

Safety Data Sheet

WATERSTAIN

Safety Data Sheet dated 27/2/2018, edition 3, version 4

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

1.1. Product identifier

Mixture identification:

Trade name:

2800-01 WSTAIN BLACK - 250 ML, 2800-02 WSTAIN DKBROWN - 250 ML, 2800-03 WSTAIN MDBROWN - 250 ML, 2800-04 WSTAIN LTBROWN - 250 ML, 2800-05 WSTAIN TAN - 250 ML, 2800-06 WSTAIN BORDEAUX - 250 ML, 2800-07 WSTAIN BLUE - 250 ML, 2800-08 WSTAIN GREEN - 250 ML, 2800-09 WSTAIN RED - 250 ML, 2800-10 WSTAIN YELLOW - 250 ML, 2800-11 WSTAIN FUCHSIA - 250 ML, 2800-12 WSTAIN CRIMSON - 250 ML, 2800-13 WSTAIN ORANGE - 250 ML, 2800-14 WSTAIN OLIVE GREEN - 250 ML, 2800-15 WSTAIN SEA FOAM - 250 ML, 2800-16 WSTAIN TURQUOISE - 250 ML, 2800-17 WSTAIN NAVY BLUE - 250 ML, 2800-18 WSTAIN PURPLE - 250 ML, 2800-19 WSTAIN SLATE GREY - 250 ML, 2800-20 WSTAIN DESERT SAND - 250 ML

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

Recommended use:

Mixtures/Substance for the industrial and/or professional finishing for leather and shoes.

Uses advised against:

Stick to the recommended use.

1.3. Details of the supplier of the safety data sheet

Supplier:

FENICE S.p.A. - V. del Lavoro,1 - 36078 Valdagno (VI) Italy

FENICE S.p.A. - Tel. +39.0445.424.888

Competent person responsible for the safety data sheet:

ufficio.sicurezza@fenice.com

1.4. Emergency telephone number

FENICE S.p.A. - Tel. +39.0445.424.888 (8:00-12:00; 14:00-17:30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not available

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:


14% - 33% (2-methoxymethylethoxy)propanol


REACH No.: 01-2119450011-60, CAS: 34590-94-8, EC: 252-104-2

Substance with a Union workplace exposure limit.

2% - 18% 1-methoxy-2-propanol

REACH No.: 01-2119457435-35, Index number: 603-064-00-3, CAS: 107-98-2, EC: 203-539-1

 2.6/3 Flam. Liq. 3 H226

 3.8/3 STOT SE 3 H336


<10% 2-(2-butoxyethoxy)ethanol


REACH No.: 01-2119475104-44, Index number: 603-096-00-8, CAS: 112-34-5, EC: 203-961-6

 3.3/2 Eye Irrit. 2 H319

1% - 3% ethanol


REACH No.: 01-2119457610-43, Index number: 603-002-00-5, CAS: 64-17-5, EC: 200-578-6

 2.6/2 Flam. Liq. 2 H225

 3.3/2 Eye Irrit. 2 H319

1% - 3% Hydrocarbons, C11-C14, isoalkanes, cyclics, <2% aromatics

REACH No.: 01-2119480162-45, EC: 927-285-2


 3.10/1 Asp. Tox. 1 H304


EUH066


0.01% - 0.05% 1,2-benzisothiazol-3(2H)-one

Index number: 613-088-00-6, CAS: 2634-33-5, EC: 220-120-9

 3.2/2 Skin Irrit. 2 H315

 3.3/1 Eye Dam. 1 H318

 3.4.2/1-1A-1B Skin Sens. 1,1A,1B H317

 4.1/A1 Aquatic Acute 1 H400

 3.1/4/Oral Acute Tox. 4 H302

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash the affected parts with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

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

In case of respiratory problems, medical care is needed.

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

None

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO₂, foam, dry extinguishers, nebulised water.

Extinguishing media which must not be used for safety reasons:

Do not use jets of water as it can cause the spread of fire.

Water can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion.

Do not inhale combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

EQUIPMENT

Fire fighting clothing i. e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure air breathing apparatus (BN EN 137).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: inert absorbing material.

6.3. Methods and material for containment and cleaning up

Stop the leak or spill if this is not a risk. Use inert absorbent material to surround the contaminated area.

