according to Regulation (EC) No.1907/2006

### **SANIGUARD**

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#### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** 

Trade name: SaniGuard

Registration Number: NRCS Registration: NRCS/8054/281852/1202
Product description: Didecyldimethyl Ammonium Chloride disinfectant.

Other identifiers: DDAC 2.4%

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

Relevant identified uses: Disinfectant for the control of pathogens. Uses advised against: No specific uses advised against are identified.

Details of the supplier of the safety data sheet

Supplier Name: DF Trading CC

Address: 110, Ravel Street – Mantervrede AH, Vanderbijlpark - 1911, South Africa

Telephone: +27 16 987 7777 E-mail: info@dynafogafrica.co.za

**Emergency telephone number** 

South Africa Health Emergency: +27 086 155 5777 (Poison Information Helpline: 24 h)

Customer Service: +27 016 987 8787 (Dyna Fog Africa Sales and Technical Information: Monday

- Friday, 08:00 - 17:00)

#### 2. HAZARDS IDENTIFICATION

# Classification of the substance or mixture

**Health Hazards** 

Skin corrosion/Skin Irritation, Category 2: H315: Causes skin irritation.
Serious Eye Damage/Eye Irritation, Category 2: H319: Causes serious eye irritation.

Label elements

Hazard pictograms:

Signal word: Warning

Hazard statements: H315: Causes skin irritation.

H319: Causes serious eye irritation.

Prevention precautionary statements: P264 + 265: Wash hands and face thoroughly after handling. Do not touch

eyes.

P280: Wear protective gloves, protective clothing, eye protection and face

protection.

Response precautionary statement: P302 + P352: IF ON SKIN: Wash with plenty of water and neutral soap.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321: Specific treatment (see section First-aid measures on this label).

P332 + P317: If skin irritation occurs: Get medical help. P337 + P317: If eye irritation persists: Get medical help.

P362 + P364: Take off contaminated clothing and wash it before reuse.

Storage precautionary: P403: Store in a well-ventilated place.

Disposal precautionary statement: P501: Dispose of contents and container in accordance with local regulations.

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#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Mixture** 

Description: A mixture containing 2.4 % (w/v) of Didecyldimethylammonium Chloride.

Dangerous components:

Name	CAS No.	Classification according to Reg. (EC) 1272/2008 (CLP)	Hazard statement	% (w/v)
Didecyldimethyl ammonium	7173-51-5	Acute Tox. 4 (Oral)	H302	2.4
chloride		Skin Corr. 1B	H314	
Isotridecanol, ethoxylated	69011-36-5	Aquatic Acute 1	H400; M=1	< 2
		Aquatic Chronic 3	H412;	

Additional information: Values are not product specifications. Ingredients not identified are proprietary or do

not contribute to the classification. For the full wording of abbreviations and hazard

statements, refer to section 16.

#### 4. FIRST-AID MEASURES

**Description of first aid measures** 

General advice: If medical advice is needed, have the product container or label at hand. If symptoms develop or

persist get medical help.

First-aid responders: First-aid responders should pay attention to self-protection and use the recommended personal

protective equipment when the potential for exposure exists (refer to section 8).

After inhalation: If vapours or mists have been inhaled, move the person to fresh air, away from the immediate

source of exposure. Loosen any tight clothing, if worn. Keep the person warm, at rest and under observation. If the person is not breathing, call an ambulance, then give artificial respiration. If

breathing is difficult or irregular, administer oxygen.

After skin contact: In case of contact with skin, remove and isolate contaminated clothing and shoes. Rinse affected

areas gently and thoroughly with neutral, non-abrasive soap and large amounts of running water. Clean contaminated clothing and shoes before reuse. If skin irritation develops or persists, get

medical help.

After eye contact: In case of contact with eyes, rinse cautiously with large amounts of running water for at least 20

minutes, while holding eyelids apart. Remove contact lenses, if presented and easy to do.

Continue rinsing. If eye irritation persists, get medical attention.

