

Safety data sheet

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BASF Safety data sheet according to Regulation UK SI 2019/758 and UK SI 2020/1577 as amended from time to time.

Date / Revised: 12.06.2024

Version: 13.0

Date / Previous version: 31.01.2024

Previous version: 12.0

Product: **A-U-48S 0,4L**

(ID no. 50736268/SDS_GEN_GB/EN)

Date of print 13.06.2024

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

1.1. Product identifier

A-U-48S 0,4L

UFI: 8TP4-F2U9-A00F-SXAU

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

Relevant identified uses: Coatings and related products

1.3. Details of the supplier of the safety data sheet

Company:

BASF Coatings GmbH
Postfach 6123
48136 Muenster
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 number

International emergency number:

Telephone: +49 180 2273-112

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

For the classification of the mixture the following methods have been applied: extrapolation on the concentration levels of the hazardous substances, on basis of test results and after evaluation of experts. The methodologies used are mentioned at the respective test results.

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According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Skin Corr./Irrit. 2	H315 Causes skin irritation.
Eye Dam./Irrit. 1	H318 Causes serious eye damage.
Skin Sens. 1	H317 May cause an allergic skin reaction.
STOT SE 3	H336 May cause drowsiness or dizziness.
Aquatic Chronic 2	H411 Toxic to aquatic life with long lasting effects.
Flam. Aerosol 1	H222 Extremely flammable aerosol.
Flam. Aerosol 1	H229 Pressurized container: May burst if heated.

For the classifications not written out in full in this section the full text can be found in section 16.

2.2. Label elements

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

Pictogram:



Signal Word:

Danger

Hazard Statement:

H222	Extremely flammable aerosol.
H229	Pressurized 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.
P251	Do not pierce or burn, even after use.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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Precautionary Statements (Storage):

P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary Statements (Disposal):

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P501 Dispose of contents and container to hazardous or special waste collection point.

Labeling of special preparations (GHS):

P211: Do not spray on an open flame or other ignition source.

Hazard determining component(s) for labelling: acetone, butan-1-ol, phosphoric acid ... %, orthophosphoric acid ... %, epoxy resin mw 700<1200

2.3. Other hazards

According to GB-CLP Regulations UK SI 2019/720 and UK SI 2020/1567

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.

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

SECTION 3: Composition/Information on Ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical nature

organic solvent, inorganic acids, pigment, epoxy resin

Hazardous ingredients (GHS)

dimethyl ether

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Content (W/W): $\geq 30\%$ - $< 50\%$
 CAS Number: 115-10-6
 EC-Number: 204-065-8
 REACH registration number: 01-2119472128-37
 INDEX-Number: 603-019-00-8

Press. Gas Liquef. Gas
 Flam. Gas 1
 H280, H220

Differing classification according to current knowledge and the criteria given in Annex I of Regulation (EC) No. 1272/2008

Press. Gas Liquef. Gas
 Flam. gases (incl. chem. unstable gases) 1A

Substance with EU occupational exposure limit

acetone

Content (W/W): $\geq 15\%$ - $< 20\%$
 CAS Number: 67-64-1
 EC-Number: 200-662-2
 REACH registration number: 01-2119471330-49
 INDEX-Number: 606-001-00-8

Flam. Liq. 2
 Eye Irrit. 2
 STOT SE 3 (drowsiness and dizziness)
 H225, H319, H336
 EUH066

| trizinc bis(orthophosphate)

Content (W/W): $\geq 7\%$ - $< 10\%$
 CAS Number: 7779-90-0
 EC-Number: 231-944-3
 REACH registration number: 01-2119485044-40
 INDEX-Number: 030-011-00-6

Aquatic Acute 1
 Aquatic Chronic 1
 M-factor acute: 1
 M-factor chronic: 1
 H400, H410

zinc oxide

Content (W/W): $\geq 7\%$ - $< 10\%$
 CAS Number: 1314-13-2
 EC-Number: 215-222-5
 REACH registration number: 01-2119463881-32
 INDEX-Number: 030-013-00-7

Aquatic Acute 1
 Aquatic Chronic 1
 M-factor acute: 1
 M-factor chronic: 1
 H400, H410

butan-1-ol

Content (W/W): $\geq 7\%$ - $< 10\%$
 CAS Number: 71-36-3
 EC-Number: 200-751-6
 REACH registration number: 01-2119484630-38
 INDEX-Number: 603-004-00-6

