

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 1 of 17

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

1.1 Product identifier

TENAS 4IN1

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

Use of the substance/mixture

not applicable

1.3 Details of the supplier of the safety data sheet

Company name: Arcora International GmbH
Street: Marsstraße 9
Place: 85609 Aschheim by Munich
Germany
Tel: +49 (0)89 / 14 33 29 3-0
Fax: +49 (0)89 / 14 33 29 3-29
E-Mail: info@arcora.de

1.4 Emergency telephone number + 49 (0) 89 / 14 33 29 3-10

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

2.2 Label elements

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

Hazard pictograms (CLP)



GHS07

Signal word (CLP): Warning
Contains: 2-methylisothiazol-3(2H)-one; 1,2-benzisothiazol-3(2H)-one
Hazard statements (CLP): H317 – May cause an allergic skin reaction.
Precautionary statements (CLP): P261 – Avoid breathing mist, vapours, spray.
P280 – Wear protective clothing, protective gloves, eye protection
P302+P352 – IF ON SKIN: Wash with plenty of water.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 2 of 17

2.3 Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Component	
2-methylisothiazol-3(2H)-one (2682-20-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,2-benzisothiazol-3(2H)-one (2634-33-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Comments: Cleaning agent

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-methylisothiazol-3(2H)-one (Active substance (Biocide))	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6 (EC Index-No.) 613-326-00-9	< 0.1	Acute Tox. 2 (Inhalation), H330 (ATE=0.1 mg/l/4h) Acute Tox. 3 (Dermal), H311 (ATE=242 mg/kg bodyweight) Acute Tox. 3 (Oral), H301 (ATE=120 mg/kg bodyweight) Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
1,2-benzisothiazol-3(2H)-one (Active substance (Biocide))	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	< 0.1	Acute Tox. 4 (Oral), H302 (ATE=670 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 3 of 17

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
2-methylisothiazol-3(2H)-one (Active substance (Biocide))	(CAS-No.) 2682-20-4 (EC-No.) 220-239-6 (EC Index-No.) 613-326-00-9	(0.0015 ≤ C ≤ 100) Skin Sens. 1A, H317
1,2-benzisothiazol-3(2H)-one (Active substance (Biocide))	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(0.05 ≤ C < 100) Skin Sens. 1, H317

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aid measures general:	In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation:	Remove person to fresh air and keep comfortable for breathing. Call a physician immediately. Call a doctor.
First-aid measures after skin contact:	Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: get medical advice/attention.
First-aid measures after eye contact:	Rinse eyes with water as a precaution.
First-aid measures after ingestion:	Call a poison center or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact

May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 4 of 17

SECTION 5: Firefighting measures

5.1 Extinguishing agents

Suitable extinguishing media

Use an extinguishing agent suitable for the surrounding fire. Water spray. Dry powder.

Foam. Carbon dioxide.

Unsuitable extinguishing media

Strong water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire

Toxic fumes may be released. In traces: Carbon dioxide, Carbon monoxide, Nitrogen oxides.

5.3 Advice for fire fighting

Protection during firefighting

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Other information

Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 5 of 17

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures

Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2 For emergency responders

Protective equipment

Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information

Disposal must be done according to official regulations.

6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling

Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures

Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 6 of 17

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a well-ventilated place. Keep cool.

Information about storage in one common storage facility

Keep away from food, drink and animal feeding stuffs.

Storage area

Keep away from heat and direct sunlight. Keep out of frost.