Collect the product wearing, if necessary, appropriate protective equipment for a possible recovering or for disposal. Dispose in line with current laws and norms. Do not pour into drains.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not eat or drink while working. Do not smoke.

Avoid contact with skin and eyes, inhalation of vapours and mists.

Avoid contemporary handling of any incompatible materials (see section 10).

Don't use empty container before they have been cleaned.

Wash hands thoroughly after shift.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place at a temperature between +5/40°C.

Keep away from food, drink and feed.

Incompatible materials:

None in particular. See also section 10.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

None in particular, except those listed in paragraph 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Source: GESTIS International Limit Values Database

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

TLV-ACGIH - TWA: 606 mg/m³, 100 ppm - STEL: 909 mg/m³, 150 ppm

ACGIH - TWA(8h): 100 ppm - STEL: 150 ppm - Notes: Skin - Eye and URT irr, CNS impair

EU - TWA(8h): 308 mg/m³, 50 ppm - Notes: Skin

Deutschaland (AGS) - TWA: 310 mg/m³, 50 ppm - STEL(): 310 mg/m³, 50 ppm - Notes: Inhalable aerosol and vapour

Deutschaland (DFG) - TWA: 310 mg/m³, 50 ppm - STEL(): 310 mg/m³, 50 ppm - Notes: Inhalable aerosol and vapour

España - TWA: 308 mg/m³, 50 ppm

France - TWA: 308 mg/m³, 50 ppm - Behaviour: Binding

Italia - TWA: 308 mg/m³, 50 ppm

Nederland - TWA: 300 mg/m³

Österreich - TWA: 307 mg/m³, 50 ppm - STEL: 614 mg/m³, 100 ppm - Notes: TWA = MAK Langzeitwert STEL = Kurzzeitwert

Polska - TWA: 240 mg/m³ - STEL: 280 mg/m³

Sverige - TWA: 300 mg/m³, 50 ppm - STEL(): 450 mg/m³, 75 ppm

Türkiye - TWA: 308 mg/m³, 50 ppm

United Kingdom - TWA: 308 mg/m³, 50 ppm

1-methoxy-2-propanol - CAS: 107-98-2

ACGIH - TWA(8h): 50 ppm - STEL: 100 ppm - Notes: A4 - Eye and URT irr

TLV-ACGIH - TWA: 184 mg/m³, 50 ppm - STEL: 368 mg/m³, 100 ppm

EU - TWA(8h): 375 mg/m³, 100 ppm - STEL: 563 mg/m³, 150 ppm - Notes: Skin

Deutschaland (AGS) - TWA: 370 mg/m³, 100 ppm - STEL(): 740 mg/m³, 200 ppm

Deutschaland (DFG) - TWA: 370 mg/m³, 100 ppm - STEL: 740 mg/m³, 200 ppm

España - TWA: 375 mg/m³, 100 ppm - STEL: 568 mg/m³, 150 ppm - Notes: Skin

France - TWA: 188 mg/m³, 50 ppm - STEL: 375 mg/m³, 100 ppm - Behaviour: Binding

Italia - TWA: 375 mg/m³, 100 ppm - STEL: 568 mg/m³, 150 ppm - Notes: Skin

Nederland - TWA: 375 mg/m³ - STEL: 563 mg/m³

Österreich - TWA: 187 mg/m³, 50 ppm - STEL: 187 mg/m³, 50 ppm - Notes: TWA = MAK Langzeitwert STEL = Kurzzeitwert

Sverige - TWA: 190 mg/m³, 50 ppm - STEL(): 568 mg/m³, 150 ppm

Türkiye - TWA: 375 mg/m³, 100 ppm - STEL(): 568 mg/m³, 150 ppm

United Kingdom - TWA: 375 mg/m³, 100 ppm - STEL: 560 mg/m³, 150 ppm

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

ACGIH - TWA(8h): 10 ppm - Notes: (IFV) - Hematologic, liver and kidney eff

TLV-ACGIH - TWA: 66 mg/m³, 10 ppm

EU - TWA(8h): 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm

Deutschaland (AGS) - TWA: 67 mg/m³, 10 ppm - STEL: 100 mg/m³, 15 ppm - Notes: Inhalable aerosol and vapour

