

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



Article No.: 71027
Print date: 15.04.2024
Version: 1.15

Waterbased Sealer
Revision date: 15.04.2024
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Article No. (manufacturer/supplier) 71027
Trade name/designation Waterbased Sealer

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

Relevant identified uses
one-pack performance coating

1.3. Details of the supplier of the safety data sheet

supplier (manufacturer/importer/downstream user/distributor)

PLANTAG Coatings GmbH
Plantagenweg 34-38 05231/6002-0
32758 Detmold 05231/6002-10
info@plantag.de
www.plantag.de

Department responsible for information:

Product Safety Department 7:30 a.m. - 4:45 p.m. Juliane Damköhler
E-mail (competent person) +49 (0) 5231 / 6002670
Christin Seier
+49 (0) 5231 / 6002673
Ralf Hachmeister
+49 (0) 5231 / 6002671
produktsicherheit@plantag.de

1.4. Emergency telephone number

24-h-number / EMERGENCY Code: +1 872 5888 271 (Contact ID: PCS)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. Label elements

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

Hazard pictograms

Hazard statements

not applicable

Precautionary statements

not applicable

Hazard components for labelling

not applicable

Supplemental hazard information

EUH208 Contains Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1); 1,2-benzisothiazol-3(2H)-one; adipohydrazide. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description Acrylate preparation

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

EC No. **REACH No.**

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CAS No. Index No.	Designation classification: // Remark	weight-%
203-905-0 111-76-2 603-014-00-0	01-2119475108-36 2-butoxyethanol Acute Tox. 3 H331 / Acute Tox. 4 H302 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 Acute toxicity estimate (ATE): ATE (oral): 1200 mg/kg bw / ATE (inhalation, vapour): 3,00 mg/L	5 < 10
213-999-5 1071-93-8	01-2119962900-36 adipohydrazide Skin Sens. 1 H317 / Aquatic Chronic 2 H411	0,1 < 1
220-120-9 2634-33-5 613-088-00-6	01-2120761540-60 1,2-benzisothiazol-3(2H)-one Acute Tox. 4 H302 / Acute Tox. 2 H330 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Skin Sens. 1 H317 / Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 1 H410 (M = 1) Specific concentration limit (SCL): Skin Sens. 1 H317 \geq 0,05 Acute toxicity estimate (ATE): ATE (inhalation, dust/mist): 0,50 mg/L	< 0,1
611-341-5 55965-84-9 613-167-00-5	01-2120764691-48 Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1) Acute Tox. 3 H301 / Acute Tox. 2 H310 / Acute Tox. 2 H330 / Skin Corr. 1B 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. 1B H314 \geq 0,6 / Skin Irrit. 2 H315 \geq 0,06 / Eye Irrit. 2 H319 \geq 0,06 / Skin Sens. 1A H317 \geq 0,0015 / Eye Dam. 1 H318 \geq 0,6 Acute toxicity estimate (ATE): ATE (oral): 64 mg/kg bw / ATE (dermal): 87 mg/kg bw	< 0,1

Additional information

Full text of classification: 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.

Change contaminated, saturated clothing.

Remove affected person from the danger area and lay down.

Do not leave affected person unattended.

In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

In case of irregular breathing or respiratory arrest provide artificial respiration.

Call a physician immediately.

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.

Call a physician immediately.

Wash contaminated clothing prior to re-use.

After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Protect uninjured eye.

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.

Show this safety data sheet to the doctor in attendance.

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Never give anything by mouth to an unconscious person or a person with cramps.
If unconscious but breathing normally, place in recovery position and seek medical advice.

Self-protection of the first aider

No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator.

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.

Symptoms

May irritate eyes.

May irritate skin.

Danger

Self-protection of the first aider

Special treatment

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Unsuitable extinguishing media

strong water jet

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.
In case of fire may be liberated: carbon dioxide, carbon monoxide, smoke.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Cool closed containers that are near the source of the fire.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

In case of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ventilate affected area. Do not breathe vapours.