7.3 Specific end use(s)

No additional information available

SECTION 8: Exposure controls/ personal protection

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2 Recommended monitoring procedures

No additional information available

8.1.3 Air contaminants formed

No additional information available

8.1.4 DNEL and PNEC

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
DNEL/DMEL (Workers)	
Long-term – systemic effects, dermal	0.966 mg/kg bodyweight/day
Long term – systemic effects, inhalation	6.81 mg/m ³
DNEL/DMEL (General population)	
Long term – systemic effects, inhalation	1.2 mg/m ³
Long-term – systemic effects, dermal	0.345 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	4.03 µg/L
PNEC aqua (marine water)	0.403 µg/L
PNEC aqua (intermittent, freshwater)	1.1 µg/L
PNEC aqua (intermittent, marine water)	0.11 µg/L
PNEC (Sediment)	
PNEC sediment (freshwater)	49.9 µg/kg dw
PNEC sediment (marine water)	4.99 µg/kg dw

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 7 of 17

PNEC (Soil)	
PNEC soil	3 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	1.03 mg/l

2-methylisothiazol-3(2H)-one (2682-20-4)	
DNEL/DMEL (Workers)	
Acute – local effects, inhalation	0.043 mg/m ³
Long term – local effects, inhalation	0.021 mg/m ³
DNEL/DMEL (General population)	
Acute – systemic effects, oral	0.053 mg/kg bodyweight/day
Acute – local effects, inhalation	0.043 mg/m ³
Long term – systemic effects, oral	0.027 mg/kg bodyweight/day
Long term – local effects, inhalation	0.021 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	3.39 µg/L
PNEC aqua (marine water)	3.39 µg/L
PNEC aqua (intermittent, freshwater)	3.39 µg/L
PNEC aqua (intermittent, marine water)	3.39 µg/L
PNEC (Soil)	
PNEC soil	0.047 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.23 mg/l

Oxydipropanol (25265-71-8)	
DNEL/DMEL (Workers)	
Long term – local effects, dermal	84 mg/kg bodyweight/day
Long term – local effects, inhalation	238 mg/m ³
DNEL/DMEL (General population)	
Long term – systemic effects, oral	24 mg/kg bodyweight/day
Long term – systemic effects, inhalation	70 mg/m ³
Long term – systemic effects, dermal	51 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC aqua (intermittent, freshwater)	1 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.238 mg/kg dwt
PNEC sediment (marine water)	0.024 mg/kg dwt

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 8 of 17

PNEC (Soil)	
PNEC soil	0.025 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	313 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	1000 mg/l

8.1.5 Control banding

Not additional information available

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Appropriate engineering controls

Ensure good ventilation of the work station.

8.2.2 Personal protection equipment

8.2.2.1 Eye/face protection

Use splash goggles when eye contact due to splashing is possible. EN 166

8.2.2.2 Skin protection

Wear suitable protective clothing. EN ISO 13688. EN 13034

Hand protection

Chemically resistant protective gloves. EN 374. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear.

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant protective gloves	Nitrile rubber	6 (> 480 minutes)	0,4	No additional information available	EN ISO 374

8.2.2.3 Respiratory protection

Not required

8.2.2.4 Thermal hazards

Not additional information available

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 9 of 17

8.2.3 Environment exposure controls

Environmental exposure controls

Avoid release to the environment.

Other information

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes.
Always wash hands after handling the product.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	liquid
Colour:	milky.white
Odour:	characteristic
Odour threshold:	Not available
Melting point:	Not applicable
Freezing point:	Not available
Boiling point:	Not available
Flammability:	Not applicable
Explosive properties:	Product is not explosive
Oxidising properties:	Non oxidizing
Explosive limits:	Not available
Lower explosive limit (LEL):	Not available
Upper explosive limit (UEL):	Not available
Flash point:	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
pH:	6-7
Viscosity, kinematic:	Not available
Solubility:	Not available
Partition coefficient n-octanol/water (Log Kow):	Not available
Vapour pressure:	Not available
Vapour pressure at 50°C:	Not available
Density:	1.05 g/cm ³
Relative density:	Not available
Relative vapour density at 20°C:	Not available
Particle size:	Not applicable
Particle size distribution:	Not applicable
Particle shape:	Not applicable
Particle aspect ratio:	Not applicable
Particle aggregation state:	Not applicable
Particle agglomeration state:	Not applicable
Particle specific surface area:	Not applicable
Particle dustiness:	Not applicable

9.2 Information with regard to physical hazard classes

No additional information available

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 10 of 17

9.2.2 Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

No additional information available

10.5 Incompatible materials

Oxidizing agent. Reducing agents.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

