

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

1.1. Product identifier

Product name : SINTOLUBE
Product code: refer to sales department

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

Lubricant
Sectors of use:
Industrial Manufacturing[SU3], Manufacture of food products[SU4]
Product category:
Lubricants, Greases and Release Products
Process categories:
Industrial spraying[PROC7], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B]

Not recommended uses
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

AEB SpA - Via Vittorio Arici 104 S.Polo - 25134 Brescia (BS) Italy
Tel. +39.030.2307.1 Fax +39.030.2307281
E-mail: info@aeb-group.com - Internet: www.aeb-group.com
E-mail tecnico competente/technical dept.: sds@aeb-group.com

AEB USA
111 N Cluff Avenue
Lodi CA 95240 (USA)
Tel: +1 2096258139 Fax: +1 2092248953
Email: info@aebusa.com - Internet: www.aeb-group.com

AEB AFRICA (PTY) LTD
18 Track Crescent, Cor. Station Road
Montague Gardens 7441
Cape Town (South Africa)
Tel.: +27 215512700 - Fax: +27 (0) 215511919
Email: info@aeb.co.za - Internet: www.aeb-group.com

AEB OCEANIA PTY LTD
178A Wakaden Street
Griffith NSW 2680
T: 1300 704 971
Email: aeboceania@aeb-group.com - Internet: www.aeb-group.com

Produced by
AEB SpA
Via Vittorio Arici 104 S. Polo
25134 Brescia

1.4. Emergency telephone number

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

AEB USA

Switchboard: +1 2096258139 (GMT -8; Language: English)

AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

AEB OCEANIA PTY LTD

Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

Pictograms:

None

Hazard Class and Category Code(s):

Non hazardous

Hazard statement Code(s):

Non hazardous

2.2. Label elements

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

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Non hazardous

Supplemental Hazard statement Code(s):

EUH208 - Contains preservatives: Benzisothiazolinone. May produce an allergic reaction. Contain reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.

EUH210 - Safety data sheet available on request.

Precautionary statements:

None in particular.

Contains (Reg.EC 648/2004):

< 5% non-ionic surfactants

Preservatives: Benzisothiazolinone, Bronopol, Octylisothiazolinone, Methylchloroisothiazolinone/Methylisothiazolinone (3:1)

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.

For professional use only

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
Acetic acid substance for which there are Community workplace exposure limits	>= 0,1 < 1%	Flam. Liq. 3, H226; Skin Corr. 1A, H314; Eye Dam. 1, H318	607-002-00-6	64-19-7	200-580-7	01-2119475 328-30-XXX X
Dodecan-1ol, ethoxylated	>= 0,1 < 1%	Eye Dam. 1, H318; Aquatic Acute 1, H400		9002-92-0	500-002-6	Polymer
Benzisothiazolinone	>= 0,005 < 0,1%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318; Aquatic Acute 1, H400 Acute toxicity M-factor = 10	613-088-00-6	2634-33-5	220-120-9	01-2120761 540-60-XXX X
Sodium hydroxide substance for which there are Community workplace exposure limits	< 0,1%	Met. Corr. 1, H290; Skin Corr. 1A, H314; Eye Dam. 1, H318	011-002-00-6	1310-73-2	215-185-5	01-2119457 892-27-XXX X
reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) substance for which there are Community workplace exposure limits	>= 0,00015 < 0,1%	Acute Tox. 3, H301; Acute Tox. 2, H310; Skin Corr. 1C, H314; Skin Sens. 1, H317; Eye Dam. 1, H318; Acute Tox. 2, H330; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Acute toxicity M-factor = 100 Chronic toxicity M-factor = 100	613-167-00-5	55965-84-9		

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or medicinal mineral vaseline oil.

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

Skin contact may cause skin rash.

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

No data available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, 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:

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:

None in particular.

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

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 extreme caution.

Store in a well ventilated place away from heat sources. (7-30°C)

Manufacture of food products:

Handle with care.

Store in a clean, dry, ventilated area away from heat and direct sunlight.

