



Vesta-Syde® SQ Quaternary Ammonium Disinfectant

Safety Data Sheet

according to Regulation (EC) No. 453/2010

Date of issue: 03/10/2020

Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Trade name : Vesta-Syde® SQ Quaternary Ammonium Disinfectant
Product code : 6335
Product group : Trade product

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

1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only
Use of the substance/mixture : Hard surface disinfectant

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer:

STERIS Corporation
P. O. Box 147, St. Louis, MO 63166, US
Telephone Number for Information: 1-800-444-9009 (Customer Service-Scientific Products)
US Emergency Telephone No.1-314-535-1395 (STERIS); 1-800-424-9300 (CHEMTREC)

Supplier:

STERIS Ireland Limited
IDA Business and Technology Park
Tullamore
County Offaly
R35 X865
Ireland.
Product/Technical Information Phone No: +44 (0) 116 276 8636
Email: asksteris_msds@steris.com

1.4. Emergency telephone number

Emergency number : +44 (0) 1895 622 639

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flammable Liq/Vap	H226
Metals Corr.1	H290
Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Inhalation)	H332
Skin Corr. 1B	H314
Eye Dam. 1	H318
STOT SE 3	H335
Aq. Chronic 1	H410

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H226 - Flammable liquid and vapour
H290 - May be corrosive to metals
H302+H332 - Harmful if swallowed or if inhaled
H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation

Precautionary statements (CLP) :

H410 - Very toxic to aquatic life with long lasting effects
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe mist/vapours/spray.
P270 - Do not eat, drink or smoke when using this product
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing and eye/face protection
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor/physician
P501 - Dispose of contents/container to comply with applicable local, national and international regulation

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Didecyldimethylammonium chloride	(CAS No) 7173-51-5 (EC no) 230-525-2 (EC index no) 612-131-00-6	7 - 13	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Ethanolamine	(CAS No) 141-43-5 (EC no) 205-483-3 (EC index no) 603-030-00-8 (REACH No) 01-2119486455-28-0038	5 - 10	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Skin Corr. 1B, H314 STOT SE 3, H335
n-Propanol	(CAS No) 71-23-8 (EC no) 200-746-9 (EC index no) 603-003-00-0	1 - 5	Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336
1-Octanamine, N,N-dimethyl-, N-oxide	(CAS No) 2605-78-9 (EC no) 607-854-9 (REACH No) 01-2119409076-45-0002	1 - 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
Alanine, N,N-bis(carboxymethyl)-, trisodium salt	(CAS No) 164462-16-2 (EC no) 605-362-9	1 - 5	Skin Corr. 1B, H314 Aquatic Chronic 3, H412
Ethanol substance with national workplace exposure limit(s) (AT, BE, BG, CZ, DE, DK, ES, ET, FI, FR, GB, GR, HU, IE, IT, LT, LV, NL, PL, PT, RO, SE, SK, SL)	(CAS No) 64-17-5 (EC no) 200-578-6 (EC index no) 603-002-00-5 (REACH-no) 01-2119457610-43-XXXX	0,5 - 1,5	Flam. Liq. 2, H225

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible)

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First-aid measures after inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Immediately get medical attention
First-aid measures after skin contact	: Immediately flush skin with plenty of water for at least 15 minutes. Remove/Take off immediately all contaminated clothing. Obtain medical attention if irritation persists
First-aid measures after eye contact	: In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. In all cases of doubt, or when symptoms persist, seek medical advice
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Give water to drink if victim completely conscious/alert. Immediately call a POISON CENTER or doctor/physician

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

Symptoms/injuries	: Corrosive to eyes and skin. Causes severe skin burns and eye damage
Symptoms/injuries after skin contact	: Severe skin irritant. Effects of skin contact may include: irritation and burn feeling
Symptoms/injuries after eye contact	: Causes serious eye damage

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing media appropriate for surrounding fire. Foam. Dry powder. Carbon dioxide. Water spray. Sand
Unsuitable extinguishing media	: Do not use a heavy water stream

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not sustaining combustion. Flash point (°C): 44
Hazardous decomposition products in case of fire	: Thermal decomposition generates : Fume. Carbon monoxide. Carbon dioxide. Nitrogen oxides

5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Use water spray or fog for cooling exposed containers
Protective equipment for firefighters	: Use self-contained breathing apparatus. Do not enter fire area without proper protective equipment, including respiratory protection

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Do not breathe fumes, vapors. Avoid contact with skin, eyes and clothes
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6.1.1. For non-emergency personnel

Protective equipment	: Wear protective gloves and eye/face protection. For further information refer to section 8 : Exposure-controls/personal protection
Emergency procedures	: Stop leak if safe to do so. Evacuate unnecessary personnel

6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection
Emergency procedures	: Ventilate area