Flam. Liq. 3
 Acute Tox. 4 (oral)
 Skin Corr./Irrit. 2
 Eye Dam./Irrit. 1
 STOT SE 3 (drowsiness and dizziness)
 STOT SE 3 (irr. to respiratory syst.)
 H226, H318, H315, H302, H336, H335

n-butyl acetate

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Content (W/W): $\geq 7\%$ - $< 10\%$	Flam. Liq. 3
CAS Number: 123-86-4	STOT SE 3 (drowsiness and dizziness)
EC-Number: 204-658-1	H226, H336
REACH registration number: 01-2119485493-29	EUH066
INDEX-Number: 607-025-00-1	

phosphoric acid ... %, orthophosphoric acid ... %

Content (W/W): $\geq 3\%$ - $< 5\%$	Met. Corr. 1
CAS Number: 7664-38-2	Acute Tox. 4 (oral)
EC-Number: 231-633-2	Skin Corr. 1B
REACH registration number: 01-2119485924-24	Eye Dam. 1
INDEX-Number: 015-011-00-6	H290, H302, H314
	<u>Specific concentration limit:</u>
	Skin Corr./Irrit. 1B: $\geq 25\%$
	Eye Dam./Irrit. 2: $10 - < 25\%$
	Skin Corr./Irrit. 2: $10 - < 25\%$

epoxy resin mw 700<1200

Content (W/W): $\geq 3\%$ - $< 5\%$	Skin Corr./Irrit. 2
CAS Number: 25068-38-6	Skin Sens. 1
	Eye Dam./Irrit. 2
	H319, H315, H317

xylene

Content (W/W): $\geq 1\%$ - $< 2\%$	Asp. Tox. 1
CAS Number: 1330-20-7	Flam. Liq. 3
EC-Number: 215-535-7	Acute Tox. 4 (Inhalation - vapour)
REACH registration number: 01-2119488216-32	Acute Tox. 4 (dermal)
INDEX-Number: 601-022-00-9	Skin Irrit. 2
	Eye Irrit. 2
	STOT SE 3 (irr. to respiratory syst.)
	Aquatic Chronic 3
	STOT RE (Central nervous system, Liver, Kidney) 2
	H226, H319, H315, H304, H335, H373, H312 + H332, H412

propan-2-ol

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Content (W/W): $\geq 1\%$ - $< 2\%$	Flam. Liq. 2
CAS Number: 67-63-0	Eye Irrit. 2
EC-Number: 200-661-7	STOT SE 3 (drowsiness and dizziness)
REACH registration number: 01-2119457558-25	H225, H319, H336
INDEX-Number: 603-117-00-0	

2-methoxy-1-methylethyl acetate	
Content (W/W): $\geq 1\%$ - $< 2\%$	Flam. Liq. 3
CAS Number: 108-65-6	STOT SE 3 (drowsiness and dizziness)
EC-Number: 203-603-9	H226, H336
REACH registration number: 01-2119475791-29	
INDEX-Number: 607-195-00-7	

For the classifications not written out in full in this section, including the hazard classes and the hazard statements, the full text is listed in section 16.

SECTION 4: First-Aid Measures

4.1. Description of first aid measures

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). Remove affected person from danger area. Immediately remove contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. If symptoms persist, seek medical advice. If breathing is irregular or stopped, administer artificial respiration.

On skin contact:

If symptoms persist, seek medical advice. Remove contaminated clothing. Wash skin with soap and water, rinse abundantly. Do NOT use solvents or thinners.

On contact with eyes:

Remove contact lenses, if present. Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist. Immediate medical attention required.

On ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water, seek medical attention. If adverse health effects develop seek medical attention.

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

Symptoms: allergic symptoms, dazed state, skin irritation, dizziness, 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.

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

Antidote: No known specific antidote.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

carbon dioxide, alcohol-resistant foam, dry powder, water spray

Unsuitable extinguishing media for safety reasons:

water jet

5.2. Special hazards arising from the substance or mixture

Endangering substances: carbon oxides, phosphorus oxides

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

5.3. Advice for fire-fighters

Special protective equipment:

Appropriate breathing apparatus may be required.

