

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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PRANA SPRAY 8 X 750 ML

WM 0713499

Order number: 0713499

Version 3.3

Revision Date 05.02.2021

Print Date 23.09.2021

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

1.1 Product identifier

Trade name : PRANA SPRAY 8 X 750 ML
Identification number : 61201

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

Use of the Substance/Mixture : Cleaning agent
Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Company : Tana Chemie GmbH
Rheinallee 96
55120 Mainz
Telephone : +49613196403
Telefax : +4961319642414
E-mail address : Produktsicherheit@werner-mertz.com
Responsible/issuing person
Contact person : Product development / product safety

1.4 Emergency telephone number

112
Centru za kontrolu otrovanja u Zagrebu na tel. (01) 2348 342
+49(0)6131-19240

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Skin irritation, Category 2 H315: Causes skin irritation.
Eye irritation, Category 2 H319: Causes serious eye irritation.
Long-term (chronic) aquatic hazard, Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

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Hazard statements	: H315 H319 H412	Causes skin irritation. Causes serious eye irritation. Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	: EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
Precautionary statements	: P102 Prevention: P260 P280 Response: P305 + P351 + P338 P337 + P313 P333 + P313 Disposal: P501	Keep out of reach of children. Do not breathe spray. Wear eye protection/ face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention. Dispose of contents/ container to an approved waste disposal plant.

Safety data sheet available on request.

2.3 Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous surfactant solution.

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
sodium hypochlorite	7681-52-9 231-668-3	Met. Corr. 1; H290 Skin Corr. 1B; H314 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 SCL	>= 1 - < 2
sodium xylenesulphonate	1300-72-7 215-090-9 01-2119513350-56	Eye Irrit. 2; H319	>= 1 - < 2

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Lauramine oxide (INCI)	308062-28-4 931-292-6 01-2119490061-47	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 2; H411	>= 0,025 - < 0,25
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For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	: Move to fresh air. If symptoms persist, call a physician.
In case of skin contact	: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
In case of eye contact	: Protect unharmed eye. If easy to do, remove contact lens, if worn. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	: Irritation
Risks	: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: For specialist advice physicians should contact the Poisons Information Service.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local
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circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products :
Chlorine compounds

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.
Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Neutralise with acid.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8., Treat recovered material as described in the section "Disposal considerations"., Refer to section 15 for specific national regulation.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

DNEL

sodium hypochlorite
7681-52-9:

: End Use: Consumers
Exposure routes: Oral
Potential health effects: Long-term systemic effects
Value: 0,26 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Local effects, Systemic effects
Value: 1,55 mg/m3

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Short-term exposure, Local effects, Systemic effects
Value: 3,1 mg/m3

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term exposure, Local effects, Systemic effects
Value: 1,55 mg/m3

sodium xylenesulphonate
1300-72-7:

: End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 26,9 mg/m3

End Use: Workers

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Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 136,25 mg/kg

End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term local effects
Value: 0,096 mg/cm2

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 6,6 mg/m3

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 68,1 mg/kg

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term local effects
Value: 0,048 mg/cm2

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term local effects
Value: 3,8 mg/kg

**Lauramine oxide (INCI)
308062-28-4:**

: End Use: Workers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 11 mg/kg

End Use: Workers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 15,5 mg/m3

End Use: Consumers
Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 5,5 mg/kg

End Use: Consumers
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 3,8 mg/m3

End Use: Consumers
Exposure routes: Ingestion
Potential health effects: Long-term systemic effects
Value: 0,44 mg/kg

PNEC

**sodium hypochlorite
7681-52-9:**

: Fresh water
Value: 0,21 mg/l

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	Marine water Value: 0,042 mg/l
	intermittent release Value: 0,26 mg/l
sodium xylenesulphonate 1300-72-7:	: Fresh water Value: 0,23 mg/l
	intermittent release Value: 2,3 mg/l
	STP Value: 100 mg/l
Lauramine oxide (INCI) 308062-28-4:	: Fresh water Value: 0,0335 mg/l
	Marine water Value: 0,00335 mg/l
	STP Value: 24 mg/kg
	Oral Value: 11,1 mg/kg
	Fresh water sediment Value: 5,4 mg/kg
	Marine sediment Value: 0,524 mg/kg
	Soil Value: 1,02 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : If splashes are likely to occur, wear:
Tightly fitting safety goggles

Hand protection

Material : For prolonged or repeated contact use protective gloves.
It is suggested the usage of chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1: 2003 (0,4 mm).
As alternative, a different type of gloves might be used if, accordingly to the recommendations of the producer, guarantee the same level of protection.