Keep container tightly closed. (7-30°C)

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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Related to contained substances:

Acetic acid:

Limit value/Eight hours

(ppm)/(mg/m³)

Australia: 10/25

Austria: 10/25

Belgium: 10/25

Canada-Ontario: 10/x

Canada-Québec: 10/25

Denmark: 10/25

European Union: 10/25

Finland: 5/13

France: x/x

Germany (AGS): 10/25

Germany (DFG): 10/25

Hungary: x/25

Ireland: 10/25

Italy: 10/25

Latvia: 10/25

New Zealand: 10/25

People's Republic of China: x/10

Poland: x/15

Singapore: 10/25

South Korea: 10/25

Switzerland: 10/25

Turkey: 10/25

USA-NIOSH: 10/25

USA-OSHA: 10/25

United Kingdom: [10]/[25]

Limit value/Short term

(ppm)/(mg/m³)

Australia: 15/37

Austria: 20-50

Belgium: 15/38

Canada-Ontario: 15/x

Canada-Québec: 15/37

Denmark: 20/50

European Union: x/x

Finland: 10(1)/25(1)

France: 10/25

Germany (AGS): 20(1)/50(1)

Germany (DFG): 20/50

Hungary: x/25

Ireland: 15(1)/37(1)

Italy: x/x

Latvia: x/x

New Zealand: 15/37

People's Republic of China: x/20(1)

Poland: x/30

Singapore: 15/37

South Korea: 15/37

Spain: 15/37

Sweden: 10(1)/25(1)

Switzerland: 20/50

Turkey: x/x

USA-NIOSH: 15(1)/37(1)
USA-OSHA: x/x
United Kingdom: [15]/[37]

Remarks

Austria: Indicative Occupational Exposure Limit Values, proposal [5] ~ (for reference see bibliography)
Finland: (1) 15 minutes average value
Germany (AGS): (1) 15 minutes average value
Germany (DFG): STV 15 minutes average value
Ireland: (1) 15 minutes reference period
People's Republic of China: (1) 15 minutes average value
Sweden: (1) Short-term value, 15 minutes average value

Tipo OEL: UE - LTE(8h): 25mg/m³, 10ppm
Tipo OEL: ACGIH - LTE(8h): 10ppm, - STEL: 15 ppm - Note: URT and eye irr, pulm func

Sodium hydroxide:

Limit value – Eight hours
(ppm)/(mg/m³)
Austria: x/2 inhalable aerosol
Belgium: x/2 (1)
Denmark: x/2
France: x/2
Hungary: x/2
Japan (JSOH): x/2(1)
Latvia: x/0,5
Poland: x/0,5
Romania: x/1
Spain: x/2
Sweden: x/1 (1)
Switzerland: x/2 inhalable aerosol
USA – OSHA: x/2

Limit Value – Short Term

(ppm)/(mg/m³)
Australia: x/2(1)
Austria: x/4 inhalable aerosol
Canada - Ontario: x/2(1)
Canada – Québec: x/2(1)
Denmark: x/2
Finland: x/2(1)
Hungary: x/2
Ireland: x/2(1)
New Zealand: x/2(1)
People's Republic of China: x/2(1)
Poland: x/1
Romania: x/3(1)
Singapore: x/2
South Korea: x/2(1)
Sweden: x/2(1)(2)
Switzerland: x/2 inhalable aerosol
USA – NIOSH: x/2(1)
United Kingdom: x/2

Remarks:

Australia: (1) Ceiling limit value
Canada – Ontario: (1) Ceiling limit value
Canada – Québec: (1) Ceiling limit value
Finland: (1) Ceiling limit value

Ireland: (1) 15 minutes reference period
Japan: (1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day
New Zealand: (1) Ceiling limit value
People's Republic of China: (1) Ceiling limit value
South Korea: (1) Ceiling limit value
Romania: (1) 15 minutes average value
Sweden: (1) Inhalable dust (2) Ceiling limit value
USA – NIOSH: (1) Ceiling limit value (15 min)
Argentina: CMP-C: 2 mg/m³
Czech Republic: PEL 1 mg/m³/ NPK-P 2 mg/m³
Italy: OEL: ACGIH -STEL: C 2.0 mg/m³; Tipo OEL: ACGIH - STEL: C2 mg/m³ - Note: URT, eye, and skin irr
Estonia: short-term exposure limit (maximum chemical substance average allowable concentration in inhaled air - 15 minutes) 2 mg/m³(Ceiling limit" means a maximum permissible continuous concentration of 15 minutes in the air for rapidly acting substances)
Norway: ceiling value (a moment value that indicates the maximum concentration of a chemical in the breathing zone that should not be exceeded) 2 mg/m³
Lithuania: NRD 2 mg/m³
Slovakia: NPEL 2 mg/m³
South Africa: Short Term OEL-CL 2 mg/m³

massa di reazione di 5-cloro-2- metil-2H-isotiazol-3-one e 2- metil-2H-isotiazol-3-one (3:1)