Further information:

Cool closed containers in the vicinity of the source of fire. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours. For non-emergency personnel: Use personal protective clothing. Ensure adequate ventilation. 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. Information regarding personal protective measures, see section 8.

6.2. Environmental precautions

Do not allow to enter drains or waterways. If the product enters drains or sewers, the local water company should be contacted immediately; in the case of contamination of streams, rivers or lakes, the Environment Agency. Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal according with the waste regulations (see section 13). Clean preferably with a detergent; avoid the use of solvents. Ensure adequate ventilation.

6.4. Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

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SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary). Do not return residues to the storage containers. Do not spray on an open flame or other ignition source. 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. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits. Avoid inhalation of vapour and spray mist. 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.

Protection against fire and explosion:

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

7.2. Conditions for safe storage, including any incompatibilities

Keep away from oxidising agents, from strongly alkaline and strongly acid materials.

Suitable materials for containers: Carbon steel (Iron), tinned carbon steel (Tinplate)

Further information on storage conditions: Keep container dry. Keep away from heat. Keep in a cool, well-ventilated place. 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.

7.3. Specific end use(s)

Please refer to the technical leaflet for further information.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Components with occupational exposure limits

67-63-0: propan-2-ol

TWA value 999 mg/m³ ; 400 ppm (WEL/EH 40 (UK))
STEL value 1,250 mg/m³ ; 500 ppm (WEL/EH 40 (UK))
Ceiling limit value/factor: 15 min

67-64-1: acetone

TWA value 1,210 mg/m³ ; 500 ppm (WEL/EH 40 (UK))
TWA value 1,210 mg/m³ ; 500 ppm (OEL (EU))
indicative
STEL value 3,620 mg/m³ ; 1,500 ppm (WEL/EH 40 (UK))
Ceiling limit value/factor: 15 min

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71-36-3: butan-1-ol

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

STEL value 154 mg/m³ ; 50 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

108-65-6: 2-methoxy-1-methylethyl acetate

TWA value 274 mg/m³ ; 50 ppm (WEL/EH 40 (UK))

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

STEL value 550 mg/m³ ; 100 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

TWA value 275 mg/m³ ; 50 ppm (OEL (EU))

indicative

STEL value 548 mg/m³ ; 100 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

STEL value 548 mg/m³ ; 100 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

115-10-6: dimethyl ether

TWA value 766 mg/m³ ; 400 ppm (WEL/EH 40 (UK))

TWA value 1,920 mg/m³ ; 1,000 ppm (OEL (EU))

indicative

STEL value 958 mg/m³ ; 500 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

123-86-4: n-butyl acetate

TWA value 724 mg/m³ ; 150 ppm (WEL/EH 40 (UK))

STEL value 723 mg/m³ ; 150 ppm (OEL (EU))

indicative

TWA value 241 mg/m³ ; 50 ppm (OEL (EU))

indicative

STEL value 966 mg/m³ ; 200 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

1330-20-7: xylene

TWA value 220 mg/m³ ; 50 ppm (WEL/EH 40 (UK))

Skin Designation (WEL/EH 40 (UK))

The substance can be absorbed through the skin.

STEL value 442 mg/m³ ; 100 ppm (OEL (EU))

indicative

Skin Designation (OEL (EU))

The substance can be absorbed through the skin.

TWA value 221 mg/m³ ; 50 ppm (OEL (EU))

indicative

STEL value 441 mg/m³ ; 100 ppm (WEL/EH 40 (UK))

Ceiling limit value/factor: 15 min

7664-38-2: phosphoric acid ... %, orthophosphoric acid ... %

TWA value 1 mg/m³ (WEL/EH 40 (UK))

STEL value 2 mg/m³ (WEL/EH 40 (UK))

TWA value 1 mg/m³ (OEL (EU))

indicative

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STEL value 2 mg/m³ (OEL (EU))
indicative
STEL value 2 mg/m³ (WEL/EH 40 (UK))
Ceiling limit value/factor: 15 min

