |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| 2019/1831/EU | : | Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values |
| GB EH40 | : | UK. EH40 WEL - Workplace Exposure Limits |
| GB EH40 BAT | : | UK. Biological monitoring guidance values |
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| 2000/39/EC / STEL | : | Short term exposure limit |
| 2019/1831/EU / TWA | : | Limit Value - eight hours |
| 2019/1831/EU / STEL | : | Short term exposure limit |
| GB EH40 / TWA | : | Long-term exposure limit (8-hour TWA reference period) |
| GB EH40 / STEL | : | Short-term exposure limit (15-minute reference period) |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardization; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Re-

striction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information : Restricted to professional users.
For multi-pack systems observe material safety data sheets of all components.

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Aerosol 1 | H222, H229 | Based on product data or assessment |
| Skin Irrit. 2 | H315 | Calculation method |
| Eye Dam. 1 | H318 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| STOT SE 3 | H336 | Calculation method |
| Aquatic Chronic 2 | H411 | Calculation method |

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN