

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) 2020/878

Article No.: 517
 Print date: 27.12.2022
 Version: 9.0

BLENDA-FIX 1K PU-Allgrund
 Revision date: 10.12.2022
 Issue date: 10.12.2022

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EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
231-944-3 7779-90-0 030-011-00-6	01-2119485044-40 trizinc bis(orthophosphate) Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	1 - 5
203-961-6 112-34-5 603-096-00-8 238-878-4 14808-60-7	01-2119475104-44 2-(2-butoxyethoxy)ethanol Eye Irrit. 2 H319 Quarz (SiO2) Substance with a common (EC) occupational exposure limit value.	1 - 5
220-120-9 2634-33-5 613-088-00-6	1,2-benzisothiazol-3(2H)-one Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 Specific concentration limit (SCL): Skin Sens. 1 H317 >= 0.05	0.01 - 0.05
55965-84-9 613-167-00-5	reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1) Acute Tox. 2 H330 / Acute Tox. 2 H310 / Acute Tox. 3 H301 / Skin Corr. 1C H314 / Eye Dam. 1 H318 / Skin Sens. 1A H317 / Aquatic Acute 1 H400 (M = 100) / Aquatic Chronic 1 H410 (M = 100) / EUH071 Specific concentration limit (SCL): Skin Corr. 1C H314 >= 0.6 / Skin Irrit. 2 H315 >= 0.06 / Eye Dam. 1 H318 >= 0.6 / Eye Irrit. 2 H319 >= 0.06 / Skin Sens. 1A H317 >= 0.0015	0.001 - 0.005

Additional information

Full text of H-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

Following ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

Unsuitable extinguishing media

strong water jet

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5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

6.3. Methods and material for containment and cleaning up

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

6.4. Reference to other sections

Observe protective provisions (see section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Avoid contact with skin, eyes and clothes. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from strongly acidic and alkaline materials as well as oxidizers.

Further information on storage conditions

Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Keep container tightly closed. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values:

2-(2-butoxyethoxy)ethanol

Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

WEL, TWA: 67.5 mg/m³; 10 ppm

WEL, STEL: 101.2 mg/m³; 15 ppm

Quarz (SiO₂)

EC No. 238-878-4 / CAS No. 14808-60-7

WEL, TWA: 0.1 mg/m³

Remark: (Silica, crystalline; respirable fraction)

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

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2-(2-butoxyethoxy)ethanol

Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

DNEL long-term oral (repeated), Workers: 1,25 mg/kg
DNEL long-term dermal (systemic), Workers: 20 mg/kg bw/day
DNEL acute inhalative (local), Workers: 101,2 mg/m³
DNEL long-term inhalative (local), Workers: 67,5 mg/m³
DNEL long-term inhalative (systemic), Workers: 67,5 mg/m³
DNEL long-term dermal (systemic), Consumer: 10 mg/kg bw/day
DNEL acute inhalative (local), Consumer: 7,5 mg/m³
DNEL long-term inhalative (local), Consumer: 34 mg/m³
DNEL long-term inhalative (systemic), Consumer: 34 mg/m³

PNEC:

2-(2-butoxyethoxy)ethanol

Index No. 603-096-00-8 / EC No. 203-961-6 / CAS No. 112-34-5

PNEC aquatic, freshwater: 1 mg/L
PNEC aquatic, marine water: 0,1 mg/L
PNEC aquatic, intermittent release: 3,9 mg/L
PNEC sediment, freshwater: 4,4 mg/kg
PNEC sediment, marine water: 0,44 mg/kg
PNEC, soil: 0,32 mg/kg dw
PNEC sewage treatment plant (STP): 200 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction.

Personal protection equipment

Respiratory protection

Not applicable.

Hand protection

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)

Thickness of the glove material 0,4 mm Breakthrough time: 30 min

Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin: Recommended glove articles EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

Wear suitable protective clothing and gloves.

Protective measures

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

Environmental exposure controls

Do not allow to enter into surface water or drains. See section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	refer to label
Odour:	characteristic
Odour threshold:	not applicable
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	100 °C Source: PH EN 501166 GEFBEZ@tr4000
Flammability	not applicable
Lower and upper explosion limit:	
Lower explosion limit:	0.8 Vol-%

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Upper explosion limit:	not applicable
Flash point:	not applicable
Auto-ignition temperature:	225 °C Source: 2-(2-butoxyethoxy)ethanol
Decomposition temperature:	not applicable
pH at 20 °C:	not applicable
Cinematic viscosity (40°C):	> 700 mm²/s
Viscosity at 20 °C:	1850 - 2350 mPas
Solubility(ies):	
Water solubility at 20 °C:	partially soluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	23 mbar Source: PH EN 501166 GEFBEZ@tr4000
Density and/or relative density:	
Density at 20 °C:	1.30 g/cm³
Relative vapour density:	not applicable
particle characteristics:	not applicable
9.2. Other information	
Solid content:	52 weight-%
solvent content:	
Organic solvents:	4 weight-%
Water:	44 weight-%

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7.