Components with biological limit values

1330-20-7: xylene

UKEH40BMGV

Determinant: methylhippuric (toluric) acid

Biological Specimen: Creatinine in urine

Sampling time: End of shift

Concentration: 650 mmol/mol

Components with PNEC

67-63-0: propan-2-ol

freshwater: 140.9 mg/l

marine water: 140.9 mg/l

intermittent release: 140.9 mg/l

STP: 2251 mg/l

sediment (freshwater): 552 mg/kg

sediment (marine water): 552 mg/kg

soil: 28 mg/kg

oral (secondary poisoning): 160 mg/kg

67-64-1: acetone

freshwater: 10.6 mg/l

marine water: 1.06 mg/l

intermittent release: 21 mg/l

sediment (freshwater): 30.4 mg/kg

sediment (marine water): 3.04 mg/kg

soil: 29.5 mg/kg

STP: 100 mg/l

71-36-3: butan-1-ol

freshwater: 0.082 mg/l

marine water: 0.0082 mg/l

intermittent release: 2.25 mg/l

STP: 2476 mg/l

sediment (freshwater): 0.324 mg/kg

sediment (marine water): 0.0324 mg/kg

soil: 0.0166 mg/kg

108-65-6: 2-methoxy-1-methylethyl acetate

freshwater: 0.635 mg/l

marine water: 0.0635 mg/l

intermittent release: 6.35 mg/l

sediment (freshwater): 3.29 mg/kg

sediment (marine water): 0.329 mg/kg

soil: 0.29 mg/kg

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STP: 100 mg/l

123-86-4: n-butyl acetate

freshwater: 0.18 mg/l

marine water: 0.018 mg/l

intermittent release: 0.36 mg/l

STP: 35.6 mg/l

sediment (freshwater): 0.981 mg/kg

sediment (marine water): 0.0981 mg/kg

soil: 0.0903 mg/kg

1314-13-2: zinc oxide

freshwater: 0.0206 mg/l

marine water: 0.0061 mg/l

intermittent release: 0.052 mg/l

sediment (freshwater): 117.8 mg/kg

sediment (marine water): 56.5 mg/kg

soil: 35.6 mg/kg

1330-20-7: xylene

freshwater: 0.327 mg/l

marine water: 0.327 mg/l

intermittent release: 0.327 mg/l

STP: 6.58 mg/l

sediment (freshwater): 12.46 mg/kg

sediment (marine water): 12.46 mg/kg

soil: 2.31 mg/kg

oral (secondary poisoning):

No PNEC oral derived, as accumulation in organisms is not to be expected.

| 7779-90-0: trizinc bis(orthophosphate)

sediment (freshwater): 117.8 mg/kg

freshwater: 20.6 µg/l

soil: 35.6 mg/kg

marine water: 6.1 µg/l

sediment (marine water): 56.5 mg/kg

STP: 100 µg/l

Components with DNEL

67-63-0: propan-2-ol

worker: Long-term exposure- systemic effects, Inhalation: 500 mg/m³

worker: Long-term exposure- systemic effects, dermal: 888 mg/kg

consumer: Long-term exposure- systemic effects, Inhalation: 89 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 319 mg/kg

consumer: Long-term exposure- systemic effects, oral: 26 mg/kg

67-64-1: acetone

worker: Long-term exposure - local effects, Inhalation: 2420 mg/m³

worker: Long-term exposure- systemic effects, Inhalation: 1210 mg/m³, 500 ppm

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worker: Long-term exposure- systemic effects, dermal: 186 mg/kg
consumer: Long-term exposure- systemic effects, dermal: 62 mg/kg
consumer: Long-term exposure- systemic effects, Inhalation: 200 mg/m³
consumer: Long-term exposure- systemic effects, oral: 62 mg/kg

71-36-3: butan-1-ol

worker: Long-term exposure - systemic and local effects, Inhalation: 310 mg/m³
consumer: Long-term exposure- systemic effects, Inhalation: 55.357 mg/m³
consumer: Long-term exposure- systemic effects, oral: 1.5625 mg/kg
consumer: Long-term exposure - local effects, Inhalation: 155 mg/m³
consumer: Long-term exposure- systemic effects, dermal: 3.125 mg/kg

108-65-6: 2-methoxy-1-methylethyl acetate

worker: Long-term exposure- systemic effects, Inhalation: 275 mg/m³
worker: Long-term exposure- systemic effects, dermal: 796 mg/kg
consumer: Long-term exposure- systemic effects, oral: 36 mg/kg
consumer: Long-term exposure - systemic and local effects, Inhalation: 33 mg/m³
consumer: Long-term exposure- systemic effects, dermal: 320 mg/kg
worker: Short-term exposure - local effects, Inhalation: 550 mg/m³
consumer: Short-term exposure - systemic effects, oral: 500 mg/kg

