DETARMAX DESINFECTANT

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SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: DETARMAX DESINFECTANT

Product code: 102701

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

LAVATORY HYGIENE

Descaling and disinfecting detergent.

TP 2: Disinfectants for sanitary facilities, surfaces, equipment and furniture without direct contact with foodstuffs in medical and hospital environments, paramedical, institutional, tertiary, hotels, sports halls and locker rooms, etc.

TP4: Disinfectants for surfaces, materials, equipment and furniture in direct contact with food or animal feed.

Main use category: Product intended for strictly professional use.

Additional Information: The product should not be used for applications other than those described in this

safety data sheet or in the technical documents for the product.

Use descriptor system (REACH):

SU: 3, 22 - PC: 8.0

1.3. Details of the supplier of the safety data sheet

Registered company name: IPC.

Address: 10 QUAI MALBERT CS 71 821.29218.BREST.France.

Telephone: 02 98 43 45 44. Fax: 02 98 44 22 53.

www.ipc-sa.com Distributeur

1.4. Emergency telephone number: +33 (0)1 45 42 59 59.

Association/Organisation: ORFILA - http://www.centres-antipoison.net.

Other emergency numbers

European emergency call number: 112

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Substance that is corrosive to metals, Category 1 (Met. Corr. 1, H290).

Acute oral toxicity, Category 4 (Acute Tox. 4, H302).

Skin corrosion, Category 1 (Skin Corr. 1, H314).

Serious eye damage, Category 1 (Eye Dam. 1, H318).

Corrosive to the respiratory tract (EUH071).

Hazardous to the aquatic environment - Acute hazard, Category 1 (Aquatic Acute 1, H400).

Hazardous to the aquatic environment - Chronic hazard, Category 3 (Aquatic Chronic 3, H412).

2.2. Label elements

Biocidal detergent mixture (see section 15).

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms:







GHS05

GHS09

GHS07

Signal Word : DANGER

Product identifiers:

EC 231-633-2 PHOSPHORIC ACID

EC 230-525-2 DIDECYLDIMETHYLAMMONIUM CHLORIDE

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Hazard statements:

H290 May be corrosive to metals. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

EUH071 Corrosive to the respiratory tract.

Precautionary statements - Prevention:

P260 Do not breathe dust, mist, vapours.
P273 Avoid release to the environment.

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

Precautionary statements - Response:

P301 + P330 + P331 IF SWALLOWED: Immediately call a physician or a POISON CENTER. Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or

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.

P310 Immediately call a POISON CENTER or a doctor.
P390 Absorb spillage to prevent material damage.

Precautionary statements - Disposal:

P501 Dispose of contents and container to approved waste disposal facility in accordance with national

regulations.

2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC) >= 0.1% published by the European CHemicals Agency (ECHA) under article 59 of REACH: http://echa.europa.eu/fr/candidate-list-table

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances= 0.1% with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

Do not mix with other biocidal or detergent products.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

Identification	Classification (EC) 1272/2008	Note	%
INDEX: 015_011_00_6	GHS07, GHS05	В	10 <= x % < 25
CAS: 7664-38-2	Dgr	[i]	
EC: 231-633-2	Met. Corr. 1, H290		
REACH: 01-2119485924-24-0005	Acute Tox. 4, H302		
	Skin Corr. 1B, H314		
PHOSPHORIC ACID			
INDEX: 612_131_00_6	GHS06, GHS05, GHS09		2.5 <= x % < 7.5
CAS: 7173-51-5	Dgr		
EC: 230-525-2	Acute Tox. 3, H301		
	Skin Corr. 1B, H314		
DIDECYLDIMETHYLAMMONIUM	Aquatic Chronic 2, H411		
CHLORIDE	Aquatic Acute 1, H400		
	M Acute = 10		
INDEX: 1503	GHS05		2.5 <= x % < 7.5
CAS: 68439-50-9	Dgr		
	Eye Dam. 1, H318		
ALCOHOLS, C12-14, ETHOXYLATED (7 - 7.5	Aquatic Chronic 3, H412		
EO)			
INDEX: 603-117-00-0	GHS02, GHS07	[i]	$0 \le x \% < 2.5$
CAS: 67-63-0	Dgr		
EC: 200-661-7	Flam. Liq. 2, H225		
REACH: 01-2119457558-25-XXXX	Eye Irrit. 2, H319		
	STOT SE 3, H336		
PROPAN-2-OL			

