

SECTION 1: Identification of the substance/ mixture and of the company/ undertaking
1.1 Product identifier
Trade name: Bevisto-Instrumental
Bevisto-Instrumental is bottled, labelled and packed by Bio Hygiene P/L in Australia under license of BEVISTON GmbH, Germany.
1.2 Relevant identified use of the substance or mixture and uses advised against

Relevant identified uses	disinfectant
Uses advised against	do not use for squirting or spraying

1.3 Details of the supplier of the safety data sheet
Australian Representative:

Bio Hygiene P/L
 Unit N4, 5 – 7 Hopher Road
 Campbelltown NSW 2560
 Australia
 Tel.: 1800 317 016
 E-mail: info@biohygiene.com.au

Further information obtainable from: Department for product safety

1.4 Emergency telephone number:

1) Emergency phone:		Tel.: 1800 317 016
	within business hours from 8:00 to 17:00 h	E-mail: info@biohygiene.com.au
2) Australian Poisons Information Centre 24/7		Tel.: 13 11 26

SECTION 2: Hazards identification
2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard class	Category	Hazard class and category	Hazard statement
3.2	Skin corrosion/ irritation	Cat. 1B	(Skin Corr. 1B)	H314
3.3	Serious eye damage/ eye irritation	Cat. 1	(Eye Dam. 1)	H318
3.9	Specific target organ toxicity – repeated exposure	Cat. 2	(STOT RE 2)	H373
4.1A	Hazardous to the aquatic environment – acute hazard	Cat. 1	(Aquatic Acute 1)	H400
4.1C	Hazardous to the aquatic environment – chronic hazard	Cat. 2	(Aquatic Chronic 2)	H411

Remarks

For full text of H phrases: see SECTION 16.

Supplemental hazard information

Code	Supplemental hazard information
EUH208	Contains Poly(hexamethylenbiguanid)-hydrochlorid. May produce an allergic reaction

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The most important adverse physicochemical, human health and environmental effects

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Delayed or immediate effects can be expected after short or long-term exposure. Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

Signal word Danger

Pictograms

GHS05, GHS08,
GHS09



Hazard statements

H314 Causes severe skin burns and eye damage.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Precautionary statements - prevention

P260 Do not breathe mist/ vapours.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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

Precautionary statements - disposal

P501 Dispose of contents/ container in accordance with local/ regional/ national/ international regulations.

Additional labelling requirements

EUH208 Contains Poly(hexamethylenbiguanid)-hydrochlorid. May produce an allergic reaction.

Hazardous ingredients for labelling

Laurylpropylenediamine
Quaternary ammonium compounds
C12-14 (even-numbered)-alkylethyldimethyl, ethyl sulphates

2.3 Other hazards

This materials is combustible but will not ignite readily.

SECTION 3: Composition/ information on ingredients

3.1 Substances

Not relevant (mixture)

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3.2 Mixtures
Description of the mixture

CAS no.	Name of substance			Quantity
	EC no.	Index no.	REACH reg. no.	
	Classification according to 1272/2008/EC			
3006-13-1	Dodecylethyldimethylammoniummethyl sulphate, N-Ethyl-N,N-dimethyldodecan-1-aminiummethyl sulphate			1 - < 5%
	221-108-6		01-2119977130-42-xxxx	
	Acute Tox. 4/ H302; Skin Corr. 1B/ H314; Aquatic Acute 1/ H400; Aquatic Chronic 1/ H410			
67-63-0	Propan-2-ol			1 - < 5%
	200-661-7		01-2119457558-25-xxxx	
	Flam Liq. 2/ H225; Eye Irrit. 2/ H319; STOT SE 3/ H336			
90640-43-0	Laurylpropylenediamine			1 - < 5%
	292-562-0		01-2119957843-25-xxxx	
	Acute Tox. 3/ H301; Skin Corr. 1B/ H314; Eye Dam. 1/ H318; STOT RE 1/ H372; Aquatic Acute 1/ H400; Aquatic Chronic 1/ H410 M-Faktor (akut) = 100.0			
85681-60-3	Cocospropylenediamin-1,5-bis-guanidiniumcetat			1 - < 5%
	288-198-7			
	Flam Liq. 3/ H226; Acute Tox. 4/ H302; Skin Corr. 1/ H314; Aquatic Acute 1/ H400			
19309-23-0	Quaternary ammonium compounds, C12-14 (even-numbered)-alkylethyldimethyl, ethyl sulphates			1 - < 5%
	242-953-7		01-2119977130-42-xxxx	
	Acute Tox. 4/ H302; Skin Corr. 1/ H314; Aquatic Acute 1/ H400; Aquatic Chronic 1/ H410			
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine			1 - < 5%
	219-145-8		01-2119980592-29-xxxx	
	Acute Tox. 3/ H301; Skin Corr. 1B/ H314; STOT RE 2/ H373; Aquatic Acute 1/ H400; Aquatic Chronic 1/ H410 M-Faktor (akut) = 10.0			
91403-50-8	Poly(hexamethylenbiguanid)-hydrochlorid			< 1%
	618-745-0			
	Skin Irrit 2/ H315; Eye Irrit. 2/ H319; Skin Sens. 1/ H317; Aquatic Acute 1/ H400; Aquatic Chronic 1/ H410			

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures
4.1 Description of first aid measures
General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water spray, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

Water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Nitrogen oxides (NO_x), carbon monoxide (CO), carbon dioxide (CO₂)

5.3 Advice for firefighters

In case of fire and/ or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/ dust/ spray/ gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advices on how to contain a spill

Covering of drains.

Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

Appropriate containment techniques

Use of adsorbent materials.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 References to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Incompatible substances or mixtures

Observe hints for combined storage.

Control of effects

Protect against external exposure, such as
frost

Consideration of other advice

Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

SECTION 8: Exposure controls/ personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

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Relevant DNELs/ DMELs/ PNECs and other threshold levels

Relevant DNELs of components of the mixture

CAS no.	Name of substance		
DNEL Type	Route of exposure	Exposure time/ effects	Threshold level
67-63-0	Propan-2-ol		
Worker (industry) DNEL	inhalatory	Chronic – systemic effects	500 mg/m ³
Worker (industry) DNEL	dermal	Chronic – systemic effects	888 mg/kg KG/Tag
90640-43-0	Laurylpropylenediamine		
Worker (industry) DNEL	inhalatory	Chronic – systemic effects	39.5 µg/m ³
Worker (industry) DNEL	dermal	Chronic – systemic effects	5.6 µg/kg
2372-82-9	N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine		
Worker (industry) DNEL	inhalatory	Chronic – systemic effects	2.35 mg/m ³
Worker (industry) DNEL	dermal	Chronic – systemic effects	0.91 mg/kg

Relevant PNECs of components of the mixture

Name of substance	CAS no.	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Propan-2-ol	64-63-0	PNEC	160 mg/kg	Aquatic organisms	Water	Short-term (single instance)
			140.9 mg/l		Water	Intermittent release
			140.9 mg/l		Freshwater	Short-term (single instance)
			2,251 mg/l		Sewage treatment plant (STP)	Short-term (single instance)
			28 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)
Amines, N-C12-14-alkyltrimethylenedi-	90640-43-0	PNEC	89 µg/kg	Aquatic organisms	Water	Short-term (single instance)
			0.65 µg/l		Water	Intermittent release
			3.2 µg/l		Freshwater	Short-term (single instance)
			0.205 mg/l		Sewage treatment plant (STP)	Short-term (single instance)
			10 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9	PNEC	0.001 mg/l	Aquatic organisms	Freshwater	Short-term (single instance)
			1.33 mg/l		Sewage treatment plant (STP)	Short-term (single instance)
			0.00015 mg/l		Water	Intermittent release
			45.34 mg/kg	Terrestrial organisms	Soil	Short-term (single instance)

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Eye/ face protection

Wear eye/ face protection.

Skin protection
Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/ impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374.

Other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ ointments) is recommended. Wash hands thoroughly after handling.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties
Appearance

Physical state	liquid
Colour	blue
Odour	characteristic

Other physical and chemical parameters

pH (value)	9 - 10
Melting point/ freezing point	not determined
Initial boiling point and boiling range	100 °C
Flash point	> 60 °C
Evaporation rate	not determined
Flammability (solid, gas)	not relevant (fluid)
Explosive limits	
• Lower explosion limit (LEL)	2 vol.%
• Upper explosion limit (UEL)	12 vol.%
Vapour pressure	48 hPa at 20 °C
Density	not determined
Relative density	Information on this property is not available.
Solubility(ies)	not determined
Partition coefficient	
n-octanol/ water (log KOW)	This information is not available.
Auto-ignition temperature	not determined
Viscosity	not determined
Explosive properties	none
Oxidising properties	non

9.2 Other information

There is not additional information.