123-86-4: n-butyl acetate

worker: Short-term exposure - local effects, Inhalation: 600 mg/m³
worker: Long-term exposure - local effects, Inhalation: 300 mg/m³
consumer: Short-term exposure - local effects, Inhalation: 300 mg/m³
consumer: Long-term exposure - local effects, Inhalation: 35.7 mg/m³
worker: Long-term exposure- systemic effects, dermal: 11 mg/kg
worker: Short-term exposure - systemic effects, dermal: 11 mg/kg
consumer: Long-term exposure- systemic effects, dermal: 6 mg/kg
consumer: Short-term exposure - systemic effects, dermal: 6 mg/kg
consumer: Long-term exposure- systemic effects, oral: 2 mg/kg
consumer: Short-term exposure - systemic effects, oral: 2 mg/kg

1314-13-2: zinc oxide

worker: Long-term exposure- systemic effects, Inhalation: 5 mg/m³
worker: Long-term exposure- systemic effects, dermal: 83.3 mg/kg

1330-20-7: xylene

worker: Long-term exposure- systemic effects, Inhalation: 77 mg/m³
worker: Short-term exposure - systemic effects, Inhalation: 289 mg/m³
worker: Long-term exposure- systemic effects, dermal: 180 mg/kg
consumer: Long-term exposure- systemic effects, Inhalation: 14.8 mg/m³
consumer: Short-term exposure - systemic effects, Inhalation: 174 mg/m³
consumer: Long-term exposure- systemic effects, dermal: 108 mg/kg
consumer: Long-term exposure- systemic effects, oral: 1.6 mg/kg

7664-38-2: phosphoric acid ... %, orthophosphoric acid ... %

worker: Long-term exposure - local effects, Inhalation: 2.92 mg/m³
worker: Long- and short-term exposure - local effects, Inhalation: 1 mg/m³

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| 7779-90-0: trizinc bis(orthophosphate)

worker: Long-term exposure- systemic effects, Inhalation: 5 mg/m³

worker: Long-term exposure- systemic effects, dermal: 83 mg/m³

consumer: Long-term exposure- systemic effects, Inhalation: 2.5 mg/m³

consumer: Long-term exposure- systemic effects, dermal: 83 mg/m³

consumer: Long-term exposure- systemic effects, oral: 0.83 mg/m³

8.2. Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. This can be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations at the workplace below the occupational exposure limits, appropriate certified respirators must be worn.

Personal protective equipment

Respiratory protection:

Suitable respiratory protection: e.g. half-mask with A1P2 class combination filter

Hand protection:

Further information on penetration time is available from the manufacturer of the glove.

Data are based on information from the glove manufacturer, the raw material manufacturer or according to specifics of the product components.

The protection glove should be tested for its specific suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Follow manufacturer's advice on use, storage, maintenance and replacement of gloves.

The gloves should be replaced immediately in case of damage or signs of wear. It is recommended to use preventative skin protection (skin cream).

Wear protective gloves. Any chemical protection glove certified according to EN ISO 374-1 is suitable: e.g.

butyl rubber gloves - material thickness: 0.5 mm

Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

chemical-resistant disposable coveralls, Personnel should wear antistatic, flame-retardant clothing made of natural fibres and/or heat-resistant synthetic fibres.

General safety and hygiene measures

Do not breathe vapour/spray. Eye wash fountains and safety showers must be easily accessible.

Avoid contact with the skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove contaminated clothing immediately and dispose of safely. Hands and/or face should be washed before breaks and at the end of the shift. Keep separated from food stuffs and feed stocks.

Environmental exposure controls

For information regarding environmental exposure controls, see Section 6.