**** Not translated ****

- Substance: Acetic acid

DNEL

Local effects Long term Workers inhalation = 25
Local effects Long term Consumers inhalation = 25 (mg/m³)
Local effects Short term Workers inhalation = 25 (mg/m³)
Local effects Short term Consumers inhalation = 25 (mg/m³)

PNEC

Sweet water = 3,058 (mg/l)
sediment Sweet water = 11,36 (mg/kg/sediment)
Sea water = 0,3058 (mg/l)
sediment Sea water = 1,136 (mg/kg/sediment)
intermittent emissions = 30,58 (mg/l)
STP = 85 (mg/l)
ground = 0,47 (mg/kg ground)

- Substance: Dodecan-1ol, ethoxylated

DNEL

Systemic effects Long term Workers inhalation = 4,93 (mg/m³)
Systemic effects Long term Workers dermal = 1,4 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 0,87 (mg/m³)
Systemic effects Long term Consumers dermal = 0,5 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 0,5 (mg/kg bw/day)

PNEC

Sweet water = 0,00139 (mg/l)
sediment Sweet water = 0,00259 (mg/kg/sediment)
Sea water = 0,000139 (mg/l)
sediment Sea water = 0,000259 (mg/kg/sediment)
intermittent emissions = 0,025 (mg/l)
STP = 0,312 (mg/l)
ground = 0,00435 (mg/kg ground)

- Substance: Benzisothiazolinone

DNEL

Systemic effects Long term Workers inhalation = 6,81 (mg/m³)
Systemic effects Long term Workers dermal = 0,966 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,2 (mg/m³)
Systemic effects Long term Consumers dermal = 0,345 (mg/kg bw/day)
PNEC
Sweet water = 0,011 (mg/l)
sediment Sweet water = 0,0499 (mg/kg/sediment)
Sea water = 0,001 (mg/l)
sediment Sea water = 0,00499 (mg/kg/sediment)
STP = 1,03 (mg/l)
ground = 10 (mg/kg ground)

- Substance: Sodium hydroxide

DNEL

Systemic effects Short term Workers inhalation = 1 (mg/m³)
Systemic effects Short term Consumers inhalation = 1 (mg/m³)
Local effects Short term Workers inhalation = 1 (mg/m³)
Local effects Short term Consumers inhalation = 1 (mg/m³)

- Substance: reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1)

DNEL

Systemic effects Long term Consumers oral = 0,009 (mg/kg bw/day)
Systemic effects Short term Consumers oral = 0,011 (mg/kg bw/day)
Local effects Long term Workers inhalation = 0,02
Local effects Long term Consumers inhalation = 0,02 (mg/m³)
Local effects Short term Workers inhalation = 0,04 (mg/m³)
Local effects Short term Consumers inhalation = 0,04 (mg/m³)

PNEC

Sweet water = 0,00339 (mg/l)
sediment Sweet water = 0,027 (mg/kg/sediment)
Sea water = 0,00339 (mg/l)
sediment Sea water = 0,027 (mg/kg/sediment)
intermittent emissions = 0,00339 (mg/l)
STP = 0,023 (mg/l)

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

Not needed for normal use.

(b) Skin protection

(i) Hand protection

Not needed for normal use.

In the case of individuals who are already sensitised to the substance or mixture in the product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic

(ii) Other

During working operation wear protective clothing (generic workwear / antacid, safety shoes or other protective equipment) according to the instructions of the employerng.

(c) Respiratory protection

None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 245/2016 UE), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

(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	White liquid	
Odour	odorless	
Odour threshold	not determined as considered not relevant for the characterization of the product	
pH	3,5 ± 0,5 (20°C; Sol. 100%); 7,0 ± 0,5 (20°C; Sol. 0,6%)	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	
Evaporation rate	not determined as considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Vapour density	not determined as considered not relevant for the characterization of the product	
Relative density	1,00 ± 0,05 (20 ° C)	
Solubility	Miscible in water at the concentrations of use	
Water solubility	miscible	
Partition coefficient: n-octanol/water	not determined as considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
Decomposition temperature	not determined as considered not relevant for the characterization of the product	
Viscosity	not determined as considered not relevant for the characterization of the product	
Explosive properties	not determined as considered not relevant for the characterization of the product	
Oxidising properties	not determined as considered not relevant for the characterization of the product	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

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 Related to contained substances:
 Sodium hydroxide:
 Highly reactive product

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

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 Related to contained substances:
 Sodium hydroxide:
 Absorbs carbon dioxide when exposed to air.