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace

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conditions (mechanical strain, duration of contact).

Skin and body protection : not required under normal use

Respiratory protection : Not required; except in case of aerosol formation.
Recommended Filter type:
ABEK-P3-filter

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform
respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: liquid
Colour	: light yellow
Odour	: slight chlorine
Odour Threshold	: No data available
pH	: ca. 11,4
Melting point/range	: No data available
Boiling point/boiling range	: No information available.
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Flammability (liquids)	: No data available
Burning rate	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: ca. 1,04 g/cm ³
Water solubility	: soluble
Solubility in other solvents	: No data available
Partition coefficient: n- octanol/water	: No data available
Ignition temperature	: No data available

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Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions., No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions., No decomposition if used as directed.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition products : No hazardous decomposition products are known.
Other information : No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Our company is strongly against animal testing.
Our company does not place any orders for animal testing for the finished product or the ingredients.
However, as a result of EU legislation (REACH Regulation), the manufacturers of ingredients or EU importers are obliged to test ingredients with regard to their effects on human health and the environment before they are brought onto the market. Some of the tests made necessary by this took place decades ago.

Product

Skin corrosion/irritation : May cause skin irritation and/or dermatitis.

Serious eye damage/eye irritation : Vapours may cause irritation to the eyes, respiratory system and the skin.
Causes serious eye irritation.

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Respiratory or skin sensitisation	: No data available
Germ cell mutagenicity	: Not Rated
Carcinogenicity	: Not Rated
Reproductive toxicity	: Not Rated
STOT - single exposure	: The substance or mixture is not classified as specific target organ toxicant, single exposure.
STOT - repeated exposure	: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration toxicity	: Not Rated
Further information	: No data available

Components:

sodium hypochlorite 7681-52-9:

Acute oral toxicity	: LD50 Mouse: 5.800 mg/kg
Acute dermal toxicity	: LD50 Rabbit: > 10.000 mg/kg

sodium xylenesulphonate 1300-72-7:

Acute oral toxicity	: LD50 Rat, male and female: > 7.000 mg/kg
Acute dermal toxicity	: LD50 Rabbit, male and female: > 2.000 mg/kg
Skin corrosion/irritation	: Species: Rabbit Method: OECD Test Guideline 404 Moderate skin irritation
Serious eye damage/eye irritation	: Species: Rabbit Method: OECD Test Guideline 405 Moderate eye irritation
Respiratory or skin sensitisation	: Species: Rabbit Result: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406
Carcinogenicity	: Species: Rat Application Route: Dermal Method: see user defined free text

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Reproductive toxicity	: Species: Rat Application Route: Oral NOAEL: > 936 mg/kg
Teratogenicity	: Species: Rat, male and female >936 mg/kg
Repeated dose toxicity	: NOAEL: > 440 mg/kg Exposure time: 90 d Method: see user defined free text NOAEL: 763 - 3.534 mg/kg Exposure time: 90 d Method: see user defined free text
Lauramine oxide (INCI) 308062-28-4:	
Acute oral toxicity	: LD50 Oral Rat: > 2.000 mg/kg Method: OECD Test Guideline 401 LD50 Oral Rat: 1.064 mg/kg
Acute dermal toxicity	: LD50 Dermal Rat: > 2.000 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation	: Species: Rabbit Result: irritating Method: OECD Test Guideline 404
Serious eye damage/eye irritation	: Species: Rabbit Result: Risk of serious damage to eyes. Method: OECD Test Guideline 405
Respiratory or skin sensitisation	: Test Method: Buehler Test Species: Guinea pig Result: Does not cause skin sensitisation. Method: OECD Test Guideline 406
Repeated dose toxicity	: Rat, male and female: NOAEL: 88 mg/kg Method: see user defined free text

SECTION 12: Ecological information

12.1 Toxicity

Components:
sodium hypochlorite

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7681-52-9:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,34 mg/l
Exposure time: 96 h

LC50 (Fish): 0,06 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,07 - 0,7 mg/l
aquatic invertebrates Exposure time: 24 h
Test Type: static test

EC50 (Daphnia magna (Water flea)): 0,141 mg/l
Exposure time: 48 h

M-Factor (Short-term (acute) : 10
aquatic hazard)

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 100 mg/l
Exposure time: 15 min

Toxicity to fish (Chronic toxicity) : NOEC: 0,04 mg/l
Species: Menidia peninsulae (tidewater silverside)

M-Factor (Long-term (chronic) : 1
aquatic hazard)

sodium xylenesulphonate 1300-72-7:

Toxicity to fish : LC50 (Fish): > 1.000 mg/l
Exposure time: 96 h
Method: see user defined free text

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): > 1.000 mg/l
aquatic invertebrates Exposure time: 48 h
Method: see user defined free text

Toxicity to algae : ErC50 (Selenastrum capricornutum): 310 mg/l
Exposure time: 72 h
Method: Directive 67/548/EEC, Annex V, C.3.