SECTION 10: Stability and reactivity
10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

10.2 Chemical stability

See below "Conditions to avoid".

10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

There are not specific conditions known which have to be avoided.

10.5 Incompatible materials

Oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information
11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)
Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4: May be harmful if swallowed.

Acute toxicity of components of the mixture

Stoffname	CAS-Nr.	Expositionsweg	ATE
Dodecylethyldimethylammoniumethyl sulphate, N-Ethyl-N,N-dimethyldodecan-1-aminiumethyl sulphate	3006-13-1	oral	500 mg/kg
Laurylpropylenediamine	90640-43-0	oral	200 mg/kg
Cocospropylendiamin-1,5-bis-guanidiniumcetat	85681-60-3	oral	500 mg/kg
Quaternary ammonium compounds, C12-14 (even-numbered)-alkylethyldimethyl, ethyl sulphates	19309-23-0	oral	500 mg/kg
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9	oral	100 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Contains Poly(hexamethylenbiguanid)-hydrochlorid. May produce an allergic reaction.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)
Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

SECTION 12: Ecological information
12.1 Toxicity

Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute)
Aquatic toxicity (acute) of components of the mixture

Name of substance	CAS no.	Endpoint	Value	Species	Exposure time
Dodecylethylidimethyl-ammoniummethyl sulphate, N-Ethyl-N,N-dimethyldodecan-1-aminiummethyl sulphate	3006-13-1	LC50	> 10 mg/l	Striped brill (Brachydanio rerio)	96 h
propan-2-ol	67-63-0	LC50	10,000 mg/l	fish	96 h
Laurylpropylenediamine	90640-43-0	LC50	0.148 mg/l	fish	96 h
		ErC50	65.2 µg/l	algae	72 h
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9	LC50	0.431 mg/l	fish	96 h
		EC50	0.0775 mg/l	Aquatic invertebrates	48 h

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS no.	Endpoint	Value	Species	Exposure time
Propan-2-ol	67-63-0	LC50	> 10,000 mg/l	Aquatic invertebrates	24 h
Laurylpropylenediamine	90640-43-0	EC50	179 µg/l	Aquatic invertebrates	21 d
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	2372-82-9	EC50	0.034 mg/l	Aquatic invertebrates	21 d

12.2 Persistence and degradability
Degradability of components of the mixture

Name of substance	CAS no.	Process	Degradation rate	Time
Propan-2-ol	67-63-0	Oxygen depletion	53%	5 d
Laurylpropylenediamine	90640-43-0	Oxygen depletion	66%	28 d

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12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

Name of substance	CAS no.	BCF	Log KOW	BOD5/COD
Laurylpropylenediamine	90640-43-0	3.2	-0.61 (pH-Wert: 6.8, 24.7 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations
13.1 Waste treatment methods
Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/ safety data sheets.

Waste treatment of containers/ packagings

Completely emptied packages can be recycled.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

SECTION 14: Transport information

14.1	UN number	1903
14.2	UN proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
14.3	Transport hazard class(es) Class	8 (corrosive substances)
14.4	Packing group	III (substance presenting low danger)
14.5	Environmental hazards	hazardous to the aquatic environment
14.6	Special precautions for user Provisions for dangerous goods (ADR) should be complied within the premises.	
14.7	Transport in bulk according to Annex II of MARPOL and the IBC Code The cargo is not intended to be carried in bulk.	