After ingestion: If the product has been swallowed, rinse the mouth. Do not induce vomiting, unless directed to

do so by the poison center or doctor. Do not leave the person unattended. If vomiting occurs, have the person lean forward. Never give anything by mouth to an unconscious person.

nave the percent learner ward. Never give anything by mount to an arrest

# Most important symptoms and effects, both acute and delayed

The effects of exposure (inhalation, skin contact or ingestion) to the substance may be delayed. Exposure can lead to irritation, burning, eye pain, conjunctivitis, swelling of the eye and swelling of the eyelid. Prolonged skin contact may cause irritation, burning, rash, itching and blistering.

#### Indication of any immediate medical attention and special treatment needed

There is no specific antidote available. Treat symptomatically and supportively.

#### 5. FIREFIGHTING MEASURES

**Extinguishing media** 

Suitable extinguishing media: Fine sprays, carbon dioxide (CO2), alcohol-resistant foam and dry chemical powder.

Unsuitable extinguishing media: Water jets.

### Special hazards arising from the substance or mixture

May produce nitrogen oxides, ammonia, hydrogen chloride and carbon dioxide on combustion.

#### Advice for firefighters

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Protective equipment: Firefighters and other personnel who may be exposed should wear positive pressure

self-contained breathing apparatus (SCBA) in combination with fire kits, firefighter gloves and firefighter footwear, especially when fighting a large fire.

Protective actions:

Do not breathe fumes or vapours. Evacuate the surrounding area and keep

unnecessary and unprotected personnel away. Ventilate confined areas before entering. Contain the fire if properly trained and equipped. Use extinguishing measures that are appropriate to the type of fire, local circumstances and surrounding environment. Fight fire from a safe distance, from an upwind, uphill and/or upstream position. Water spray may be used to cool unopened containers exposed to heat but avoid water coming in contact with the product. Remove undamaged containers from the site if it is safe to do so. If a leak or spill has not ignited, use water spray to disperse vapours and to protect people stopping the leak. Contain fire control materials for later disposal and avoid their release to the aquatic environment, keeping them out of sewers, watercourses and drinking water supplies. If risk of water pollution occurs, notify appropriate authorities. Clean all contaminated clothing before re-use. If contaminated clothing cannot be adequately decontaminated, dispose of as hazardous waste.

Emergency Action Code (EAC): 2X

#### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions: Avoid contact with skin and eyes. Avoid inhalation of vapours and mists. Do not touch

contaminated surfaces or walk into spilt material.

Non-emergency personnel: Do not attempt to act without training. Keep unnecessary and unprotected personnel

away. Notify emergency responders and leave the area.

Emergency responders: Keep unnecessary and unprotected personnel away. Remove all ignition sources.

Provide adequate ventilation, especially in confined areas. Wear protective gloves, protective clothing, eye protection, face protection and respiratory protective equipment.

Suitable fabrics include impervious cotton, cotton blends and PVC.

**Environmental precautions** 

Application: Do not apply directly to water, or to areas where surface water is present. Drift and

runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. The use of this chemical in areas where soils are permeable, may result in groundwater contamination. Application around a cistern or well may result in

contamination of drinking water or groundwater.

Spillages: Prevent spilled material from entering waterway and sewer systems. Collect and

dispose of dyke materials (e.g. dry sand, containment oil, etc.) in accordance with local regulations. Notify appropriate authorities immediately if large spillages have contaminated surface water, drains, watercourses, sewer systems, or groundwaters.

Methods and materials for containment and cleaning up

Containment: For large spills, suppress vapours, or mists with a water spray jet. If it is safe to do so,

prevent further leakage or spillage by stopping the flow of the product. To prevent the product from spreading over a wide area or into the environment, seal surrounding drains and contain the leakage or spillage using inert materials. If dyked material can be recovered, store it in a sealed waste container for subsequent disposal. Label containers containing hazardous waste and materials employed in the cleanup of releases. Remove containers from the area as soon as possible. Clean contaminated objects and floors thoroughly, observing environmental regulations. Local authorities

should be advised if significant spillages cannot be contained.

Cleaning-up: Soak up small spillages with inert absorbent material (e.g. cloth, fleece, dry sand,

sawdust, etc.) immediately. Clean the surface thoroughly to remove residual contamination. Never reuse or return spills to original containers. Collect, store, and dispose of contaminated materials properly, as they may pose the same hazard as this

chemical.