EC50 (Selenastrum capricornutum): > 230 mg/l
Exposure time: 96 h
Method: see user defined free text

Toxicity to bacteria : ErC50 (Bacteria): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

Lauramine oxide (INCI) 308062-28-4:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,67 mg/l
Exposure time: 96 h

LC50 (Fish): 3,46 mg/l
Exposure time: 96 h

NOEC (Fish): 0,42 mg/l

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	Exposure time: 302 d Method: OPPTS 850.1500
Toxicity to daphnia and other aquatic invertebrates	: (Daphnia magna (Water flea)): 10,4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 EC50 (Daphnia (water flea)): 3,1 mg/l Exposure time: 48 h NOEC (Daphnia (water flea)): 0,7 mg/l Exposure time: 21 d
Toxicity to algae	: EC50 (Scenedesmus capricornutum (fresh water algae)): 0,266 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 NOEC (Scenedesmus capricornutum (fresh water algae)): 0,067 mg/l Exposure time: 72 h EC50 (Pseudokirchneriella subcapitata (green algae)): 0,143 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Short-term (acute) aquatic hazard)	: 1
Toxicity to bacteria	: EC10 (Pseudomonas putida): 24 mg/l Exposure time: 18 h
Toxicity to fish (Chronic toxicity)	: NOEC: 0,42 mg/l Exposure time: 302 d Species: Fish
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,7 mg/l Exposure time: 21 d Species: Daphnia (water flea) Test Type: Reproduction Test Method: OECD Test Guideline 211

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The surfactant(s) contained in this preparation complies (comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

Components:

sodium xylenesulphonate
1300-72-7:

Biodegradability : Test Type: see user defined free text
Biodegradation: 99,8 %
Exposure time: 28 d
Method: OECD 301 B

Lauramine oxide (INCI)

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308062-28-4:

Biodegradability : Biodegradation: 90 %
Exposure time: 28 d
Method: OECD 301 B

Chemical Oxygen Demand (COD) : 360 mg/g

Dissolved organic carbon (DOC) : 123 mg/g

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

SECTION 14: Transport information

14.1 UN number

ADR : 1791
IMDG : 1791
IATA : 1791

14.2 Proper shipping name

ADR : HYPOCHLORITE SOLUTION
IMDG : HYPOCHLORITE SOLUTION
IATA : Hypochlorite solution Not permitted for transport

14.3 Transport hazard class

ADR : 8

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IMDG : 8
IATA : 8

14.4 Packing group

ADR

Classification Code : C9
Packaging group : III
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

IMDG

Packaging group : III
Labels : 8
EmS Number : F-A, S-B

IATA

(Cargo) : Hypochlorite solution Not permitted for transport
Packaging group : III
Labels : 8

14.5 Environmental hazards

ADR

Environmentally hazardous : no

IMDG

Marine pollutant : no

IATA

Environmentally hazardous : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : See Annex XVII to Regulation (EC) no 1907/2006 for Conditions of restriction

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

TA Luft List (Germany) : Total dust: Not applicable

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PRANA SPRAY 8 X 750 ML

WM 0713499

Order number: 0713499

Version 3.3

Revision Date 05.02.2021

Print Date 23.09.2021

	: Inorganic substances in powdered form: Not applicable
	: Inorganic substances in vapour or gaseous form: Not applicable
	: Organic Substances: : portionClass 1: < 0,01 %
	: Carcinogenic substances: Not applicable
	: Mutagenic: Not applicable
	: Toxic to reproduction: Not applicable
Volatile organic compounds (VOC) content	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Percent volatile: 1,76 % 1.953,05 g/l VOC content excluding water
Volatile organic compounds (VOC) content	: Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Update: Percent volatile: 1,76 % 18,35 g/l VOC content valid only for coating materials used on wood surfaces
according to Detergents Regulation EC 648/2004	: <5% Anionic surfactants, chlorine-based bleaching agents, Perfumes, BENZYL BENZOATE
GISBAU (D)	: GU 40

15.2 Chemical safety assessment

There is no data available for this product.

SECTION 16: Other information

Full text of H-Statements

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
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.

Further information

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Classification procedure:	H315	Calculation method
	H319	Calculation method
	H412	Calculation method

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; AICS -

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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