Information for each of the UN Model Regulations

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Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	1903
Proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Particulars in the transport document	UN1903, DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (contains Dodecylethyldimethylammoniummethylsulphate, N-Ethyl-N,N-dimethyldodecan-1-aminiummethyl sulphate, Laurylpropylenediamine), 8, III, (E), environmentally hazardous
Class	8
Classification code	C9
Packing group	III
Danger label(s)	8 + "fish and tree"



Environmental hazards	yes (hazardous to the aquatic environment)
Special provisions (SP)	274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restriction code (TRC)	E
Hazard identification no	80
Emergency Action Code	2X

International Maritime Dangerous Goods Code (IMDG)

UN number	1903
Proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (contains Dodecylethyldimethylammoniummethyl sulphate, N-Ethyl-N,N-dimethyldodecan-1-aminiummethyl sulphate, Laurylpropylenediamine)
Class	8
Marine Pollutant	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	8 + "fish and tree"



Special provisions (SP)	223, 274
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-B
Stowage category	A

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International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	1903
Proper shipping name	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (contains Dodecylethyldimethylammoniummethyl sulphate, N-Ethyl-N,N-dimethyldodecan-1-aminiummethyl sulphate, Laurylpropylenediamine)
Class	8
Environmental hazards	yes (hazardous to the aquatic environment)
Packing group	III
Danger label(s)	8
	
Special provisions (SP)	A3
Excepted quantities (EQ)	E1
Limited quantities (LQ)	1 L

SECTION 15: Regulatory information

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

Relevant provisions of the European Union (EU)

Limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products (2004/42/EC, Deco-Paint Directive)

VOC content 9.198%

Directive on industrial emissions (VOCs, 2010/75/EU)

VOC content 9.198%

15.2 Chemical safety assessment:

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

SECTION 16: Other information

Abbreviations and acronyms

Acute Tox. Acute toxicity; **ADN** Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European agreement about the international transport of dangerous goods in inland waterways); **ADR** Accord européen relatif au transport international des marchandises dangereuses par route (European agreement about the international transport of dangerous goods in road systems); **Aquatic Acute** Hazardous to the aquatic environment (acute aquatic toxicity); **Aquatic Chronic** Hazardous to the aquatic environment (chronic aquatic toxicity); **ATE** Acute Toxicity Estimate; **BCF** Bioconcentration factor; **BSB** Biochemischer Sauerstoffbedarf (Biochemical oxygen demand); **CAS** Chemical Abstracts Service; **CLP** Regulation (EC) No. 1272/2008 about Classification, Labelling and Packaging) of substances and mixtures; **CMR** Carcinogenic, Mutagenic or toxic for Reproduction (krebserzeugend, erbgutverändernd oder fortpflanzungsgefährdend); **CSB** Chemischer Sauerstoffbedarf (Chemical oxygen demand); **DGR** Dangerous Goods Regulations, see IATA/ DGR; **DMEL** Derived Minimal Effect Level; **DNEL** Derived No-Effect Level; **EC no.** The EC inventory (EINECS, ELINCS and the NLP inventory) is the source for the seven-digit EC

no. as code for substances in the EU (European Union); **EINECS** European Inventory of Existing Commercial Chemical Substances; **ELINCS** European List of Notified Chemical Substances; **EmS** Emergency Schedule; **Eye Dam.** Serious eye damage; **Eye Irrit.** Eye Irritation; **Flam. Liq.** Flammable liquid; **GHS** "Globally Harmonized System of Classification and Labelling of Chemicals"; **IATA** International Air Transport Association IATA/DGR Dangerous Goods Regulations (DGR) for the air transport (IATA); **ICAO** International Civil Aviation Organization; **IMDG** International Maritime Dangerous Goods Code; **LGK** Storage category according to TRGS 510, Germany; **log POW** n-Octanol/water; **MARPOL** International convention for the prevention of pollution from ships (short for "Marine Pollutant"); **NLP** No-Longer Polymer; **PBT** Persistent, bioaccumulative and toxic; **PNEC** Predicted No-Effect Concentration; **REACH** Registration, Evaluation, Authorisation and Restriction of Chemicals; **RID** Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation concerning the carriage of dangerous goods by rail); **Skin Corr.** Skin corrosion; **Skin Irrit.** Skin irritation **Skin Sens.** Skin sensitisation; **STOT RE** Specific target organ toxicity, repeated exposure; **STOT SE** Specific target organ toxicity, single exposure; **TRGS** Technische Regeln für GefahrStoffe (technical regulations for hazardous substances, Germany); **TRGS 903** Biological limit values; **VOC** Volatile Organic Compounds; **vPvB** Very Persistent and very Bioaccumulative.

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/ environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The information in this safety data sheet is based on the present state of our knowledge and our findings but they are not any assurance of product qualities and do not create any contractual legal position. The information in this safety data sheet are only valid for the product described with its intended use.