10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

10.4. Conditions to avoid

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to section 7. Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

not applicable

10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

2-(2-butoxyethoxy)ethanol

oral, LD50, Rat: > 200 mg/kg

dermal, LD50, Rabbit: 2764 mg/kg

Method: OECD 402

oral, Mouse: 2410 mg/kg

Method: OECD 401

inhalative (dust and mist), LC50, Rat: 29 ppm (2 h)

Method: OECD 403

No mortality within the stated exposure time in animal studies.

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Skin corrosion/irritation; Serious eye damage/eye irritation

2-(2-butoxyethoxy)ethanol

Skin (4 h)

Method: OECD 404

No skin irritation

eyes

Method: OECD 405

Irritating to eyes.

Respiratory or skin sensitisation

2-(2-butoxyethoxy)ethanol

Skin, Guinea pig: ; Evaluation not sensitising.

Method: OECD 406

Maximization test; dermal

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2-(2-butoxyethoxy)ethanol

Germ cell mutagenicity; Evaluation Did not show any mutagenic effects in animal experiments.

Tests with bacterial or mammalian cell cultures showed no evidence of mutagenic activity.

Carcinogenicity; Evaluation The chemical structure does not give rise to any particular suspicion of a carcinogenic effect.

Reproductive toxicity; Evaluation No effect on fertility in animal studies.

analogy

teratogenicity; Evaluation Did not show any fruit-damaging effect in animal experiments.

STOT-single exposure; STOT-repeated exposure

2-(2-butoxyethoxy)ethanol

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure) Evaluation Based on available data, the classification criteria are not met.

Continued skin contact may cause skin degreasing and dermatitis.

Aspiration hazard

2-(2-butoxyethoxy)ethanol

Aspiration hazard

not applicable

Experiences with human exposure.

Chronic exposure damages the brain and the central nervous system.

Practical experience/human evidence

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

Overall assessment on CMR properties

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

11.2. Information on other hazards

Endocrine disrupting properties

No information available.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

Do not allow to enter into surface water or drains.

12.1. Toxicity

2-(2-butoxyethoxy)ethanol

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): > 100 mg/L (96 h)

Static test

Daphnia toxicity, EC50, *Daphnia magna*: > 100 mg/L (48 h)

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Static test; Directive 67/548/EEC, Annex V, C.2 ; The statement about the toxic effects refers to the nominal concentration level.

Fish toxicity, LC50, *Lepomis macrochirus* (Bluegill): 1300 mg/L (96 h)

Method: OECD 203

Static test; The statement about the toxic effects refers to the nominal concentration level.

Algae toxicity, EC50, *Scenedesmus subspicatus*: > 100 mg/L (96 h)

Method: OECD 201

Static test; The statement about the toxic effects refers to the nominal concentration level.

Bacterial toxicity, EC10, Activated sludge: > 1995 mg/L (30 min)

Method: OECD 209

The statement about the toxic effects refers to the nominal concentration level.

Long-term Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

2-(2-butoxyethoxy)ethanol

Persistence and degradability:

No data available

Biodegradation: > 70 % (28 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301E

aerobic; activated sludge; 10 mg/l

Biodegradation: > 100 % (28 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 302B

aerobic; activated sludge; 500 mg/l

Biodegradation: 80 - 90 %; Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301C

aerobic; mixed inoculum; based on: Theoretical oxygen demand

Biodegradation: 76 % (28 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301D

Biodegradation: 90 - 100 % (8 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 302B

Biodegradation: 90 - 100 % (14 d); Evaluation Readily biodegradable (according to OECD criteria).

Method: OECD 301E

12.3. Bioaccumulative potential

2-(2-butoxyethoxy)ethanol

Distribution coefficient n-octanol/water (log KOW): 1

Method: OECD 117

The product has a low bioaccumulation potential

Bioconcentration factor (BCF)

Toxicological data are not available.

12.4. Mobility in soil

2-(2-butoxyethoxy)ethanol

Water: Evaluation The product is water soluble.

Air: Evaluation The substance does not evaporate from the water surface into the atmosphere.

soil: Evaluation A binding to the solid ground phase is not to be expected.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate disposal / Product

Recommendation

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste

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Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC) or stricter national regulations, if applicable.

15.2. **Chemical Safety Assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
231-944-3 7779-90-0	trizinc bis(orthophosphate)	01-2119485044-40
203-961-6 112-34-5	2-(2-butoxyethoxy)ethanol	01-2119475104-44

SECTION 16: Other information *

Full text of classification in section 3

Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Acute Tox. 2 / H310	Acute toxicity (dermal)	Fatal in contact with skin.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Skin Corr. 1C / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.
Skin Sens. 1A / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]
 Aquatic Chronic 2 Hazardous to the aquatic environment Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic
DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Further information

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The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in section 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

* Data changed compared with the previous version