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SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Form:	liquid
Colour:	grey
Odour:	specific
pH value:	
	substance/mixture is a gas
Melting point:	
	Study technically not feasible.
onset of boiling:	
	not determined
Flash point:	
	not applicable, the product is a gas
Flammability:	Extremely flammable aerosol.
Lower explosion limit:	2.6 %(V)
Ignition temperature:	235.00 °C
Vapour pressure:	> 999.00 hPa (calculated) (20 °C) without propellant
	(50 °C)
	not determined
Density:	0.750 g/cm ³ (20 °C)
Relative vapour density (air):	Heavier than air.
Partitioning coefficient n-octanol/water (log Kow):	not applicable for mixtures
Thermal decomposition:	No decomposition if stored and handled as prescribed/indicated.
Viscosity, kinematic:	9.8 mm ² /s (23 °C) without propellant
	(40 °C)
	No data available.
Explosion hazard:	not explosive
Fire promoting properties:	not fire-propagating

9.2. Other information

Burning rate:	The material doesn't meet the criteria (UN Test N.1 (ready specified in paragraph 33.2.4.4 of UN combustible solids)) manual of tests and criteria.
Self heating ability:	It is not a material capable of spontaneous heating
Miscibility with water:	immiscible

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Flow time: 35 s (DIN EN ISO 2431; 3 mm)
(23 °C)
without propellant

SECTION 10: Stability and Reactivity

10.1. Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2. Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3. Possibility of hazardous reactions

Risk of bursting. Vapours may form explosive mixture with air.

10.4. Conditions to avoid

Avoid heat. Avoid direct sunlight.

10.5. Incompatible materials

Substances to avoid:

Keep away from highly acidic or alkaline substances as well as oxidants in order to prevent exothermal reactions.

10.6. Hazardous decomposition products

When exposed to high temperatures hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke, oxides of nitrogen may be produced., No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effect on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. Repeated and prolonged exposure to solvents at levels significantly above OELs may lead to the development of long-lasting central nervous system disorders such as chronic toxic encephalopathy, signs of toxicity include changes in behaviour and memory. Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

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The mixture has been assessed following regulation (EC) No 1272/2008. See sections 2 and 3 for details.

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

Irritation

Assessment of irritating effects:

The liquid splashed in the eyes may cause irritation and reversible damage. Skin contact causes irritation. May cause severe damage to the eyes.

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Germ cell mutagenicity

Assessment of mutagenicity:

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

Carcinogenicity

Assessment of carcinogenicity:

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

Reproductive toxicity

Assessment of reproduction toxicity:

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

Developmental toxicity

Assessment of teratogenicity:

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

Specific target organ toxicity (single exposure)

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

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Assessment of repeated dose toxicity:

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

Aspiration hazard

No aspiration hazard expected.

SECTION 12: Ecological Information

12.1. Toxicity

Assessment of aquatic toxicity:

There are no test results available for this product. Do not allow to enter drains or waterways. The mixture has been assessed following regulation (EC) No 1272/2008 and is classified for ecotoxicological properties accordingly. See sections 2 and 3 for details.

12.2. Persistence and degradability

Assessment biodegradation and elimination (H₂O):

Biological degradability of hazardous substances mentioned in section 3:

Information on: xylene

Elimination information:

87.8 % BOD of the ThOD (28 d) (OECD Guideline 301 F) (aerobic, activated sludge, domestic, non-adapted)

The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Information on: trizinc bis(orthophosphate)

12.3. Bioaccumulative potential

Bioaccumulation potential:

No data available.

12.4. Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: No data available.

12.5. Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

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12.6. Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Do not discharge into drains/surface waters/groundwater.
Observe national and local legal requirements.

Dispose of the substance/product as special waste in accordance with Directive 2008/98/EC.

Waste key:

16 05 04 gases in pressure containers (including halons) containing hazardous substances

Contaminated packaging:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.

Containers which are not properly emptied must be disposed pursuant to Directive 2008/98/EC

SECTION 14: Transport Information

Land transport

ADR

UN number or ID number: UN1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: Tunnel code: D

RID

UN number or ID number: UN1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: None known

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Inland waterway transport

ADN

UN number or ID number: UN1950
UN proper shipping name: AEROSOLS
Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Special precautions for user: None known

Transport in inland waterway vessel

Not evaluated

Sea transport

IMDG

UN number or ID number: UN 1950
UN proper shipping name: AEROSOLS (contains ZINC OXIDE)
Transport hazard class(es): 2.1, EHSM
Packing group: Not applicable
Environmental hazards: yes
Marine pollutant: YES

Special precautions for user:

Air transport

IATA/ICAO

UN number or ID number: UN 1950
UN proper shipping name: AEROSOLS, FLAMMABLE
Transport hazard class(es): 2.1
Packing group: Not applicable
Environmental hazards: No Mark as dangerous for the environment is needed
Special precautions for user: None known

14.1. UN number or ID number

See corresponding entries for "UN number or ID number" for the respective regulations in the tables above.