Deutschaland (DFG) - TWA: 67 mg/m³, 10 ppm - STEL: 100.5 mg/m³, 15 ppm - Notes: Inhalable fraction and vapour

España - TWA: 68 mg/m³, 10 ppm - STEL: 101 mg/m³, 15 ppm

France - TWA: 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm - Behaviour: Indicative

Italia - TWA: 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm

Nederland - TWA: 50 mg/m³ - STEL: 100 mg/m³

Österreich - TWA: 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm - Notes: TWA = MAK Langzeitwert STEL = Kurzzeitwert

Polska - TWA: 67 mg/m³ - STEL: 100 mg/m³

Sverige - TWA: 68 mg/m³, 10 ppm - STEL: 101 mg/m³, 15 ppm

Türkiye - TWA: 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm

United Kingdom - TWA: 67.5 mg/m³, 10 ppm - STEL: 101.2 mg/m³, 15 ppm

ethanol - CAS: 64-17-5

ACGIH - STEL: 1000 ppm - Notes: A3 - URT irr

TLV-ACGIH - STEL: 1884 mg/m³, 1000 ppm

Deutschaland (AGS) - TWA: 960 mg/m³, 500 ppm - STEL(): 1920 mg/m³, 1000 ppm

Deutschaland (DFG) - TWA: 960 mg/m³, 500 ppm - STEL(): 1920 mg/m³, 1000 ppm

España - STEL: 1910 mg/m³, 1000 ppm

France - TWA: 1900 mg/m³, 1000 ppm - STEL: 9500 mg/m³, 5000 ppm

Nederland - TWA: 260 mg/m³ - STEL: 1900 mg/m³

Österreich - TWA: 1900 mg/m³, 1000 ppm - STEL: 3800 mg/m³, 2000 ppm - Notes: TWA = MAK Langzeitwert STEL = Kurzzeitwert

Polska - TWA: 1900 mg/m³

Sverige - TWA: 1000 mg/m³, 500 ppm - STEL(): 1900 mg/m³, 1000 ppm

United Kingdom - TWA: 1920 mg/m³, 1000 ppm

Legal base:

TLV-ACGIH: ACGIH 2014 and updates

UE European Union: Directive 2000/39/CE**

Deutschland (AGS): Technische Regeln für Gefahrstoffe, Arbeitsplatzgrenzwerte, TRGS 900**
 Deutschland (DFG): MAK-und BAT-Werte-Liste 2012**
 España: INSHT Limites de exposición profesional para agentes químicos en España 2015**
 France: Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984. INRS (2006)**
 Italia: Decreto Ministeriale 26/02/2004**
 Nederland: Nationale wettelijke publieke grenswaarden**
 Österreich: Grenzwertverordnung 2003 - GVK 2003**
 Sverige: Occupational Exposure Limit Values, Statute Book of the Swedish Work Environment Authority, AFS 2011:18, English Translation**
 United Kingdom: EH40/2005 Workplace exposure limits**

**and updates

DNEL Exposure Limit Values

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

Consumer: 1.67 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 310 mg/m - Consumer: 37.2 mg/m - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 65 mg/kg - Consumer: 15 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

1-methoxy-2-propanol - CAS: 107-98-2

Consumer: 3.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Industry: 369 mg/m - Consumer: 43.9 mg/m - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 553.5 mg/m - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 50.6 mg/kg - Consumer: 18.1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Consumer: 1.25 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Consumer: 50.6 mg/m - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Industry: 67.5 mg/m - Consumer: 34 mg/m - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Industry: 67.5 mg/m - Consumer: 34 mg/m - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 20 mg/kg - Consumer: 10 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

ethanol - CAS: 64-17-5

Worker Industry: 950 mg/m - Consumer: 114 mg/m - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 343 mg/kg - Consumer: 206 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 87 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