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Leftovers: neutralize with sodium bicarbonate. Neutralise with dry sodium carbonate. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials
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6.4. Reference to other sections

See Heading 8: Exposure controls and personal protection

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Read label before use. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe gas, fumes, vapour or spray.
Hygiene measures	: Wash hands thoroughly after handling. Take care for general good hygiene and housekeeping. Do not eat, drink or smoke when using this product

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: A washing facility/water for eye and skin cleaning purposes should be present. Provide adequate ventilation. Comply with applicable regulations
Storage conditions	: Keep only in the original container in a cool, well ventilated place. Keep out of reach of children. Store away from freezing (avoid freezing during storage). Keep container tightly closed. If frozen, thaw and mix thoroughly before use
Storage area	: Store in dry, cool, well-ventilated area
Special rules on packaging	: Correctly labelled

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ethanol (64-17-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	1884 mg/m ³
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	1000 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	1000 ppm
USA IDLH	US IDLH (ppm)	3300 ppm (10% LEL)
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1900 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	1000 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	1900 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	1000 ppm
United Kingdom	WEL TWA (mg/m ³)	1920 mg/m ³
United Kingdom	WEL TWA (ppm)	1000 ppm
United Kingdom	WEL STEL (mg/m ³)	5760 mg/m ³ (calculated)
United Kingdom	WEL STEL (ppm)	3000 ppm (calculated)

n-Propanol (71-23-8)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	100 ppm
USA IDLH	US IDLH (ppm)	800 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	500 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	625 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	500 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm
United Kingdom	WEL TWA (mg/m ³)	500 mg/m ³
United Kingdom	WEL TWA (ppm)	200 ppm
United Kingdom	WEL STEL (mg/m ³)	625 mg/m ³
United Kingdom	WEL STEL (ppm)	250 ppm

Ethanolamine (141-43-5)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	3 ppm
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	6 ppm
USA IDLH	US IDLH (ppm)	30 ppm
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	8 mg/m ³
USA NIOSH	NIOSH REL (TWA) (ppm)	3 ppm
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	15 mg/m ³
USA NIOSH	NIOSH REL (STEL) (ppm)	6 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	6 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	3 ppm
United Kingdom	WEL TWA (mg/m ³)	2,5 mg/m ³
United Kingdom	WEL TWA (ppm)	1 ppm
United Kingdom	WEL STEL (mg/m ³)	7,6 mg/m ³
United Kingdom	WEL STEL (ppm)	3 ppm

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8.2. Exposure controls

- Appropriate engineering controls : Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure
- Personal protective equipment : Personal protective equipment should be selected based upon the conditions under which this product is handled or used. The following pictograms represent the minimum requirements for personal protective equipment. Protective clothing. Gloves. Protective goggles



- Hand protection : Wear rubber gloves
- Eye protection : Chemical goggles or safety glasses
- Skin and body protection : Wear suitable protective clothing
- Respiratory protection : Work in well-ventilated zones or use proper respiratory protection. Wear appropriate mask
- Other information : Do not eat, drink or smoke during use

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear
- Colour : Light yellow
- Odour : Mild odor. Characteristic
- Odour threshold : No data available
- pH : 11,7 Alkali (lye), concentrated
- pH solution : 10.9 1% Solution
- Relative evaporation rate (butylacetate=1) : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : 44 °C The sustaining combustion test for liquids was carried out (liquid does not sustain combustion). The result is negative
- Self ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Not sustaining combustion
- Vapour pressure : No data available
- Relative vapour density at 20 °C : No data available
- Relative density : No data available
- Density : ca. 0,984 Specific Gravity
- Solubility : Water: completely soluble
- Log Pow : No data available
- Log Kow : No data available
- Viscosity, kinematic : No data available
- Viscosity, dynamic : No data available
- Explosive properties : No data available
- Oxidising properties : No data available
- Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates: Corrosive vapours

10.2. Chemical stability

Stable under normal conditions of use. Recommended storage temperature

10.3. Possibility of hazardous reactions

Not established

10.4. Conditions to avoid

Store in a cool dry place. Avoid Freezing. Direct sunlight. Extremely high or low temperatures

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10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Thermal decomposition generates: Carbon dioxide. Carbon monoxide. Nitrogen oxides. Corrosive vapours. Fume

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed. Harmful if inhaled

Vesta-Syde® SQ Quaternary Ammonium Disinfectant	
LD50 oral	1030 mg/kg
LD50 dermal	> 5000 g/kg
LC50 inhalation rat (mg/l)	> 5,18 mg/l
ATE (oral)	500,000 mg/kg bodyweight
ATE (dust,mist)	1,500 mg/l/4h