14.2. UN proper shipping name

See corresponding entries for "UN proper shipping name" for the respective regulations in the tables above.

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14.3. Transport hazard class(es)

See corresponding entries for "Transport hazard class(es)" for the respective regulations in the tables above.

14.4. Packing group

See corresponding entries for "Packing group" for the respective regulations in the tables above.

14.5. Environmental hazards

See corresponding entries for "Environmental hazards" for the respective regulations in the tables above.

14.6. Special precautions for user

See corresponding entries for "Special precautions for user" for the respective regulations in the tables above.

14.7. Maritime transport in bulk according to IMO instruments

Maritime transport in bulk is not intended.

SECTION 15: Regulatory Information

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

Directive 2010/75/EU of the European Parliament and of the Council of 24 November 2010 on industrial emissions (integrated pollution prevention and control)

VOC content:	77.5 %	organic solvents
VOC content:	77.5 %	calculated
VOC content:	695.0 g/l	

Prohibitions, Restrictions and Authorizations

UK REACH SI, Annex XVII, Marketing and Use Restrictions
Number on List: 3

Directive 2012/18/EU - Control of Major Accident Hazards involving dangerous substances (EU):
Listed in above regulation: FLAMMABLE AEROSOLS 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids Category 1

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

If other regulatory information applies that is not already provided elsewhere in this safety data sheet, then it is described in this subsection.

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The product contains a substance (Annex I / Annex II) regulated under Regulation (EU) 2019/1148 - "marketing and use of explosives precursors". This may result in obligations for your company according to the statutory requirements of the aforementioned regulation and the respective national implementing regulations.

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

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

Full text of the classifications, including the hazard classes and the hazard statements, if mentioned in section 2 or 3:

Skin Corr./Irrit.	Skin corrosion/irritation
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
STOT SE	Specific target organ toxicity — single exposure
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Flam. Aerosol	Flammable aerosols
Press. Gas	Gases under pressure
Flam. Gas	Flammable gases
Flam. Liq.	Flammable liquids
Eye Irrit.	Eye irritation
Aquatic Acute	Hazardous to the aquatic environment - acute
Acute Tox.	Acute toxicity
Met. Corr.	Corrosive to metals
Skin Corr.	Skin corrosion
Eye Dam.	Serious eye damage
Asp. Tox.	Aspiration hazard
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity — repeated exposure
Flam. gases (incl. chem. unstable gases)	Flammable gases (including chemically unstable gases)
H222	Extremely flammable aerosol.
H229	Pressurized 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.
H280	Contains gas under pressure; may explode if heated.
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.

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H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H335	May cause respiratory irritation.
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs (Central nervous system, Liver, Kidney) through prolonged or repeated exposure.
H312 + H332	Harmful in contact with skin or if inhaled.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Abbreviations

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN = The European Agreement concerning the International Carriage of Dangerous Goods by Inland waterways. ATE = Acute Toxicity Estimates. CAO = Cargo Aircraft Only. CAS = Chemical Abstract Service. CLP = Classification, Labelling and Packaging of substances and mixtures. DIN = German national organization for standardization. DNEL = Derived No Effect Level. EC50 = Effective concentration median for 50% of the population. EC = European Community. EN = European Standards. IARC = International Agency for Research on Cancer. IATA = International Air Transport Association. IBC-Code = Intermediate Bulk Container code. IMDG = International Maritime Dangerous Goods Code. ISO = International Organization for Standardization. STEL = Short-Term Exposure Limit. LC50 = Lethal concentration median for 50% of the population. LD50 = Lethal dose median for 50% of the population. TLV = Threshold Limit Value. MARPOL = The International Convention for the Prevention of Pollution from Ships. NEN = Dutch Norm. NOEC = No Observed Effect Concentration. OEL = Occupational Exposure Limit. OECD = Organization for Economic Cooperation and Development. PBT = Persistent, Bioaccumulative and Toxic. PNEC = Predicted No Effect Level. PPM = Parts per million. RID = The European Agreement concerning the International Carriage of Dangerous Goods by Rail. TWA = Time Weight Average. UN-number = UN number at transport. vPvB = very Persistent and very Bioaccumulative.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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