## Reference to other sections

For information regarding safe handling, refer to section 7. For information regarding individual protection measures, refer to section 8. For information regarding waste disposal, refer to section 13.

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#### 7. HANDLING AND STORAGE

Precautions for safe handling

Recommendations: Do not handle until all safety precautions have been put in place. Wear protective

gloves, protective clothing, eye protection, face protection and respiratory protective equipment. Avoid contact with skin and eyes. Avoid inhalation of vapours and mists. Handle and open containers with care to avoid spills, waste, and release to the environment. Keep containers tightly closed when not in use. Do not reuse empty containers. Applicators must refer to the directions of use on the product's label. For

further advice, contact the registration holder.

General hygienic measures: Do not eat, drink or smoke whilst handling this product. Wash hands and face

immediately after handling this product and before eating, drinking, smoking, or using the toilet. Remove clothing and personal protective clothing equipment before leaving

the working area.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, dry and well-ventilated place. Keep in the original labelled container.

Keep containers upright and tightly closed. Prevent containers from freezing and from physical damage. Keep out of reach of unauthorized persons, children, or animals. Store in such a manner as to prevent cross-contamination. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should

be leak-tight, jointless and not absorbent.

Conditions to avoid: Do not store under direct sunlight or close to heat. Do not store close to incompatible

materials, food, animal feeding stuff, fertilizers, pharmaceuticals, cosmetics, or water

supplies.

Packaging materials: High-density polyethylene (HDPE)

Incompatible substances: Strong oxidizing agents, strong reducing agents and anionic detergents.

Further information: Refer to local regulations to comply with quantity limits of hazardous chemicals under

storage.

Specific end uses(s)

General disinfection of bacteria: Enterococcus hirae, Escherichia coli, Pseudomonas aeruginosa, Staphylococcus

aureus, Salmonella tranaroa.

General disinfection of fungus: Aspergillus brasiliensis, Candida albicans.

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

These precautions are suggested for conditions where the potential for exposure exists. Emergency conditions may require additional precautions. Comply with occupational safety, environmental, fire and other applicable local regulations.

#### **Control parameters**

Legal basis	Components	CAS-No.	Control parameters
EFSA	Didecyldimethylammonium Chloride	7173-51-5	ADI: 0.1 mg/kg bw/day
	Isotridecanol, ethoxylated	69011-36-5	ADI: not evaluated
REACH	Didecyldimethylammonium Chloride	7173-51-5	DNEL (workers, inhalation and dermal) - systemic effects, long and short term: No hazard identified DNEL (workers, inhalation and dermal) - local effects, long and short term: Medium hazard (no threshold derived)  DNEL (workers, eye): Medium hazard (no threshold derived)  DNEL(general population, inhalation, dermal, oral and eye) – systemic and local effects, long and short term: No hazard identified
	Isotridecanol, ethoxylated	69011-36-5	DNEL (workers, inhalation) - systemic effects, long term: 37 mg/m³ DNEL (workers and general population, inhalation) - systemic effects, short term: No hazard identified

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<u>,                                      </u>
DNEL (workers and general population, inhalation) - local
effects, long and short term: No hazard identified
DNEL (workers, dermal) - systemic effects, long term:
263 mg/kg bw/day
DNEL (workers and general population, dermal) -
systemic effects, short term: no hazard identified
DNEL (workers and general population, dermal) - local
effects, long and short term: No hazard identified
DNEL (workers and general population, eye): no hazard
identified.
DNEL (general population, inhalation) - systemic effects,
long term: 6.53 mg/m <sup>3</sup>
DNEL (general population, dermal) - systemic effects,
long term: 93.8 mg/kg bw/day
DNEL (general population, oral) – systemic effects, long
term: 2.5 mg/kd bw/day.
DNEL (general population, oral) – systemic effects, long
term: No hazard identified.
10

Additional information:

For the full wording of abbreviations, refer to section 16. Monitoring of the concentration of substances in the workplace may be required to confirm compliance with OEL and the adequacy of exposure controls.