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Specific concentration limits:

Identification	Specific concentration limits	ATE
INDEX: 015_011_00_6	Skin Corr. 1B: H314 C>= 25%	oral: ATE = 300 mg/kg BW
CAS: 7664-38-2	Skin Irrit. 2: H315 10% <= C < 25%	
EC: 231-633-2	Eye Dam. 1: H318 C>= 25%	
REACH: 01-2119485924-24-0005	Eye Irrit. 2: H319 10% <= C < 25%	
PHOSPHORIC ACID		
INDEX: 612_131_00_6		dermal: ATE = 3342 mg/kg BW
CAS: 7173-51-5		oral: ATE = 238 mg/kg BW
EC: 230-525-2		
DIDECYLDIMETHYLAMMONIUM		
CHLORIDE		
INDEX: 1503	Eye Dam. 1: H318 C>= 3%	
CAS: 68439-50-9	Eye Irrit. 2: H319 1% <= C < 3%	
ALCOHOLS, C12-14, ETHOXYLATED (7 - 7.5		
EO)		

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Nanoform

The product doesn't contain any nanomaterials.

Information on ingredients:

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

SECTION 4: FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

Keep the packaging with the label and/or the instructions available.

4.1. description of first aid measures

In case of disturbances of consciousness, place the subject in the lateral safety position (lying on his side); call 112.

INTERVENE VERY QUICKLY - ALERT A DOCTOR - NEVER MAKE DRINK OR NEVER INDUCE VOMITING IF THE PATIENT IS UNCONSCIOUS OR HAS CONVULSIONS.

In the event of exposure by inhalation:

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

Do not proceed with mouth-to-mouth or mouth-to-nose resuscitation. Use the appropriate equipment.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice immediately if symptoms occur and/or large quantitieshave been inhaled.

In the event of splashes or contact with eyes:

If necessary, remove the lenses if possible. Wash thoroughly with soft, clean water for 15 minutes holding the eyelids open. If there is any redness or visual impairment, consult an ophthalmologist.

In the event of splashes or contact with skin:

Remove any soiled or splashed clothing immediately.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated aera is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

Remove contaminated clothing and wash before reuse. Rinse skin with plenty of water for 15 minutes. In severe cases or if you feel unwell, consult a doctor.

In the event of swallowing:

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water, administer activated medical charcoal and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

After contact with the skin: Corrosive to the skin. Causes severe burns. Risk of ulceration of the skin.

After contact with the eyes: Corrosive to eyes. Risk of serious permanent eye damage if the product is not

removed quickly. Vapor may cause eye irritation. Tears.

If swallowed: Severe burns of the mouth and throat. Ingestion of a large amount can cause the

following effects: the danger of perforation of the esophagus and stomach.

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In case of inhalation: By spraying, generation of particles, dust, vapors, mists, which can irritate the

respiratory tract.

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

Endoscopy or gastric lavage may be considered but may cause serious damage to the stomach or esophagus.

Information for the doctor:

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to stay under medical supervision for 48 hours.

SECTION 5 : FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

Suitable methods of extinction

In the event of a fire, use:

- sprayed water or water mist
- multipurpose ABC powder
- carbon dioxide (CO2)
- foam
- dry chemical agents

Unsuitable methods of extinction

Do not use pressurized water jet may disperse and spread the fire.

5.2. Special hazards arising from the substance or mixture

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- nitrogen oxide (NO)
- phosphine (PH3)
- hydrogen chloride (HCl)
- hydrogen (H2)
- phosphorus oxides (PxOy)

Because of its corrosive effect on many metals, action that is accompanied by the release of hydrogen may be a secondary source of fire and explosion.

5.3. Advice for firefighters

Due to the toxicity of the gas emitted on thermal decomposition of the products, fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

Fire residues and contaminated extinguishing water must be disposed of according to local regulations in force.

Use self-contained breathing apparatus. Complete anti-acid protection equipment. Anti-acid boots. Anti-acid protective gloves. Please refer to section 8.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Consult the safety measures listed under headings 7 and 8.

For non first aid worker

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

Keep bystanders out of danger

No action shall be taken involving any personal risk or without suitable training. Evacuate the area.

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If quantities are large, evacuate personnel using only trained operators equipped with protective equipment.

For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

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Prevent any material from entering drains or waterways.

If the product contaminates waterways, rivers or drains, alert the relevant authorities in accordance with statutory procedures

Use drums to dispose of collected waste in compliance with current regulations (see section 13).

