

SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : ECOCLEAN
Product code: refer to sales department

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

Emulsifying solvent action cleanser

Sectors of use:

Industrial Manufacturing[SU3], Manufacture of food products[SU4]

Product category:

Washing and Cleaning Products (including solvent based products)

Process categories:

Use in batch and other process (syn- thesis) where opportunity for exposure arises[PROC4], Industrial spraying[PROC7], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B], Application with rollers or brushes [PROC10], Treatment of articles by dipping and pouring [PROC13]

Not recommended uses

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS05

Hazard Class and Category Code(s):
Met. Corr. 1, Skin Corr. 1, Eye Dam. 1

Hazard statement Code(s):
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.

The product can be corrosive to metals
Corrosive product: causes severe skin burns and eye damage.
If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
GHS05 - Danger

Hazard statement Code(s):
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.



Supplemental Hazard statement Code(s):

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

Precautionary statements:

Prevention

P260 - Do not breathe vapours/spray.

P280 - Wear protective gloves/clothing and eye/face protection.

Response

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

Contains:

Sodium metasilicate pentahydrate

Contains (Reg.EC 648/2004):

< 5% phosphates, EDTA and salts thereof

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

2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Do not ingest. Keep out of reach of children.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
2-Butoxyethanol	>= 3< 6%	Acute Tox. 4, H302; Acute Tox. 4, H312; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332 ATE(mix) oral = 615,0 mg/kg ATE(mix) dermal = 405,0 mg/kg ATE(mix) inhal = 2,2mg/l/4 h	603-014-00-0	111-76-2	203-905-0	01-2119475 108-36-XXX X
Sodium metasilicate pentahydrate	>= 2,5 < 4,5%	Met. Corr. 1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318;		10213-79-3	229-912-9	01-2119449 811-37-XXX X

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
		STOT SE 3, H335				
Tetrapotassium pyrophosphate	>= 1,5 < 3,5%	Eye Irrit. 2, H319		7320-34-5	230-785-7	01-2119489 369-18-XXX X
Tetrasodium ethylene diamine tetraacetate	>= 0,5 < 1,5%	Acute Tox. 4, H302; Eye Dam. 1, H318; Acute Tox. 4, H332; STOT RE 2, H373 ATE(mix) oral = 1.780,0 mg/kg ATE(mix) inhal = 11,0mg/l/4 h		64-02-8	200-573-9	01-2119486 762-27-XXX X
1,2-benzisothiazol-3(2H)-one	>= 0 < 0,05%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318; Aquatic Acute 1, H400 Limits: Skin Sens. 1, H317 %C >=0,05; Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE(mix) oral = 1.193,0 mg/kg	613-088-00-6	2634-33-5	220-120-9	

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove any contact lenses. Wash immediately with plenty of water for at least 30/60 minutes, opening the eyelids well. Consult a doctor immediately.

SKIN: Remove contaminated clothing. Take a shower immediately. Consult a doctor immediately.

INGESTION: Give water to drink as much as possible. Consult a doctor immediately. Do not induce vomiting unless expressly authorized by your doctor.

INHALATION: Call a doctor immediately. Bring the subject to fresh air, away from the accident site. If breathing stops, give artificial respiration. Take appropriate precautions for the rescuer.

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

No specific information on symptoms and effects caused by the product is known.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING MEDIA The extinguishing media are the traditional ones: carbon dioxide, foam, powder and nebulized water.

UNSUITABLE EXTINGUISHING MEDIA None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS DUE TO EXPOSURE IN THE EVENT OF FIRE Avoid breathing combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire protection equipment. Collect extinguishing water which must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to the regulations in force. **EQUIPMENT** Normal fire fighting clothing, such as an open circuit compressed air breathing apparatus (EN 137), flame retardant (EN469), flame retardant gloves (EN 659) and firefighter boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Stop the leak if there is no danger. Wear appropriate protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent contamination of the skin, eyes and personal clothing. These indications are valid both for workers involved in the work and for emergency interventions.

6.1.2 For emergency responders:

Eliminate all open flames and possible sources of ignition. Not smoking. Provide adequate ventilation. Evacuate the danger area and, if necessary, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.

If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the authorities.

Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)
Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material or suck it.
Prevent it from entering the sewer system.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

Vacuum the leaked product into a suitable container. Evaluate the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material. Ensure adequate ventilation of the area affected by the loss. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors
Wear protective gloves/clothing and eye/face protection.
In residential areas do not use on large surfaces.
At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Industrial Manufacturing:
Handle with care. Store in a well-ventilated place away from heat sources (7-30 ° C), in the original, well-closed containers.

Manufacture of food products:
Handle with care. Store in a well-ventilated place away from heat sources (7-30 ° C), in the original, well-closed containers.

See the annex exposure scenario.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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Related to contained substances:

2-Butoxyethanol:

Limit value - Eight hours
(mg/m³)/(ppm)

AGW Deutschland: 49/10 pelle
MAK Deutschland: 49/10 pelle
VLA Espana: 98/20 pelle

VLEP France: 49/10 pelle
WEL United Kingdom: 123/25 pelle
TLV Greece: 120/25
AK Magyarország: 98/x
VLEP Italia: 98/20 pelle
RD Lietuva: 50/10 pelle
TLV România: 150/30 pelle
MV Slovenija: 98/20 pelle
OEL EU: 98/20 pelle
TLV-ACGIH: 97/20

Limit value - Short term
(mg/m³)/(ppm)

AGW Deutschland: 196/40 pelle
MAK Deutschland: 98/20 pelle
VLA Espana: 245/50 pelle
VLEP France: 246/50 pelle
WEL United Kingdom: 246/50 pelle
TLV Greece: x/x
AK Magyarország: 246/x
VLEP Italia: 246/50 pelle
RD Lietuva: 100/20 pelle
TLV România: 250/50 pelle
MV Slovenija: 245/50 pelle
OEL EU: 246/50 pelle
TLV-ACGIH: x/x

Tetrapotassium pyrophosphate:
Limit value - Eight hours (mg / m³) / (ppm)

AGW Deutschland: 10 / x inhalable fraction
AGW Deutschland: 3 / x breathable fraction

Limit value - Short term (mg / m³) / (ppm)

AGW Deutschland: x / x
AGW Deutschland: x / x

- Substance: 2-Butoxyethanol
DNEL

Systemic effects Long term Workers inhalation = 98 (mg/m³)
Systemic effects Long term Workers dermal = 125 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 59 (mg/m³)
Systemic effects Long term Consumers dermal = 75 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 6,3 (mg/kg bw/day)
Systemic effects Short term Workers inhalation = 1091 (mg/m³)
Systemic effects Short term Workers dermal = 89 (mg/kg bw/day)
Systemic effects Short term Consumers inhalation = 49 (mg/m³)
Systemic effects Short term Consumers dermal = 89 (mg/kg bw/day)
Systemic effects Short term Consumers oral = 26,7 (mg/kg bw/day)
Local effects Short term Workers inhalation = 246 (mg/m³)
Local effects Short term Consumers inhalation = 426 (mg/m³)
PNEC
Sweet water = 8,8 (mg/l)

sediment Sweet water = 34,6 (mg/kg/sediment)
Sea water = 0,88 (mg/l)
sediment Sea water = 3,46 (mg/kg/sediment)
intermittent emissions = 9,1 (mg/l)
STP = 463 (mg/l)
ground = 3,13 (mg/kg ground)

- Substance: Sodium metasilicate pentahydrate

DNEL

Systemic effects Long term Workers inhalation = 6,22 (mg/m³)
Systemic effects Long term Workers dermal = 1,49 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,55 (mg/m³)
Systemic effects Long term Consumers dermal = 0,74 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 0,74 (mg/kg bw/day)

PNEC

Sweet water = 7,5 (mg/l)
Sea water = 1 (mg/l)
STP = 7,5 (mg/l)
ground = 1000 (mg/kg ground)

- Substance: Tetrapotassium pyrophosphate

DNEL

Systemic effects Long term Workers inhalation = 17,63 (mg/m³)
Systemic effects Long term Consumers inhalation = 4,35 (mg/m³)

PNEC

Sweet water = 0,05 (mg/l)
Sea water = 0,005 (mg/l)
intermittent emissions = 0,5 (mg/l)
STP = 50 (mg/l)

- Substance: Tetrasodium ethylene diamine tetraacetate

DNEL

Systemic effects Long term Workers inhalation = 1,5 (mg/m³)

PNEC

Sweet water = 2,86 (mg/l)
Sea water = 0,286 (mg/l)
intermittent emissions = 1,56 (mg/l)
STP = 55,94 (mg/l)
ground = 0,937 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:

Industrial Manufacturing:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3) or other protective equipment, according to the instructions of the employer

(ii) Other

When handling the pure product, wear full protective clothing (generic workwear / antacid, safety shoes S3-EN ISO 20345) or other protective equipment, according to the instructions of the employer

(c) Respiratory protection

Not needed for normal use.

If the threshold value (eg TLV-TWA) of the substance or one or more of the substances present in the product, it is recommended to wear a mask with a type A filter whose class (1, 2 or 3) must be chosen in relation to the limit concentration of use. (ref. standard EN 14387). In case there are gases or vapors of nature different types and / or gases or vapors with particles (aerosols, fumes, mists, etc.) combined filters must be provided, unless various provisions by the employer and / or by evaluations of environmental hygiene investigations

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	clear liquid	
Colour	fluorescent yellow	
Odour	not determined as it is considered not relevant for the characterization of the product	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
pH	13.5 ± 0.5 (20 ° C); 12.0 ± 0.5 (10% sol.; 20 ° C)	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	
Evaporation rate	not determined as it is considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as it is considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as it is considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Vapour density	not determined as it is considered not relevant for the characterization of the product	
Relative density	1,05 ± 0,05 (20 ° C)	
Solubility	in water	
Water solubility	miscible in all proportions	
Partition coefficient: n-octanol/water	not determined as it is considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
Viscosity	not determined as it is considered not relevant for the characterization of the product	
Explosive properties	not determined as it is considered not relevant for the characterization of the product	
Oxidising properties	not determined as it is considered not relevant for the characterization of the product	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

2-BUTOXYETHANOL Decomposes due to heat.

PENTAHYDRATE SODIUM METASILICATE Aqueous solutions behave as: strong bases. Corrode: aluminum, zinc, tin, aluminum alloys, zinc alloys, tin alloys.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

In normal use and storage conditions dangerous reactions are not predictable.

2-BUTOXYETHANOL Can react dangerously with: aluminum, oxidizing agents. Peroxide form with: air.

PENTAHYDRATE SODIUM METASILICATE Reacts violently with: acids.

10.4. Conditions to avoid

Avoid overheating.

10.5. Incompatible materials

Strong reducing agents and oxidants, strong bases and acids, high temperature materials.

10.6. Hazardous decomposition products

2-BUTOXYETHANOL
Can develop: hydrogen.

SECTION 11. Toxicological information

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

ATE(mix) oral = >2000 mg/kg
ATE(mix) dermal >2000 mg/kg
ATE(mix) inhal = >20,0 mg/l/4 h

(a) acute toxicity: 2-Butoxyethanol: Ingestion - LD50 rat (mg / kg / 24h bw): 615
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): 405
Inhalation - LD50 rat (mg / L / 4h): 2.2
Sodium metasilicate pentahydrate: Ingestion: Oral LD50 (rat): 1349 mg / Kg
Inhalation: LC50 (rat) > 2.06 g / m³
Skin: LD50 (rat) > 5000 mg / kg bw.
Tetrapotassium pyrophosphate: Ingestion-rat LD50 (mg/kg/bw 24h): > 2000

Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): >2000
Inhalation-rat LD50 (mg/l/4h): >1,1
Tetrasodium ethylene diamine tetraacetate: Ingestion - LD50 rat (mg / kg / 24h bw): 1780
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): > 5000
Inhalation - LD50 rat (mg / l / 4h): nd
1,2-benzisothiazol-3(2H)-one: Ingestion - LD50 rat (mg / kg / 24h bw): 1193
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): 4115
(b) skin corrosion/irritation: Corrosive product: causes severe skin burns and eye damage.
2-Butoxyethanol: Not corrosive
Sodium metasilicate pentahydrate: Corrosive
Tetrapotassium pyrophosphate: Non-corrosive
Tetrasodium ethylene diamine tetraacetate: Non-corrosive
1,2-benzisothiazol-3(2H)-one: Corrosive
2-Butoxyethanol: Irritating
Sodium metasilicate pentahydrate: Irritating
Tetrapotassium pyrophosphate: Non-irritating
Tetrasodium ethylene diamine tetraacetate: Not irritating
1,2-benzisothiazol-3(2H)-one: Irritating