Acute toxicity (oral):	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal):	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation):	Not classified (Based on available data, the classification criteria are not met)

TENAS 4IN1	
ATE CLP (oral)	>5000 mg/kg bodyweight
ATE CLP (dermal)	>5000 mg/kg
ATE CLP (dust,mist)	>20 mg/l/4h

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LD50 oral rat	670-784 mg/kg bodyweight (OECD 401 method)
LD50 dermal rat	>2000 mg/kg bodyweight (OECD 402 method)

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 11 of 17

2-methylisothiazol-3(2H)-one (2682-20-4)	
LD50 oral rat	120 mg/kg bodyweight (EPA OPPTS 870.1100)
LD50 dermal rat	242 mg/kg bodyweight (OECD 402 method)
LC50 Inhalation – Rat (Dust/Mist)	0.1 mg/l/4h (OECD 403 method)

- Skin corrosion/irritation: Not classified (Based on available data, the classification criteria are not met)
pH: 6-7
- Serious eye damage/irritation: Not classified (Based on available data, the classification criteria are not met)
pH: 6-7
- Respiratory or skin sensitisation: May cause an allergic skin reaction.
- Germ cell mutagenicity: Not classified (Based on available data, the classification criteria are not met)
- Carcinogenicity: Not classified (Based on available data, the classification criteria are not met)

2-methylisothiazol-3(2H)-one (268220-4)	
NOAEL (chronic, oral, animal/male, 2 years)	>400 ppm (mouse)

- Reproductive toxicity: Not classified (Based on available data, the classification criteria are not met)
- STOT-single exposure: Not classified (Based on available data, the classification criteria are not met)
- STOT-repeated exposure: Not classified (Based on available data, the classification criteria are not met)
- Aspiration hazard: Not classified (Based on available data, the classification criteria are not met)

11.2 Information on other hazards

No additional information available

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 12 of 17

SECTION 12: Ecological information

12.1 Toxicity

Hazardous to the aquatic environment, short-term (acute): Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic): Not classified (Based on available data, the classification criteria are not met)

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
LC50 – Fish [1]	2.18 mg/l (96 h; Onchorhynchus mykiss, OECD 203)
EC50 – Crustacea [1]	2.94 mg/l (48 h; Daphnia magna; OECD 202)
ErC50 algae	0.15 mg/l (72 h; Pseudokirchneriella subcapitata; OECD 201)
NOEC chronic algae	0.055 mg/l (72 h; Pseudokirchneriella subcapitata; OECD 201)

2-methylisothiazol-3(2H)-one (2682-20-4)	
LC50 – Fish [1]	4.77 mg/l (96 h; Oncorhynchus mykiss; (OECD 203 method))
EC50 – Crustacea [1]	0.934 mg/l (48 h; Daphnia magna; (OECD 202 method))
EC50 72h algae	0.103 mg/l (72 h; Pseudokirchneriella Subcapita; (OECD 201 method))
ErC50 algae	0.072 mg/l (OECD 201 method)
NOEC chronic fish	4.93 mg/l (98 d; Oncorhynchus mykiss; (OECD 210 method))
NOEC chronic crustacea	0.044 mg/l (21 d; Daphnia magna; (OECD 211 method))
NOEC chronic algae	0.05 mg/l (5 d; Pseudokirchneriella subcapitata; (OECD 201 method))

12.2 Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	85 % (63 d; (OECD 301C method))

2-methylisothiazol-3(2H)-one (2682-20-4)	
Persistence and degradability	Not readily biodegradable. (OECD 301B method). (OECD 301D method).

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 13 of 17

12.3 Bioaccumulative potential

1,2-benzisothiazol-3(2H)-one (2634-33-5)	
BCF – Fish [1]	6.95 (OECD 305 method)
Partition coefficient n-octanol/water (Log Kow)	0.7 (20°C; pH 7; Test method EU A.8)

2-methylisothiazol-3(2H)-one (2682-20-4)	
Partition coefficient n-octanol/water (Log Pow)	-0.486 (20°C)
Bioaccumulative potential	Bioaccumulation unlikely.