All spills should be directed to a wastewater treatment plant

All contaminated materials should be considered as waste for disposal according to local regulations (See section 8).

6.3. Methods and material for containment and cleaning up

Neutralise with an alkaline decontaminant, such as an aqueous solution of sodium carbonate or similar.

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

Possibility of neutralizing effects: the neutralization is possible with a solution of sodium carbonate (CAS No. 497-19-8) of 1 to 10% (w/w). The use of very hot water (> 50°C) can speed up the cleaning of the product.

6.4. Reference to other sections

Section 7: Handling and Storage

Section 8: exposure control and personal protection

Section 10: Incompatible materials.

Section 13: disposal considerations.

SECTION 7: HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

Remove contaminated clothing and protective equipment before entering eating areas.

Emergency showers and eye wash stations will be required in facilities where the mixture is handled constantly.

When spraying, or when forming mist, vapors, dusts, wear respiratory protection, see section 8.

NEVER pour water into the product but ALWAYS the product into the water.

Dilutions or neutralizations are highly exothermic.

Fire prevention:

Handle in well-ventilated areas.

Prevent access by unauthorised personnel.

Recommended equipment and procedures:

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not inhale vapours.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Packages which have been opened must be reclosed carefully and stored in an upright position.

When personnel have to operate in the cabin, whether spraying or not, the ventilation may be insufficient to control solvent particles and vapors in all cases.

It is therefore advisable that personnel wear masks with compressed air supply during spraying operations, until the concentration of particles and solvent vapors has fallen below the exposure limits (face mask). gas, filter type A).

The packages that have been opened must be closed carefully and preferably kept upright.

Prohibited equipment and procedures:

No smoking, eating or drinking in areas where the mixture is used.

Never open the packages under pressure.

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7.2. Conditions for safe storage, including any incompatibilities

To keep the quality of the product, not store in the heat and nor in the sun

Refer to section 10.5 for incompatibilities.

Storage

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Keep the container tightly closed in a dry, well-ventilated place.

Keep away from food and drink, including those for animals.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Recommended storage temperature: < 45°C

Packaging

Always keep in packaging made of an identical material to the original.

Recommended types of packaging:

- Vats
- Bottles
- Drums

Suitable packaging materials:

- Plastic
- Compatible grades of HDPE

Unsuitable packaging materials:

- Wood
- Cardboard
- Metal
- Paper bag
- Textile

Store in a corrosion-resistant packaging.

7.3. Specific end use(s)

The mixture is a biocidal product. It must not be used for applications other than those described in this safety data sheet and in the technical documents concerning the product.

Product intended for strictly professional use.

Always read the label or the instructions before use, and follow all the instructions given there.

Respect the conditions of use of the product (concentration, contact time, ...).

Do not mix with other detergents or biocidal products.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits :

- European Union :

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
7664-38-2	1	-	2	-	-
PHOSPHORIC ACID%					

- Belgium :

Beigiain .					
CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7664-38-2	1 mg/m3	2 mg/m3			
PHOSPHORIC ACID%					
67-63-0	200 ppm	400 ppm			
PROPAN-2-OL	500 mg/m3	1000 mg/m3			

- France:

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No:
7664-38-2	0,2	1	0,5	2	VLRI	
PHOSPHORIC ACID%						
67-63-0			400	980		84
PROPAN-2-OL						

- Ireland :

CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7664-38-2	1 mg/m3	2 mg/m3			
PHOSPHORIC ACID%					

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67-63-0	200 ppm	400 ppm			
PROPAN-2-OL					
- UK :					
CAS	TWA:	STEL:	Ceiling:	Definition:	Criteria:
7664-38-2	1 mg/m3	2 mg/m3			
PHOSPHORIC ACID%					
67-63-0	400 ppm	500 ppm			
PROPAN-2-OL	999 mg/m3	1250 mg/m3			

Derived no effect level (DNEL) or derived minimum effect level (DMEL):

PROPAN-2-OL (CAS: 67-63-0)

Final use: Workers.

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 888 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects. DNEL: 500 mg of substance/m3

Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long terms

Potential health effects: Long term systemic effects.

DNEL: 26 mg/kg body weight/day

Exposure method: Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 319 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 89 mg of substance/m3

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Final use:Exposure method:
Workers.
Dermal contact.

Potential health effects: Long term systemic effects.