(c) serious eye damage/irritation: Corrosive product: causes severe skin burns and eye damage. - If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2-Butoxyethanol: Not corrosive

Sodium metasilicate pentahydrate: Corrosive

Tetrapotassium pyrophosphate: Non-corrosive

Tetrasodium ethylene diamine tetraacetate: Corrosive

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

2-Butoxyethanol: Irritating

Sodium metasilicate pentahydrate: Irritating

Tetrapotassium pyrophosphate: Irritating

Tetrasodium ethylene diamine tetraacetate: Irritating

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

(d) respiratory or skin sensitisation: 2-Butoxyethanol: Not available

Sodium metasilicate pentahydrate: Not available

Tetrapotassium pyrophosphate: Non-sensitizing

Tetrasodium ethylene diamine tetraacetate: Not available

1,2-benzisothiazol-3(2H)-one: May cause an allergic reaction.

(e) germ cell mutagenicity: 2-Butoxyethanol: Not available

Sodium metasilicate pentahydrate: Not available

Tetrapotassium pyrophosphate: Non-mutagenic

Tetrasodium ethylene diamine tetraacetate: Not available

1,2-benzisothiazol-3(2H)-one: Not available

(f) carcinogenicity: 2-Butoxyethanol: Not available

Sodium metasilicate pentahydrate: Not available

Tetrapotassium pyrophosphate: Non-carcinogenic

Tetrasodium ethylene diamine tetraacetate: Not available

1,2-benzisothiazol-3(2H)-one: Not available

(g) reproductive toxicity: 2-Butoxyethanol: Not available

Sodium metasilicate pentahydrate: Not available

Tetrapotassium pyrophosphate: Non-toxic for reproduction

Tetrasodium ethylene diamine tetraacetate: Not available

1,2-benzisothiazol-3(2H)-one: Not available

(h) specific target organ toxicity (STOT) single exposure: 2-Butoxyethanol: Not available

Sodium metasilicate pentahydrate: Not available

Tetrapotassium pyrophosphate: Not available

Tetrasodium ethylene diamine tetraacetate: Not available

1,2-benzisothiazol-3(2H)-one: Not available

(i) specific target organ toxicity (STOT) repeated exposure: 2-Butoxyethanol: Not available

Sodium metasilicate pentahydrate: Not available

Tetrapotassium pyrophosphate: Not available

Tetrasodium ethylene diamine tetraacetate: Not available

1,2-benzisothiazol-3(2H)-one: Not available

(j) aspiration hazard: 2-Butoxyethanol: Not available

Sodium metasilicate pentahydrate: Not available

Tetrapotassium pyrophosphate: Not available

Tetrasodium ethylene diamine tetraacetate: Not available

1,2-benzisothiazol-3(2H)-one: Not available

11.2. Information on other hazards

No data available.

12.1. Toxicity

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Related to contained substances:

2-Butoxyethanol:

Acute toxicity - fish LC50 (mg / l / 96h): nd

Acute toxicity - crustaceans EC50 (mg / l / 48h): nd

Acute algae toxicity ErC50 (mg / l / 72-96h): nd

Chronic toxicity - NOEC fish (mg / l): nd

Chronic toxicity - crustaceans NOEC (mg / l): nd

Chronic toxicity NOEC algae (mg / l): nd

Sodium metasilicate pentahydrate:

Acute toxicity - fish LC50 (mg / l / 96h): 1108 Brachydanio rerio

Acute toxicity - shellfish EC50 (mg / l / 48h): 1700 Daphnia magna (by analogy)

Acute toxicity algae ErC50 (mg / l / 72-96h): 207 Scenedesmus subspicatus

Chronic toxicity - NOEC fish (mg / l): nd

Chronic toxicity - crustacean NOEC (mg / l): nd

Chronic algae toxicity NOEC (mg / l): nd

Tetrapotassium pyrophosphate:

Acute toxicity - fish LC50 (mg / l / 96h):> 100 Oncorhynchus Mykiss

Acute toxicity - crustaceans EC50 (mg / l / 48h):> 100 Daphnia magna

Acute toxicity alg ErC50 (mg / l / 72-96h):> 100

Chronic toxicity - NOEC fish (mg / l):> 100

Chronic toxicity - crustaceans NOEC (mg / l): nd

Chronic algae toxicity NOEC (mg / l): nd

Tetrasodium ethylene diamine tetraacetate:

Acute toxicity - fish LC50 (mg / l / 96h):> 100

Acute toxicity - crustaceans EC50 (mg / l / 48h): 140 Daphnia magna

Acute toxicity ErC50 algae (mg / l / 72-96h):> 100

Chronic toxicity - NOEC fish (mg / l):> 25.7 Danio rerio

Chronic toxicity - crustaceans NOEC (mg / l): 25 Daphnia magna

C(E)L50 (mg/l) = 100

NOEC (mg/l) = 25

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

Acute toxicity - fish LC50 (mg / l / 96h): 2.15 Oncorhynchus mykiss

Acute toxicity - shellfish EC50 (mg / l / 48h): 2.9 Daphnia magna

Acute toxicity algae ErC50 (mg / l / 72-96h): 0.084

Chronic toxicity - NOEC fish (mg / l): nd

Chronic toxicity - crustaceans NOEC (mg / l): nd

Chronic toxicity algae NOEC (mg / l): nd

C(E)L50 (mg/l) = 2,15

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

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Related to contained substances:

2-Butoxyethanol:

Solubility in water: 1000 - 10000mg / L Rapidly degradable

Sodium metasilicate pentahydrate:

Information not available

Tetrapotassium pyrophosphate:
Not biodegradable

Tetrasodium ethylene diamine tetraacetate:
NOT rapidly degradable

1,2-benzisothiazol-3(2H)-one:
Degradability: no data available

12.3. Bioaccumulative potential

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Related to contained substances:
2-Butoxyethanol:
Partition coefficient: n-octanol / water 0.81

Sodium metasilicate pentahydrate:
Information not available

Tetrapotassium pyrophosphate:
BFC 1.8 Kg / L

Tetrasodium ethylene diamine tetraacetate:
Information not available

1,2-benzisothiazol-3(2H)-one:
Information not available

12.4. Mobility in soil

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Related to contained substances:
2-Butoxyethanol:
Information not available

Sodium metasilicate pentahydrate:
Information not available

Tetrapotassium pyrophosphate:
Information not available

Tetrasodium ethylene diamine tetraacetate:
Information not available

1,2-benzisothiazol-3(2H)-one:
Information not available

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, if possible. Product residues are to be considered special hazardous waste. The dangerousness of the waste that partly contains this product must be assessed according to the laws in force. Disposal must be entrusted to an authorized waste management company, in compliance with national and local regulations. Waste transportation may be subject to ADR. CONTAMINATED PACKAGING Contaminated packaging must be sent for recovery or disposal in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR/RID/IMDG/ICAO-IATA: 3266

If subject to the following characteristics is ADR exempt:

Combination packagings: per inner packaging 1 L per package 30 Kg

Inner packaging placed in shrink-wrapped or stretch-wrapped trays: per inner packaging 1 L per package 20 Kg



14.2. UN proper shipping name

ADR/RID/IMDG: LIQUIDO INORGANICO CORROSIVO, BASICO, N.A.S. (Sodio metasilicato pentaidrato in miscela)

ADR/RID/IMDG: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate pentahydrate in mixture)

ICAO-IATA: CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Sodium metasilicate pentahydrate in mixture)

14.3. Transport hazard class(es)

ADR/RID/IMDG/ICAO-IATA: Class : 8

ADR/RID/IMDG/ICAO-IATA: Label : 8

ADR: Tunnel restriction code : E

ADR/RID/IMDG/ICAO-IATA: Limited quantities : 1 L

IMDG - EmS : F-A, S-B

14.4. Packing group

ADR/RID/IMDG/ICAO-IATA: II

14.5. Environmental hazards

ADR/RID/ICAO-IATA: Product is not environmentally hazardous

IMDG: Marine polluting agent : No

14.6. Special precautions for user

The transport must be carried out by authorized vehicles for the transport of dangerous goods in accordance with the requirements of the applicable Edition of the agreement A.D.R. and national provisions. The transport must be carried out in the original packaging and in packages that are made from materials resistant to content and not likely to generate with this dangerous reactions. The process of loading and unloading of dangerous goods have received adequate training on the risks presented by prepared and on possible procedures to be taken in the event of emergency situations

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

=====

Related to contained substances:

Tetrapotassium pyrophosphate:

D. Lgs. n. 2/3/1997 52 (classification, packaging and labelling of dangerous substances). Legislative Decree No. 3/14/2003 65 (classification, packaging and labelling of dangerous preparations). Legislative Decree No. 25 2/2/2002 (risks related to chemical agents at work). D.M. 2/26/2004 Work (occupational exposure limits); D.M. 4/3/2007 (implementation of Directive No. 2006/8/EC). Regulation (EC) No 1907/2006 (REACH), Regulation (EC) no 1272/2008 (CLP), Regulation (EC) no 790/2009. Legislative Decree No. 238 September 21, 2005 (Seveso Ter).

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable

Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC

Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC

Reg. EC 648/04: see 2.2

Reg. (EU) n. 1169/2011: see 2.2

Reg (UE) 528/2012: see.to 2.2

REGULATION (EU) No 1357/2014 - waste:

HP8 - Corrosive

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.2. Label elements, 2.3. Other hazards, 7.3. Specific end use(s), 8.1. Control parameters, 8.2. Exposure controls, 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 1 Endocrine disrupting properties

Description of hazard statements set out in paragraph 3

H302 = Harmful if swallowed.

H312 = Harmful in contact with skin.

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H332 = Harmful if inhaled.

H290 = May be corrosive to metals.

H314 = Causes severe skin burns and eye damage.

H318 = Causes serious eye damage.

H335 = May cause respiratory irritation.

H373 = May cause damage to organs through prolonged or repeated exposure .

H317 = May cause an allergic skin reaction.

H400 = Very toxic to aquatic life.

Classification based on data of all mixture components

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.

Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.

Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)

Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Regulation (UE) 528/2012 (Biocides) et seq.

Procedure used to classify under CLP mixture (Reg . EC 1272/2008):

Physical hazards: On the basis of experimental data

H314 Skin. Corr. 1: On the basis of experimental data

Other hazards: Calculation Method

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimat

BFC: BioconCentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Enviroment Release Classes

EU/UE: European Union

IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
Kow: Octanol water partition coefficient
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PBT: Persistent Bioaccumulative and Toxic
PC: Product Categories
PNEC: Predicted No Effect Concentration
PROC: Process Categories
RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)
STOT: Target Organ Systemic Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure
STP: Sewage Treatment Plants
SU: Sector of Use
SVCH: Substance of Very High Concern
TLV: Threshold Limit Value
vPvB: Very Persistent Very Bioaccumulative

References and Sources:

- ECHA Registered Substances:
- <https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>
- SDS supplier
- GESTIS DNEL Database: <http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp>
- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by AEB technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: sec. 1,2,3,7,8,9,11,12 - Scenarios exposure - Working instruction table attached - Issue in according to Reg. UE 878/20

SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_4_2***Version 1.1, August 2018****Industrial uses; Automated task; Semi-automated task; Dedicated equipment***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.


General description of the process covered

The SUMI applies to industrial uses where products are used in closed process where opportunity for exposure arises. This Safe Use Information is based on the **AISE_SWED_IS_4_2**.



Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_7_4_G***Version 1.1, August 2018****Industrial spraying; Automated task; Open system; Long term***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.



General description of the process covered

The SUMI applies to industrial spraying products. This Safe Use Information is based on the AISE_SWED_IS_7_4.

Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves and eye protection. See section 8 of the SDS of this product for specifications.  
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

This is a document for communicating generic conditions of safe use of a product. It is the responsibility of the formulator to link this SUMI to the SDS of a specific product that he is selling.

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Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_8b_1***Version 1.1, August 2018****Transfer and dilution of concentrated product by using dedicated dosing system***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.


General description of the process covered

This SUMI applies to industrial uses where products are transferred to or diluted in a dedicated dosing system. This Safe Use Information is based on the **AISE_SWED_IS_8b_1_L** and **AISE_SWED_IS_8b_1_S**

Operational Conditions

Maximum duration	60 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves. See section 8 of the SDS of this product for specifications. 
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

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If a SUMI (or associated SWED) code is mentioned in the SDS of a product, the formulator of that product declares that all substances in the mixture are present in such concentration, that the use of the product within the conditions of the SUMI is safe. When available, this safe use is ensured by evaluating the results of the chemical safety assessments as performed by the raw material suppliers. When no chemical safety assessment has been carried out by the supplier for an ingredient that contributes to the classification of the mixture, the formulator has performed a safety assessment himself.

Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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SUMI

Informazioni sull'Uso Sicuro delle
Miscele

**AISE_SUMI_IS_10_1_G**

Versione 1.1, agosto 2018

Applicazione mediante spazzola, pennelli, stracci, spugne, rulli e simili; processo automatizzato

Questo documento ha lo scopo di comunicare le condizioni per l'uso sicuro del prodotto e deve sempre essere considerato complementare alla Scheda Dati di Sicurezza e all'etichetta.


Descrizione generale del processo

Questo SUMI si applica agli usi industriali in cui il prodotto è utilizzato in processi che prevedono l'applicazione mediante spazzola, pennelli, stracci, spugne, rulli e simili. Il SUMI si basa sull'AISE_SWED_IS_10_1.

Condizioni operative

Durata massima	480 minuti/giorno
Tipo di applicazione / Condizioni di processo	Al chiuso (indoor)
	Processo svolto a temperatura ambiente
	Se il prodotto deve essere diluito, usare acqua corrente alla Temperatura massima di 45°C.
Ricambi d'aria	Nessun LEV richiesto; prevedere ventilazione generale standard base (1-3 ricambi d'aria/ora).

Misure di gestione del rischio

Condizioni e misure relative ai Dispositivi di Protezione Individuale (DPI), all'igiene e alla valutazione della salute.	Indossare guanti adatti. Proteggere gli occhi. Vedere sezione 8 della SDS del prodotto per le specifiche. 
	Deve essere assicurato l'addestramento del personale per il corretto uso e la manutenzione dei DPI.
Misure di protezione ambientale	Evitare che sversamenti di prodotto non diluito raggiungano le fogne o le acque superficiali.
	Nel caso si applichi l'AISE SPERC 8a.1.a.v2: uso ampiamente dispersivo che può portare al rilascio all'impianto di trattamento municipalizzato.

Ulteriori accorgimenti di buona pratica

Non bere o mangiare Non fumare. Non usare in prossimità di fiamme libere.	
Lavare le mani dopo l'uso Evitare il contatto con pelle lesa. Non miscelare con altri prodotti.	
In caso di sversamento	Sciacquare diluendo con acqua e assorbire con panni, spugne o simili
Consigli di igiene	Seguire le istruzioni riportate in etichetta o nella scheda tecnica ed usare buone pratiche di igiene occupazionale come specificato nella sez.7 della SDS del prodotto.

Informazioni aggiuntive dipendenti dalla composizione del prodotto

L'etichetta e (quando richiesta) la Scheda Dati di Sicurezza contengono informazioni cruciali, aggiuntive e specifiche per l'utilizzo sicuro delle miscele.

Far riferimento all'etichetta e alla Scheda Dati di Sicurezza del prodotto, particolarmente per le informazioni riguardanti: classificazione di pericolo del prodotto, fragranze potenzialmente allergeniche, ingredienti significativi e valori limite di esposizione (quando disponibili).

Avvertenza

Questo è un documento per comunicare le condizioni generiche di uso sicuro per un prodotto. È responsabilità del formulatore allegare questo SUMI alla SDS del prodotto specifico che sta immettendo sul mercato.

Se nella SDS viene menzionato il codice di un SUMI (o dello SWED associato) il formulatore del prodotto dichiara che tutte le sostanze contenute nella miscela sono presenti in concentrazione tale per cui l'uso del prodotto è sicuro. Quando disponibile, l'uso sicuro del prodotto è garantito dalla valutazione dei risultati del CSA "Chemical Safety Assessment" effettuato da parte del fornitore delle materie prime. Nel caso in cui non sia stato effettuato un CSA da parte del fornitore, il formulatore ha effettuato esso stesso la valutazione di sicurezza degli ingredienti che contribuiscono alla pericolosità.

In accordo alla legislazione sulla salute del Lavoro, il datore di lavoro che utilizza prodotti valutati sicuri seguendo le condizioni del SUMI, rimane responsabile di comunicare agli impiegati le rilevanti informazioni di utilizzo. Quando si sviluppano le istruzioni per i lavoratori, i SUMI dovrebbero essere sempre considerati in combinazione con le SDS e le etichette dei prodotti.