Ethanol (64-17-5)	
LC50 inhalation rat (mg/l)	124,7 mg/l/4h
ATE (dust,mist)	124,700 mg/l/4h

n-Propanol (71-23-8)	
LD50 oral rat	1870 mg/kg
LC50 inhalation rat (ppm)	> 13548 ppm/4h

Didecyldimethylammonium chloride (7173-51-5)	
ATE (oral)	500,000 mg/kg bodyweight

Ethanolamine (141-43-5)	
LD50 oral rat	1720 mg/kg
LD50 dermal rabbit	1 ml/kg
ATE (oral)	500,000 mg/kg bodyweight
ATE (dermal)	1100,000 mg/kg bodyweight
ATE (dust,mist)	1,500 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage pH: 11,7 Alkali (lye), concentrated
Serious eye damage/irritation	: Causes serious eye damage pH: 11,7 Alkali (lye), concentrated
Respiratory or skin sensitisation	: Not classified Based on available data, the classification criteria are not met
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
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
Specific target organ toxicity (single exposure)	: May cause respiratory irritation Based on available data, the classification criteria are not met
Specific target organ toxicity (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
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - General : Toxic to aquatic life.

Ethanol (64-17-5)	
LC50 fishes 1	15300 mg/l (US EPA method E03-05, dynamic, 48h)
LC50 other aquatic organisms 1	5012 (Daphnia) (ASTME 729-80, static, 48h)
EC50 other aquatic organisms 2	5800 (Bacteria) (Rajini, et al., 1989, 4h)

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ErC50 (algae)	275 mg/l (OECD 201, 3d)
NOEC chronic fish	245 (QSAR, 30d)
NOEC chronic crustacea	9,6 mg/l (Daphnia) (Mount & Norberg, 1984, 9d)

n-Propanol (71-23-8)

LC50 fishes 1	4480 mg/l (Exposure time: 96 h - Species: Pimephales promelas [Flow-through])
EC50 Daphnia 1	3642 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 Daphnia 2	3339 - 3977 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])

Ethanolamine (141-43-5)

LC50 fishes 1	227 mg/l (Exposure time: 96 h - Species: Pimephales promelas [Flow-through])
EC50 Daphnia 1	65 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	15 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)
LC50 fish 2	3684 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [Static])

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established
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Ethanol (64-17-5)

Log Kow	-0,35 (Shake Flask method OECD 107)
Bioaccumulative potential	Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected

n-Propanol (71-23-8)

Log Pow	0,25 - 0,34
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Ethanolamine (141-43-5)

Log Pow	-1,91 (at 25 °C)
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Component	
Ethanol (64-17-5)	This substance/mixture does not meet the PBT criteria of REACH, annex XIII This substance/mixture does not meet the vPvB criteria of REACH, annex XIII

12.6. Other adverse effects

: Avoid release to the environment

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations
Additional information	: Empty containers should be thoroughly rinsed with large quantities of clean water. Dispose of empty containers and wastes safely. Dispose in a safe manner in accordance with local/national regulations
Ecology - waste materials	: Avoid release to the environment

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No	: 1903
UN-No.(IATA)	: 1903
UN-No. (IMDG)	: 1903

14.2. UN proper shipping name

Proper Shipping Name	: DISINFECTANT, LIQUID, CORROSIVE, N.O.S.
Transport document description	: UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary Ammonium Compounds), 8, III

14.3. Transport hazard class(es)

Class (UN)	: 8
Class (IMDG)	: 8

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Hazard labels (UN) : 8



14.4. Packing group

Packing group (UN) : III

14.5. Environmental hazards

Other information : No supplementary information available

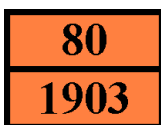
14.6. Special precautions for user

14.6.1. Overland transport

Hazard identification number (Kemler No.) : 80

Classification code (UN) : C9

Orange plates :



Special provision (ADR) : 274

Transport category (ADR) : 3

Tunnel restriction code : E

Limited quantities (ADR) : 5L

Excepted quantities (ADR) : E1

EAC code : 2X

14.6.2. Transport by sea

Ship Safety Act : UN 1903 DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Quaternary Ammonium Compounds), 8, III

14.6.3. Air transport

No additional information available

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

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

No REACH Annex XVII restrictions

Contains no REACH candidate substance

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

Revision date : 03/10/2020

Sources of Key data : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Other information : None

Full text of H- and EUH-phrases:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

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Flam. Liq. 2	Flammable liquids, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity (single exposure), Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H290	May be corrosive to metals
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

SDS EU (REACH Annex II)

The information on this sheet is not a specification and does not guarantee specific properties. The information is intended to provide general knowledge as to health and safety based upon our knowledge of the handling, storage and use of the product. It is not applicable to unusual or non-standard uses of the product or where instruction or recommendations are not followed.