12.4 Mobility in soil

2-methylisothiazol-3(2H)-one (2682-20-4)	
Surface tension	68.8 mN/m (19°C, EEC Method A5)
Ecology – soil	Low mobility (soil).

12.5 Results of PBT and vPvB assessment

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Component

Component	
2-methylisothiazol-3(2H)-one (2682-20-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
1,2-benzisothiazol-3(2H)-one (2634-33-5)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6 Endocrine disrupting properties

No additional information available

12.7 Other adverse effects

No additional information available

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 14 of 17

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste treatment methods

Disposal must be done according to official regulations. European waste catalogue. Do not discharge into drains or the environment. Do not dispose of with domestic waste.

Product/Packaging disposal recommendations

Recycle or dispose of in compliance with current legislation

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN-number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 The transport hazard class	Not applicable
14.4 Packing group	Not applicable

No supplementary information available

Inland waterways transport (ADN)

14.1 UN-number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 The transport hazard class	Not applicable
14.4 Packing group	Not applicable

No supplementary information available

Marine transport (IMDG)

14.1 UN-number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 The transport hazard class	Not applicable
14.4 Packing group	Not applicable

No supplementary information available

Air transport (ICAO)

14.1 UN-number	Not applicable
14.2 UN proper shipping name	Not applicable
14.3 The transport hazard class	Not applicable
14.4 Packing group	Not applicable

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 15 of 17

No supplementary information available

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Overland transport Not applicable

Transport by sea Not applicable

Arit transport Not applicable

Inland waterway transport Not applicable

Rail transport Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1 EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006.	
Reference code	Applicable on
3 (b)	TENAS 4IN1

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

Other information, restriction and prohibition regulations

Regulation (EC) No. 648/2004 of 31 March 2004 on detergents. Take note of Directive 94/33/EC on the protection of young people at work. Treated article (Biocide). The additional label requirements of directive EU 528/2012 about the available on the market and use of biocidal products have to be observed.

Detergent Regulation (648/2004/EC): Labelling of contents	
Component	%
anionic surfactants	< 5%
METHYLISOTHIAZOLINONE	

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 16 of 17

BENZISOTHAZOLINONE	
perfumes	

15.1.2 National regulations

No additional information available

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms

- ADN: European Agreement concerning the International Carriage of Dangerous goods by Inland Waterways
- ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
- ATE: Acute Toxicity Estimate
- BCF: Bioconcentration factor
- CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
- DMEL: Derived Minimal Effect level
- DNEL: Derived-No Effect Level
- EC50: Median effective concentration
- IARC: International Agency for Research on Cancer
- IATA: International Air Transport Association
- IMDG: International Maritime Dangerous Goods
- LC50: Median lethal concentration
- LD50: Median lethal dose
- LOAEL: Lowest Observed Adverse Effect Level
- NOAEC: No- Observed Adverse Effect Concentration
- NOAEL: No-Observed Adverse Effect Level
- NOEC: No- Observed Effect Concentration
- OECD: Organisation for Economic Co-operation and Development
- PBT: Persistent Bioaccumulative Toxic
- PNEC: Predicted No-Effect Concetration
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
- RID: Regulations concerning the International carriage of Dangerous Goods by Rail
- SDS: Safety Data Sheet
- STP: Sewage treatment plant
- TLM: Median Tolerance Limit
- vPvB: Very Persistent and Very Bioaccumulative

Safety Data Sheet

according to Regulation (EC) No 1907/2006



TENAS 4IN1

Compilation date: 02.11.2017
Revision date: 14.07.2021

Page 17 of 17

Full text of H- and EUH-statements:

Acute tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	causes severe skin burns and eye damage.
H315	causes skin irritation.
H317	May cause an allergic reaction.
H318	Causes serious eye damage.
H330	fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Skin Sens. 1	H317	Calculation method
--------------	------	--------------------

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.