(2-methoxymethylethoxy)propanol - CAS: 34590-94-8

Target: Fresh Water - Value: 19 mg/l

Target: Marine water - Value: 1.9 mg/l

Target: Freshwater sediments - Value: 7.02 mg/kg

Target: Microorganisms in sewage treatments - Value: 4168 mg/l

Target: Soil (agricultural) - Value: 2.74 mg/kg

1-methoxy-2-propanol - CAS: 107-98-2

Target: Fresh Water - Value: 10 mg/l

Target: Freshwater sediments - Value: 52 mg/kg

Target: Marine water - Value: 1 mg/l

Target: Marine water sediments - Value: 5.2 mg/kg

Target: Soil (agricultural) - Value: 4.59 mg/kg

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

Target: Fresh Water - Value: 1 mg/l

Target: Marine water - Value: 0.1 mg/l

Target: Freshwater sediments - Value: 4 mg/kg

Target: Freshwater sediments - Value: 0.4 mg/kg

Target: Microorganisms in sewage treatments - Value: 200 mg/l

Target: Food chain - Value: 56 mg/kg - Type of hazard: Secondary poisoning

Target: Soil (agricultural) - Value: 0.4 mg/kg

ethanol - CAS: 64-17-5

Target: Fresh Water - Value: 0.96 mg/l

Target: Marine water - Value: 0.79 mg/l

Target: Freshwater sediments - Value: 3.6 mg/kg

Target: Marine water sediments - Value: 2.9 mg/kg

Target: Microorganisms in sewage treatments - Value: 580 mg/l

Target: Food chain - Value: 0.72 g/kg - Type of hazard: Secondary poisoning

Target: Soil (agricultural) - Value: 0.63 mg/kg

Biological Exposure Index

1-methoxy-2-propanol - CAS: 107-98-2

Value: 15 mg/L - medium: Urine - Biological Indicator: Propyleneglycol 1-methyl ether - Sampling Period: End of turn

8.2. Exposure controls

As the adoption of adequate preventive measures must always take priority over personal protective equipment, make sure that:

- in case of inhalation exposure limit values, the workplace is well ventilated through an effective local aspiration system or other technical equipment, in order to maintain airborne levels below the exposure limits values
- if inhalation exposure limit values are not applicable, a good general ventilation is generally sufficient for most operations
- an emergency shower with face and eye wash station is available
- personal protective equipment is CE marked, in compliance with applicable standards

Individual protection measures

Use in well-ventilated areas. Do not breathe vapours. Do not get in eyes and on skin.

Adopt a correct personal hygiene. Do not consume or store food in the work areas.

Wash hands before smoking or eating.

Eye protection:

Use eye protecting goggles suitable to chemical risks.

Protection for skin:

Use clothing that provides comprehensive protection to the skin.

Protection for hands:

Use protective gloves (EN 374)

Respiratory protection:

In case of inadequate ventilation, prolonged exposure or mists/vapours/aerosol exposure (eg. spray application) use a respiratory protective equipment (eg. full face mask according to the DIN EN 136 standard with A Filter for organic gases and vapours according to DIN EN 141).

Thermal Hazards:

None

Environmental exposure controls:

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	fluid		
	various	UNI EN ISO 15528:2003 (3.11+6.7)/UNI EN ISO 1513:1996	--
Odour:	characteristic	--	--
Odour threshold:	Not available	--	--
pH:	8 ± 1 (1:10)	UNI EN 1245:2011	--
Melting point / freezing point:	<0 °C	Expert judgement	--
Initial boiling point and boiling range:	>100 °C	Expert judgement	--
Flash point:	>65 °C	Expert judgement	--
Evaporation rate:	Not Relevant*	--	--
Solid/gas flammability:	Not Relevant*	--	--
Upper/lower flammability or explosive limits:	Not Relevant*	--	--
Vapour pressure:	Not Relevant*	--	--
Vapour density:	Not Relevant*	--	--
Relative density:	1 ± 0.05 g/cm3	UNI EN ISO 2811-1	--
Solubility in water:	miscible	(1:10) water	--
Solubility in oil:	miscible in glycolethers	Expert judgement	--
Partition coefficient (n-octanol/water):	Not Relevant*	--	--
Auto-ignition temperature:	Not Relevant*	--	--
Decomposition temperature:	Not Relevant*	--	--
Viscosity:	Not available	--	--
Explosive properties:	Not Relevant*	--	--
Oxidizing properties:	Not Relevant*	--	--

*Data not applicable or not relevant due to the nature of the product and / or on account of its chemical composition.