10.5. Incompatible materials

No information available

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = ∞
ATE(mix) dermal = ∞
ATE(mix) inhal = ∞

(a) acute toxicity: Acetic acid: Ingestion - LD50 rat (mg / kg / 24h bw): 3310
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd
Inhalation - LD50 rat (mg / l / 4h): 11.4 (varpori)
Dodecan-1ol, ethoxylated: Ingestion - LD50 rat (mg / kg / 24h bw):> 2000
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd
Inhalation - LD50 rat (mg / l / 4h): na
Benzisothiazolinone: Ingestion - LD50 rat (mg / kg / 24h bw): 670
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw):> 2000
Sodium hydroxide: Ingestion - LD50 rat (mg / kg / 24h bw): nd
Skin contact - LC50 rabbit (mg / kg / 24h bw): 1350
Inhalation - LD50 rat (mg / l / 4h): nd
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): LD50 oral rat 64- 561 mg / kg bw
LC50 (4 h) inhalation rat 1.23 mg / m³
LD50 660 mg / kg bw dermal rabbit
(b) skin corrosion/irritation Acetic acid: Corrosive
Dodecan-1ol, ethoxylated: Not corrosive
Benzisothiazolinone: Corrosive
Sodium hydroxide: Corrosive
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Corrosive
Acetic acid: Irritating
Dodecan-1ol, ethoxylated: Not irritating
Benzisothiazolinone: Irritating
Sodium hydroxide: Irritating
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Irritating
(c) serious eye damage/irritation: Acetic acid: Corrosive
Dodecan-1ol, ethoxylated: Corrosive
Benzisothiazolinone: Corrosive
Sodium hydroxide: Corrosive
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Corrosive
Acetic acid: Irritating
Dodecan-1ol, ethoxylated: Irritating
Benzisothiazolinone: Irritating
Sodium hydroxide: Irritating
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Irritating
(d) respiratory or skin sensitization: Acetic acid: Non-sensitizing
Dodecan-1ol, ethoxylated: Not sensitizing
Benzisothiazolinone: Sensitizing
Sodium hydroxide: Not sensitizing
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Sensitizing
(e) germ cell mutagenicity: Acetic acid: Non-mutagenic
Dodecan-1ol, ethoxylated: Not available
Benzisothiazolinone: Non-mutagenic
Sodium hydroxide: Not mutagenic
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Not available
(f) carcinogenicity: Acetic acid: Non-carcinogenic
Dodecan-1ol, ethoxylated: Not available
Benzisothiazolinone: Not available

Sodium hydroxide: Not carcinogenic
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Not available
(g) reproductive toxicity: Acetic acid: Not available
Dodecan-1ol, ethoxylated: Not available
Benzisothiazolinone: Not available
Sodium hydroxide: Non-toxic for reproduction
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Not available
(h) specific target organ toxicity (STOT) single exposure: Acetic acid: Not available
Dodecan-1ol, ethoxylated: Not available
Benzisothiazolinone: Not available
Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosols and by ingestion.
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Toxic if swallowed
and in contact with skin
(i) specific target organ toxicity (STOT) repeated exposure: Acetic acid: Not available
Dodecan-1ol, ethoxylated: Not available
Benzisothiazolinone: Not available
Sodium hydroxide: The substance can be absorbed into the body by inhalation of its aerosols and by ingestion. The
symptoms of pulmonary edema often do not manifest themselves before a few hours and are exacerbated by physical
exertion. Rest and medical observation are therefore essential
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Not available
(j) aspiration hazard: Acetic acid: Not available
Dodecan-1ol, ethoxylated: Not available
Benzisothiazolinone: Not available
Sodium hydroxide: Not available
reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1): Not available

Health Hazards:

Eye contact: Accidental contact of product with eyes may cause irritation.
Skin Contact: Product is not an irritant. Prolonged or repeated contact may defeat and irritate the skin and cause dermatitis in some cases.
Ingestion: The ingested product may cause irritation of the mucous membranes of the throat and digestive system leading to digestive symptoms and abnormal bowel disorders.
Inhalation: Prolonged exposure to vapours or mists of product may cause respiratory irritation.