Questo documento è stato reso disponibile da A.I.S.E. e tradotto da Assocasa Federchimica con solo scopo informativo. Il formulatore utilizza il contenuto del documento a suo rischio.

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SUMI**Safe Use of Mixtures Information****AISE_SUMI_IS_13_3_G***Version 1.1, August 2018****Industrial uses; Treatment of articles by dipping or pouring***

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet and labels.



General description of the process covered

This SUMI applies to industrial uses where articles are treated by dipping or pouring. This Safe Use Information is based on the **AISE_SWED_IS_13_3**.



Operational Conditions

Maximum duration	480 minutes per day.
Range of application / Process conditions	Indoor Use.
	Process carried out at room temperature.
	In case of dilution, tap water at a maximum temperature of 45°C is used.
Air exchange rate	Provide a basic standard of general ventilation (1 to 3 air changes per hour). No LEV required.

Risk Management Measures

Measures related to personal protective equipment (PPE), hygiene and health evaluation	Wear suitable gloves and eye protection. See section 8 of the SDS of this product for specifications.  
	Training of workers in relation to proper use and maintenance of PPEs must be ensured.
Environmental measures	Prevent that undiluted product reaches surface waters.
	If appropriate AISE SPERC 8a.1.a.v2 may apply: wide dispersive use resulting in release to municipal sewage treatment plant.

Additional good practice advice

Don't eat or drink. Don't smoke. Don't use in proximity of open flame.	
Wash hands after use. Avoid contact with damaged skin. Do not mix with other products.	
Spillage instructions	Dilute with fresh water and mop up.
Hygiene practices	Follow the product instructions as specified on the label or in the product information sheet and use good occupational hygiene practices as specified in Section 7 of the product SDS.

Additional information depending on product composition

The label and (when required) the Safety Data Sheet contain additional, product specific information crucial for working safely with mixtures. Please refer to the product label and SDS for information including, but not limited to: product hazard classification, potentially allergenic fragrances, notable ingredients and threshold limit values (when available).

Disclaimer

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Following Occupational Health legislation, the employer of workers that use products that are assessed as safe following SUMI conditions remains responsible for communicating relevant use information to employees. When developing workplace instructions for employees, SUMI Sheets should always be considered in combination with the SDS and the label of the product.

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WORKING ISTRUCTION TABLE



This tab provides instructions for appropriate and safe use of products and proper management of emergency situations for cleaning staff/users.

Attached to MSDS rel#10 del 08/05/21

Use description

Use in batch and other process (syn- thesis) where opportunity for exposure arises [PROC4], Industrialspraying [PROC7], Transfer of substance or mixture (charging and discharging) at dedicated facilities [PROC8B], Application with rollers or brushes [PROC10] Treatment of articles by dipping and pouring [PROC13]

Product name

ECOCLEAN

Classification of the product (100%)

H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage.
EUH208- Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

Classification of the diluted product (maximum use concentration)

At maximux concentration of use (10%, tq) the product is classified:
H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.

Handling of the product (100%)

Do not breathe vapours/spray.
Wear protective gloves/clothing and eye/face protection.
At work do not eat or drink.

Handling of the diluted product

Wear protective gloves/clothing and eye/face protection.
At work do not eat or drink.

DPI required concentrated product (racking, concentrated use, spillage...)

Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), safety glasses (EN 166).

Diluted product

Chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3), safety glasses (EN 166).

In case of emergency (accidents involving exposure to the product)	<p>Immediately inform the customer.</p> <p>Immediately inform the employer.</p> <p>Contact Poisons Centres tel. number in 1.4 section of the MSDS</p>
Accidental release large quantities measures: concentrated product	<p>Wear gloves, mask and protective clothing (for specifications refer to section 8.2. SDS) Possibly absorb it with inert material or suck it.</p> <p>After wiping up, wash with water the area and materials involved</p>
Diluted product	<p>Wear gloves and protective clothing (for specifications refer to section 8.2. SDS). Wash with water the area and materials involved</p>
Storage of the product	<p>Keep in original container closed tightly. Do not store in open or unlabelled containers. Keep containers upright and safe by avoiding the possibility of falls or collisions. Store in a cool and dry place, away from heat sources and direct exposure to sunlight.</p>
In case of accidents, emergency or fire	<p>Immediately inform the customer. Follow company emergency instruction.</p>