9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	Not available	--	--
Fat Solubility:	Not available	--	--
Conductivity:	Not available	--	--

Substance Groups relevant properties	Not available	--	--
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*Data not applicable or not relevant due to the nature of the product and / or on account of its chemical composition.

VOC total content: 30-55%

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None in particular in the normal conditions of use.

10.4. Conditions to avoid

The product is stable under normal storage/use conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

May produce toxic and noxious fumes in case of fire.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

Further information

Inhalation: may cause drowsiness and headaches.

The product may cause allergic reactions in sensitive persons.

Toxicological information of the product:

WATERSTAIN NON PERICOLOSI CON COV \geq 30%

a) acute toxicity

Not classified

Based on available data, the classification criteria are not met

b) skin corrosion/irritation

Not classified

Based on available data, the classification criteria are not met

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

Not classified

Based on available data, the classification criteria are not met

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

1-methoxy-2-propanol - CAS: 107-98-2

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5300 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit = 13000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 54.6 mg/l - Duration: 4h

2-(2-butoxyethoxy)ethanol - CAS: 112-34-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

ethanol - CAS: 64-17-5

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive - Notes: Dossier IUCLID: Specific Concentration Limit = > 50%

1,2-benzisothiazol-3(2H)-one - CAS: 2634-33-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 670 mg/kg

Further information

No one in particular.

SECTION 12: Ecological information

12.1. Toxicity

Adopt sound working practices, so that the product is not released into the environment.

WATERSTAIN NON PERICOLOSI CON COV >=30%

Not classified for environmental hazards

Based on available data, the classification criteria are not met

1,2-benzisothiazol-3(2H)-one - CAS: 2634-33-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 8 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss (OECD 203)

Endpoint: EC50 - Species: Daphnia = 15 mg/l - Duration h: 48 - Notes: Daphnia magna (OECD 202)

Endpoint: EC50 - Species: Algae = 0.6 mg/l - Duration h: 72 - Notes: Selenastrum Capricornutum (OECD 201)

12.2. Persistence and degradability

None

Not available

12.3. Bioaccumulative potential

Not available

12.4. Mobility in soil

Not available

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

This material is NOT RESTRICTED for transportation (ADR/RID, IMDG, IATA, ICAO).

14.2. UN proper shipping name

Not available

14.3. Transport hazard class(es)

Not available

14.4. Packing group

Not available

14.5. Environmental hazards

Not available

14.6. Special precautions for user

Not available

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

No

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Based on information we have, a Chemical Safety Assessment, if expected, has been carried out for the substances in the mixture by the manufacturer or the importer.

SECTION 16: Other information

Text of phrases referred to under heading 3:

H226 Flammable liquid and vapour.

H336 May cause drowsiness or dizziness.

H319 Causes serious eye irritation.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

EUH066 Repeated exposure may cause skin dryness or cracking.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H302 Harmful if swallowed.

Hazard class and hazard category	Code	Description
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Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1,1A,1B	3.4.2/1-1A-1B	Skin Sensitisation, Category 1,1A,1B
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 9: Physical and chemical properties
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 13: Disposal considerations
SECTION 15: Regulatory information
SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.

Further information

This product must be kept, handled and used in accordance with health and safety regulations, sound industrial practice and conforming to the laws in force.

The workers must have appropriate training on the above.

The information given is based on our present knowledge, at the time of sending the data sheet and only serves for describing the product for security reasons, without guaranteeing specific properties.

Due to the various uses of our product and for factors not dependent on us, no responsibility is accepted for the use of this information. Please keep your records up to date and make this sheet available to all relevant personnel. This safety sheet cancels and substitutes any other previous issue.

Main bibliographic sources:

NIOSH - Registry of toxic effects of chemical substances (1983)

I.N.R.S. - Fiche Toxicologique

ECHA database on registered substances (<http://apps.echa.europa.eu/registered/registered-sub.aspx>)

ECHA Classification and Labelling Inventory (http://echa.europa.eu/clp/c_l_inventory_en.asp)

GESTIS hazardous substances database of German Berufsgenossenschaften

(<http://www.dguv.de/ifa/Gefahrstoffdatenbanken/GESTIS-Stoffdatenbank/index-2.jsp>)

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.

PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.