Avoid contact with eyes and skin.

See protective measures under point 7 and 8.

Keep away from sources of ignition - No smoking.

Handle in accordance with good industrial hygiene and safety practice.

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

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 13: Disposal considerations

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

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containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and after work.

Take off immediately all contaminated clothing.

Remove contaminated clothing and wash it before reuse.

Guarantee that the eye flushing systems and safety showers are closely located to the working place.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden.

Store carefully closed containers upright to prevent any leaks.

Hints on joint storage

Keep away from food, drink and animal feedingstuffs.

Keep away from: Acids, Alkali (Iye), Oxidizing agent, Reducing agent.

Further information on storage conditions

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 15 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden.

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-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

WEL, TWA: 123 mg/m³; 25 ppm

WEL, STEL: 246 mg/m³; 50 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 240 mmol/mol creatinine

Remark: Butoxyacetic acid; urine; end of exposure or end of shift

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

DNEL acute dermal, short-term (systemic), Workers: 89 mg/kg bw/day

DNEL long-term dermal (systemic), Workers: 125 mg/kg bw/day

DNEL acute inhalative (local), Workers: 246 mg/m³

DNEL acute inhalative (systemic), Workers: 1091 mg/m³

DNEL long-term inhalative (systemic), Workers: 98 mg/m³

DNEL short-term oral (acute), Consumer: 13,4 mg/kg

DNEL long-term oral (repeated), Consumer: 3,2 mg/kg

DNEL acute dermal, short-term (systemic), Consumer: 89 mg/kg bw/day

DNEL long-term dermal (systemic), Consumer: 75 mg/kg bw/day

DNEL acute inhalative (local), Consumer: 147 mg/m³

DNEL acute inhalative (systemic), Consumer: 426 mg/m³

DNEL long-term inhalative (systemic), Consumer: 59 mg/m³

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1)

Index No. 613-167-00-5 / EC No. 611-341-5 / CAS No. 55965-84-9

DNEL acute inhalative (local), Workers: 0,04 mg/m³

DNEL long-term inhalative (local), Workers: 0,02 mg/m³

DNEL short-term oral (acute), Consumer: 0,11 mg/kg

DNEL long-term oral (repeated), Consumer: 0,09 mg/kg

DNEL acute inhalative (local), Consumer: 0,04 mg/m³

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DNEL long-term inhalative (local), Consumer: 0,02 mg/m³

1,2-benzisothiazol-3(2H)-one

Index No. 613-088-00-6 / EC No. 220-120-9 / CAS No. 2634-33-5

DNEL long-term dermal (systemic), Workers: 0,966 mg/kg bw/day

DNEL long-term inhalative (systemic), Workers: 6,81 mg/m³

DNEL long-term dermal (systemic), Consumer: 0,345 mg/kg bw/day

DNEL long-term inhalative (systemic), Consumer: 1,2 mg/m³

PNEC:

2-butoxyethanol

Index No. 603-014-00-0 / EC No. 203-905-0 / CAS No. 111-76-2

PNEC aquatic, freshwater: 8,8 mg/L

PNEC aquatic, marine water: 0,88 mg/L

PNEC aquatic, intermittent release: 26,4 mg/L

PNEC sediment, freshwater: 34,6 mg/kg

PNEC sediment, marine water: 3,46 mg/kg

PNEC, soil: 2,33 mg/kg

PNEC sewage treatment plant (STP): 463 mg/L

PNEC Secondary Poisoning: 20 mg/kg

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1)