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Related to contained substances:
Acetic acid:
LD50 (rat) Oral (mg/kg body weight) = 3310

Benzisothiazolinone:
LD50 (rat) Oral (mg/kg body weight) = 670

Sodium hydroxide:
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1350

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1):
LD50 (rat) Oral (mg/kg body weight) = 457
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 660
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1,23

SECTION 12. Ecological information

12.1. Toxicity

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Related to contained substances:
Acetic acid:
Acute toxicity - fish LC50 (mg / l / 96h): >300
Acute toxicity - shellfish EC50 (mg / l / 48h): >300
Acute toxicity ErC50 algae (mg / l / 72-96h): >300

Dodecan-1ol, ethoxylated:

Acute toxicity - fish LC50 (mg / l / 96h): <1 (Carassius Auratus)

Acute toxicity - crustaceans EC50 (mg / l / 48h): <1 (Daphnia)

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

Benzisothiazolinone:

Acute toxicity - fish LC50 (mg / l / 96h): 2.18 Oncorhynchus mykiss - Method: OECD Test Guideline 203

Acute toxicity - crustaceans EC50 (mg / l / 48h): 2.94 Daphnia magna - Method test, Directive 92/69 / EEC.

Acute toxicity ErC50 algae (mg / l / 72-96h): 0.15 Selenastrum capricornutum - Type of test: Growth inhibitor

Chronic toxicity - NOEC fish (mg / l 28 die): 0.3 Oncorhynchus mykiss - Type of test: Growth inhibitor

Chronic toxicity - crustaceans NOEC (mg / l / 21d): 1.7 Daphnia magna - Type of test: Reproduction test - Method:

OECD TG 211

Chronic toxicity algae NOEC (mg / l): nd

Toxicity to organisms soil living EC50 (mg / kg / 14d):> 410.6 Fetid Eisenia Method: OECD TG 207

Toxicity for living organisms in the soil EC50 (mg / kg / 28d): 263.7 Method: OECD TG 216

Acute toxicity M-factor = 10

Sodium hydroxide:

Acute toxicity - LC50 fish (mg / l / 96h): 45

Acute toxicity - crustaceans EC50 (mg / l / 48h): 40

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

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

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

Chronic toxicity NOEC algal (mg / l): nd

C(E)L50 (mg/l) = 45

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1):

LC50 freshwater fish: 190 µg / L

LC50 seawater fish: 300 µg / L

EC50 / LC50 freshwater invertebrates: 160 µg / L

EC50 / LC50 seawater invertebrates: 282 µg / L

EC10 / LC10 or NOEC freshwater fish : 20 µg / L

EC10 / LC10 or NOEC freshwater invertebrates: na

EC50 freshwater algae: 37.1 µg / L EC10 or NOEC algae seawater: 3.5 µg / L

C(E)L50 (mg/l) = 0,19 Acute toxicity M-factor = 100

Chronic toxicity M-factor = 100

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

12.2. Persistence and degradability

=====
Related to contained substances:

Acetic acid:

Easily biodegradable (20d 96%)

Dodecan-1ol, ethoxylated:

Easily biodegradable

Benzisothiazolinone:

Quickly biodegradable

Sodium hydroxide:

Not applicable

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1):
Fully biodegradable

12.3. Bioaccumulative potential

=====
Related to contained substances:

Acetic acid:
Not applicable

Dodecan-1ol, ethoxylated:
Not available

Benzisothiazolinone:
Unlikely bioaccumulation

Sodium hydroxide:
Not bioaccumulative

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1):
Koc: 6.4 - 310.385 20 ° C; 0.3 - 16.8% organic carbon og Koc: 1.06 -141

12.4. Mobility in soil

=====
Related to contained substances:

Acetic acid:
Not applicable

Dodecan-1ol, ethoxylated:
Not available

Benzisothiazolinone:
Not available

Sodium hydroxide:
Not applicable

reaction mass of 5-chloro-2- methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3- one (3:1):
Henrys law constant (H): 0.004 - 0.005 Pa m

12.5. Results of PBT and vPvB assessment

No PBT/vPvB ingredient is present

12.6. 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

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

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

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: 2.2. Label elements

Description of hazard statements set out in paragraph 3

- H226 = Flammable liquid and vapour.
- H314 = Causes severe skin burns and eye damage.
- H318 = Causes serious eye damage.
- H400 = Very toxic to aquatic life.
- H302 = Harmful if swallowed.
- H315 = Causes skin irritation.
- H317 = May cause an allergic skin reaction.
- H290 = May be corrosive to metals.
- H301 = Toxic if swallowed.
- H310 = Fatal in contact with skin.
- H330 = Fatal if inhaled.
- H410 = Very toxic to aquatic life with long lasting effects.

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.

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

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: Environment 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>

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

Changes to the previous edition: label elements variation