#### **Exposure controls**

#### Appropriate engineering controls

Eyewash stations should be available in the vicinity of use or handling. Provide adequate ventilation or other engineering controls to keep the airborne concentrations of vapours and mist below the applicable workplace exposure limits indicated above, especially in confined areas.

#### Individual protection measures

General hygienic measures: Do not eat, drink or smoke whilst handling this product. Wash hands and face

immediately after handling this product. Use appropriate degowning techniques to remove potentially contaminated clothing. Wash contaminated clothing and personal protective equipment before reuse. Contaminated work clothing should not be allowed out of the workplace. Dispose of clothing and other absorbent materials that have been drenched or heavily contaminated with this mixture in accordance with local regulations. Wear tight-fitting, chemical splash goggles, face shield or other full-face protection to

Eye/face protection: Wear tight-fitting, chemical splash goggles, face shield or other full-face prote

prevent eye and face contact with vapours, mists or splashes.

Hand protection: Wear chemical-resistant, impervious gloves with a minimum thickness of 5 mm. Nitrile

rubber gloves may be used.

Respiratory protection: Where exposure through inhalation may occur, wear a full-face mask, half mask or

quarter mask respirators with replaceable filter cartridges. N95, R95, or P95 filters may

be used.

Body protection: Wear appropriate chemical-resistant overalls, footwear, and socks. Additional body

garments should be used based on the task being performed, e.g. PVC rain suites for

chemical loading, off-loading, or dilution.

### Environmental exposure controls

Keep containers tightly closed when not in use. Avoid release to the environment.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state: Liquid, homogenous

Colour: Colourless
Odour: Slight bitter smell

Melting point/freezing point: Didecyldimethylammonium Chloride: 94 - 205 °C at 101.3 kPa

Boiling point/boiling range: Not available

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Flammability: Combustible Ignition temperature: Not available Explosive properties: Not applicable **Explosion limits:** Not applicable

Flash point: Didecyldimethylammonium Chloride: 26.4 °C at 103.6 kPa Didecyldimethylammonium Chloride: 350 °C at 104.7 kPa Auto-ignition temperature:

Decomposition temperature: Didecyldimethylammonium Chloride: 180 °C

pH-value: pH 5 - 8 at 20 °C (undiluted)

Viscosity: Not available

Solubility in/miscibility with water: Didecyldimethylammonium Chloride:: 390 - 650 mg/L at 20 °C and pH 7

Segregation coefficient (n-octanol/water): Kowlog P = -0.41 - 2.59 at 20 °C and pH 7

Vapor pressure: Didecyldimethylammonium Chloride:: 0.001 - 0.006 Pa at 20 - 25 °C

Density: Didecyldimethylammonium Chloride:: 0.870 - 0.909 at 20 °C

Vapour density: Not available

Other information

Surface tension: Didecyldimethylammonium Chloride: 25.82 - 27 mN/m at 1 g/L and 20 °C

#### 10. STABILITY AND REACTIVITY

Reactivity: No data available

Chemical stability: Chemically stable under standard use and storage conditions.

Possibility of hazardous reactions: May react with strong oxidizing agents, strong reducing agents and anionic

detergents.

Conditions to avoid: Excessive heating.

Strong oxidizing agents, strong reducing agents and anionic detergents. Incompatible materials:

Hazardous decomposition products: May produce nitrogen oxides, ammonia, hydrogen chloride and carbon dioxide

on combustion.

# 11. TOXICOLOGICAL INFORMATION

# Information on toxicological effects

Didecyldimethylammonium Chloride

Acute oral: LD50 - rat: 238 mg/kg bw LD50 - rat: 3342 mg/kg bw Acute dermal:

Acute inhalation: No data available

Skin corrosion/skin irritation: Rabbit - Adverse effect observed (corrosive) Serious eye damage/eye irritation: Rabbit - No adverse effect observed (not irritating)

Respiratory irritation/corrosion: No data available

No adverse effect observed (not sensitising) Skin sensitization:

Salmonella typhimurium: No adverse effect observed (non-mutagenic) Germ cell mutagenicity:

Carcinogenicity: NOAEL oral, chronic - rat 55.4 mg/kg bw/day Reproductive toxicity: NOAEL fertility, sub-acute - rat: 30 mg/kg bw/day

NOAEL developmental, sub-acute - rat: 0.8 mg/kg bw/day

STOT – single exposure: STOT – repeated exposure: No data available

NOAEL oral, chronic - dog: 10 mg/kg/day

Aspiration hazard: No data available

Isotridecanol, ethoxylated

LD50 - rat: > 2000 mg/kg bw Acute oral: LD50 - rat: > 2000 mg/kg bw Acute dermal:

Acute inhalation: No data available

Skin corrosion/skin irritation: Rabbit: No adverse effect observed (not irritating) Serious eye damage/eye irritation: Rabbit: No adverse effect observed (not irritating)

Respiratory irritation/corrosion: No data available

Skin sensitization: Guinea pig: No adverse effect observed (not sensitising)

Germ cell mutagenicity: Peripheral human lymphocytes: No adverse effect observed (non-mutagenic)

Carcinogenicity: No data available

NOAEL fertility, subacute - rat: 500 mg/kg bw/day Reproductive toxicity:

NOAEL developmental, subacute - rat: 750 mg/kg bw/day

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STOT – single exposure: NOAEL oral, sub chronic - rat: 500 mg/kg bw/day

STOT – repeated exposure: No data available Aspiration hazard: No data available

Information on other hazards

Endocrine-disrupting properties: Substances of the mixture are not identified as having endocrine-disrupting properties.

#### 12. ECOLOGICAL INFORMATION

#### Toxicity

Didecyldimethylammonium Chloride

Fish: LC50 (96h) - Danio rerio (zebra fish): 0.49 mg/L Aquatic invertebrates: EC50 (48h) - Daphnia magna (water flea): 0.029 mg/L

Algae and cyanobacteria: EC50 (96h) - Pseudokirchneriella subcapitata (green algae): 0.062 mg/L

Earthworms: EC50 (28 days) - Eisenia fetida (manure warm): 509 mg/kg soil

Birds: No data available. Bees: No data available.

Isotridecanol, ethoxylated

Fish: LC50 (96h) - Danio rerio (zebra fish): 1.1 mg/L

Aquatic invertebrates: EC50 (48h) - Daphnia magna (water flea): 0.544 mg/L

Algae and cyanobacteria: EC50 (72h) - Desmodesmus subspicatus (green algae): 3.4 mg/L Earthworms: NOEC (56 days) - Eisenia fetida (manure warm): 125 mg/kg soil

Birds: No data available.

Bees: No data available.

# Persistence and degradability

Didecyldimethylammonium Chloride

Hydrolysis: Half-life: 1 year at 20 °C

Biodegradation in water:

Biodegradation in water:

Biodegradation in water sediments:

Biodegradation in water sediments:

Biodegradation in soil:

Half-life: 20.8 days at 12 °C

Henry's law constant:

H: 0 Pa m³/mol at 20 °C

Isotridecanol, ethoxylated

Hydrolysis:

Biodegradation in water:

Biodegradation in water sediments:

Biodegradation in soil:

Biodegradation in soil:

Adsorption/desorption:

Henry's law constant:

No data available

No data available

Koc: 441.7 at 20 °C

No data available

### **Bioaccumulative potential**

Didecyldimethylammonium Chloride

Segregation coefficient (n-octanol/water): Log Kow: 2.8 at 20 °C

Bioconcentration factor: BCF – aquatic species: > 2000

Isotridecanol, ethoxylated

Segregation coefficient (n-octanol/water): Log Kow: 4.73 at 25 °C Bioconcentration factor: No data available

#### Mobility in soil

Didecyldimethylammonium chloride has little or no potential for mobility in soil and should not pose an environmental risk for contamination of groundwater. No mobility studies are available for Isotridecanol, ethoxylated.

# 13. DISPOSAL CONSIDERATIONS



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#### Waste treatment methods

Residues disposal

Protective measures: The safety precautions applied to the handling of the product shall be considered when disposing

of residues. For further details, refer to section 7.