Index No. 613-167-00-5 / EC No. 611-341-5 / CAS No. 55965-84-9

PNEC aquatic, freshwater: 0,0034 mg/L

PNEC aquatic, marine water: 0,0034 mg/L

PNEC aquatic, intermittent release: 0,0034 mg/L

PNEC sediment, freshwater: 0,027 mg/kg

PNEC sediment, marine water: 0,027 mg/kg

PNEC sewage treatment plant (STP): 0,23 mg/L

1,2-benzisothiazol-3(2H)-one

Index No. 613-088-00-6 / EC No. 220-120-9 / CAS No. 2634-33-5

PNEC aquatic, freshwater: 0,004 mg/L

PNEC aquatic, marine water: 0,0004 mg/L

PNEC aquatic, intermittent release: 0,0011 mg/L

PNEC sediment, freshwater: 0,0499 mg/kg

PNEC sediment, marine water: 0,0049 mg/kg

PNEC, soil: 3 mg/kg

PNEC sewage treatment plant (STP): 1,03 mg/L

8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

Personal protection equipment

Respiratory protection

If the pollutant concentration is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used.

Use only respiratory protection equipment with CE-symbol including four digit test number.

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: > 480 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 eye glasses with side protection according to EN 166.

Do not wear contact lenses.

Body protection

Wear suitable protective clothing.

Protective measures

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

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Handle in accordance with good industrial hygiene and safety practice.
Wear suitable protective clothing.
When using do not eat, drink or smoke.
Keep away from food, drink and animal feedingstuffs.
Guarantee that the eye flushing systems and safety showers are closely located to the working place.
Avoid contact with skin, eyes and clothes.
Remove contaminated clothing and wash it before reuse.

Environmental exposure controls

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.
See section 7. No additional measures necessary.
If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	colourless
Odour:	mild
Odour threshold:	not determined
Melting point/freezing point:	not applicable
Initial boiling point and boiling range:	100 °C Source: Water
Flammability:	not applicable
Lower and upper explosion limit:	
Lower explosion limit:	1,1 Vol-% Source: 2-butoxyethanol
Upper explosion limit:	10,6 Vol-% Source: 2-butoxyethanol
Flash point:	> 60 °C Method: ASTM D 7094a
Auto-ignition temperature:	240 °C Source: 2-butoxyethanol
Decomposition temperature:	not determined
pH at 20 °C:	7 - 7,7 / 100,0 weight-%
Cinematic viscosity (40°C):	< 135 mm²/s
Viscosity at °C:	27 - 32 s 4mm
Solubility(ies):	
Water solubility at 20 °C:	easily soluble
Partition coefficient: n-octanol/water:	see section 12
Vapour pressure at 20 °C:	23 mbar Source: Water
Density and/or relative density:	
Density at 20 °C:	1,02 g/cm³
Relative vapour density:	not determined
particle characteristics:	not applicable

9.2. Other information

Solid content:	43,33 weight-%
solvent content:	
Organic solvents:	6,62 weight-%
Water:	50,05 weight-%

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SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

Further remarks: SECTION 7: Handling and storage

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

10.5. Incompatible materials

Oxidizing agent, Reducing agent, Acids, Alkali (lye)

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

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

Acute toxicity

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oral, LD50, Rat: > 5000 mg/kg

By analogy.

2-butoxyethanol

oral, LD50, Rat: 1200 mg/kg

dermal, LD50, Rat: 2000 mg/kg

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1)

oral, LD50, Rat: 64 mg/kg

Method: OECD 401

dermal, LD50, Rat: 141 mg/kg

dermal, LD50, Rabbit: 87,12 mg/kg

inhalative (dust and mist), LC50, Rat: 0,33 mg/L (4 h)

1,2-benzisothiazol-3(2H)-one

oral, LD50, Rat: 490 - 670 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

inhalative (dust and mist), LC50, Rat: 0,5 mg/L (4 h)

adipohydrazide

oral, LD50, Rat: > 2000 mg/kg

inhalative (dust and mist), LC50, Rat: > 5,3 mg/L (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

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Skin, Rabbit

Method: OECD 404

non-irritant.; By analogy.

eyes, Rabbit

Method: OECD 405

non-irritant.; By analogy.

2-butoxyethanol

Skin, Rabbit

Irritant

eyes, Rabbit (24 h)

Method: OECD 405

Irritant

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Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1)

Skin, Rabbit

Method: OECD 404

Causes burns.

eyes, Rabbit

Risk of serious damage to eyes.

1,2-benzisothiazol-3(2H)-one

Skin, Rabbit (4 h)

Irritating to skin.

eyes, Rabbit

Risk of serious damage to eyes.

adipohydrazide

Skin, Rabbit

non-irritant.

eyes, Rabbit

non-irritant.

Respiratory or skin sensitisation

2-butoxyethanol

Skin, Guinea pig:

Method: OECD 406

not sensitising.

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1)

Skin, Guinea pig:

Method: OECD 406

Sensitising

1,2-benzisothiazol-3(2H)-one

Skin, Guinea pig:

Method: Regulation (EC) No. 440/2008, Annex B.6 (Maximisation test)

sensitising

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1)

Germ cell mutagenicity

Ames test negative.

1,2-benzisothiazol-3(2H)-one

Germ cell mutagenicity

Ames test negative.

STOT-single exposure; STOT-repeated exposure

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

Aspiration hazard

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

Practical experience/human evidence

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]

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

12.1. Toxicity

*

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2-butoxyethanol

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 1474 mg/L (96 h)

Method: OECD 203

Daphnia toxicity, EC50, Daphnia magna: 1550 mg/L (48 h)

Method: OECD 202

Algae toxicity, ErC50, Pseudokirchneriella subcapitata 911 - 1840 mg/L (72 h)

Method: OECD 201

1,2-benzisothiazol-3(2H)-one

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 0,15 mg/L (72 h)

Long-term Ecotoxicity

Toxicological data are not available.

12.2. Persistence and degradability

2-butoxyethanol

Biodegradation: 90,4 % (28 d)

1,2-benzisothiazol-3(2H)-one

Biodegradation: 25 % (28 d)

Method: OECD 301B

12.3. Bioaccumulative potential

2-butoxyethanol

Partition coefficient: n-octanol/water: 0,81

Bioconcentration factor (BCF)

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7], and 2-methyl-2H -isothiazol-3-one [ECno. 220-239-6] (3:1)

Bioconcentration factor (BCF): 3,16

12.4. Mobility in soil

Toxicological data are not available.

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 disposal according to directive 2008/98/EC, covering waste and dangerous waste.

Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

Do not dispose of with domestic refuse.

List of proposed waste codes/waste designations in accordance with EWC

080112 waste paint and varnish other than those mentioned in 08 01 11

Appropriate disposal / Package Recommendation

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

SECTION 14: Transport information

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

No dangerous good in sense of this transport regulation.

14.1. UN number or ID number

not applicable

14.2. UN proper shipping name

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14.3. **Transport hazard class(es)**
not applicable

14.4. **Packing group**
not applicable

14.5. **Environmental hazards**
Land transport (ADR/RID) not applicable
Marine pollutant not applicable

14.6. **Special precautions for user**
Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.
Advices on safe handling: see parts 6 - 8

Further information

Land transport (ADR/RID)

Tunnel restriction code -

Sea transport (IMDG)

EmS-No. not applicable

14.7. **Maritime transport in bulk according to IMO instruments**

No transport as bulk according IBC - Code.

SECTION 15: Regulatory information

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

EU legislation

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive]

VOC-value (in g/L): 68,638

National regulations

Restrictions of occupation

15.2. **Chemical Safety Assessment**

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

SECTION 16: Other information

Full text of classification in section 3:

Acute Tox. 3 / H331	Acute toxicity (inhalative)	Toxic if inhaled.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Acute Tox. 2 / H330	Acute toxicity (inhalative)	Fatal if inhaled.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
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.
Acute Tox. 3 / H301	Acute toxicity (oral)	Toxic if swallowed.
Acute Tox. 2 / H310	Acute toxicity (dermal)	Fatal in contact with skin.
Skin Corr. 1B / 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.

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

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



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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

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

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