Method: Do not burn residues. Do not dispose of residues with normal waste, or to sewer systems.

Surplus product, spray mixture, rinse water or any residue which cannot be used according to

label instructions shall be properly disposed of according to local regulations.

Recommendations: To reduce the problems associated with the disposal of hazardous chemicals, consider

purchasing quantities limited to the amounts needed. Prepare only as much product as needed

at each application, following the instructions of use.

Container disposal

Protective measures: Care should be taken when handling empty containers that have not been thoroughly cleaned or

rinsed out. Empty containers may retain vapours and product residues and hence be potentially hazardous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers that were not thoroughly rinsed or cleaned to heat, flame, sparks or other sources of ignition. They may

explode and cause injury and/or death.

Method: Do not burn empty containers. Do not reuse empty containers for any other purpose. Do not

dispose of contaminated containers in normal waste. Used containers shall be closely secured and stored until they can be safely disposed of. If possible, triple rinse or pressure rinse contaminated containers. If recycling facilities are available, deliver decontaminated containers to the designated collection point. If recycling facilities are not available, puncture, break or crush decontaminated containers to avoid reuse and provide appropriate disposal in accordance with

local regulations.

Sewage disposal

Do not wash or dispose of untreated waste, spillages, residues or product surplus into sewers or water systems.

Other disposal recommendations

The generation of waste should be minimised or avoided wherever possible. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area.

#### 14. TRANSPORT INFORMATION



Transport pictogram:

UN Number or ID number: UN3142

UN proper shipping name: DISINFECTANT, LIQUID, TOXIC, N.O.S., (Didecyldimethyl Ammonium Chloride)

Transport hazard class(es): 6.1 Poisc

Packaging group: III Substances presenting low danger

Environmental hazards: No

Maritime transport in bulk: Not applicable

## 15. REGULATORY INFORMATION

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

National regulations: Registered under the National Regulator for Compulsory Specification (NRCS) for

chemical disinfectants as published by Government Notice No. 1119 (Government Gazette No. 41186) on 20 October 2017. NRCS Registration: NRCS/8054/281852/

1202.

In compliance with Occupational Health and Safety Act (85/1993): Regulations for Hazardous Chemical Agents, 2021, published by Government Notice No. 11263

(Government Gazette No. 44348) on 29 March 2021.

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Other regulations: In compliance with Regulation (EC) No.1907/2006 of the European Parliament and of

the Council on 18 December 2006.

Reference documents: Globally Harmonized System of Classification and Labelling of Chemicals (GHS), 2021.

Dangerous Goods Emergency Action Code List (TDG), 2021

#### Chemical safety assessment

For this product, a chemical safety assessment was not carried out.

#### 16. OTHER INFORMATION

#### Revisions

Version	Date issued	Updates	
1	01.07.2022	GHS classification and labelling of chemicals compliance.	

#### Full text of H-Statements listed

H302 Harmful if swallowed

H314 Causes severe skin burns and eye damage

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long-lasting effects

#### Full text of abbreviations of hazard categories listed

Acute Tox. Acute (short-term) toxicity
Aquatic Acute
Aquatic Chronic (short-term) aquatic toxicity
Chronic (long-term) aquatic toxicity

Skin Corr. Skin corrosion

#### Full text of abbreviations of control parameters listed

ADI Acceptable Daily Intake
DNEL Derived No-Effect Level

EFSA European Food Safety Authority

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals

# Full text of abbreviations of toxicity and ecotoxicity reference values listed

EC50 Effective concentration estimated to produce a specific effect in 50% of the test organisms.

LC50 Lethal concentration estimated to cause the death of 50% of the test organisms. LD50 Lethal dosage estimated to cause the death of 50% of the test organisms.

NOAEL No observed adverse effect level.
NOEC No observed effect concentration.

#### Disclaimer

Each user should read this Safety Data Sheet (SDS) and consider the safety precaution recommended. This SDS summarises the present state of our knowledge about the health and safety hazard information and the safe handling and use of the product and is to be used for this product only. The information was obtained from sources which we believe are reliable and is provided in good faith, but do not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and for this reason, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.