DNEL: 1.55 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.
DNEL: 5.39 mg of substance/m3

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

Final use: Workers.

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 1 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL: 2 mg of substance/m3

Exposure method: Inhalation.

Potential health effects: Long term systemic effects. DNEL: 10.7 mg of substance/m3

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Final use: Consumers.

Exposure method: Ingestion.

Potential health effects: Long term systemic effects.

DNEL: 4.57 mg/kg body weight/day

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 0.36 mg of substance/m3

Predicted no effect concentration (PNEC):

PROPAN-2-OL (CAS: 67-63-0)

Environmental compartment: Soil.
PNEC: 28 mg/kg

Environmental compartment: Fresh water. PNEC: 140.9 mg/l

Environmental compartment: Sea water. PNEC: 140.9 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 552 mg/kg

Environmental compartment: Marine sediment. PNEC: 552 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 2251 mg/l

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Environmental compartment: Soil.
PNEC: 1.4 mg/kg

Environmental compartment: Fresh water. PNEC: 0.0011 mg/l

Environmental compartment: Sea water.
PNEC: 0.00011 mg/l

Environmental compartment: Intermittent waste water.

PNEC: 0.00021 mg/l

Environmental compartment: Fresh water sediment.

PNEC: 61.86 mg/kg

Environmental compartment: Marine sediment. PNEC: 6.186 mg/kg

Environmental compartment: Waste water treatment plant.

PNEC: 0.14 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE):











Use personal protective equipment that is clean and has been properly maintained.

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Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

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- Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

- Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question: other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended:

- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))

Recommended properties:

- Impervious gloves in accordance with standard EN ISO 374-2 (Type B)
- Nitrile NBR (breakthrough time > 480 min; glove thickness >= 0.11 mm)

- Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing:

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.

In the event of spraying, wear protective clothing against chemical risks and against sprayed liquid (type 4) in accordance with EN14605/A1 to prevent skin contact.

Suitable type of protective boots:

In the event of minor spatter, wear protective boots or half-boots against chemical risks in accordance with standard EN13832-2.

In the event of prolonged contact, wear boots or half-boots with liquid-chemical-resistant and waterproof soles and uppers in accordance with standard EN13832-3.

In the event of spraying, wear waterproof boots or half-boots made of nitrile rubber in accordance with standard EN13832-3.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

- Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Category:

- FFP2

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387:

- A2 (Brown)
- E2 (Yellow)
- B2 (Grey)

Particle filter according to standard EN143:

- P3 (White)

Use respiratory protection at high exposure levels for example during the crossing of the limit value at the workplace

If spray use, risk of excessive fog production, dust or vapors, it is advisable to use approved respiratory protective equipment.

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In the event of fire, possible release of gas, vapor or dust, which are very irritating or corrosive to the respiratory system. Exposure to decomposition products may pose health risks. Use an appropriate cartridge/filter respirator that complies with current standards, as mentioned.

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- Thermal risks

Violent and exothermic reaction when adding water to a concentrated acid.

Dilutions or neutralizations are highly exothermic.

Exposure controls linked to environmental protection

Do not dispose of the biocidal product in drains (sinks, toilets, etc.), gutters, waterways, in the open field or in any other outdoor environment. The discharge of large amounts into drains, pipelines or the aquatic environment may lead to a sharp decrease in the pH value, which is harmful to aquatic organisms.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state: Fluid liquid.

Colour

Color: Clear colorless to light yellow

Odour

Odour threshold: Not stated.

Melting point

Melting point/melting range: Not relevant.

Freezing point

Freezing point / Freezing range : Not stated. **Boiling point or initial boiling point and boiling range**

Boiling point/boiling range: Not relevant.

Flammability

Flammability (solid, gas): Not stated.

Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) Not stated.

:

Explosive properties, upper explosivity limit (%) Not stated.

Flash point

Flash point interval: Not relevant.

Auto-ignition temperature

Self-ignition temperature : Not relevant.

Decomposition temperature

Decomposition point/decomposition range: Not relevant.

pН

pH (aqueous solution) : (1%) = 2.00 +/- 1.00 pH : Not stated.

Strongly acidic.

Kinematic viscosity

Viscosity: Not stated.

Solubility

Water solubility: Soluble. Fat solubility: Not stated.

Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water: Not stated.

Vapour pressure

Vapour pressure (50°C) : Not relevant.

Density and/or relative density

Density : $= 1.12 \text{ g/cm} 3 + /- 0.02 (20^{\circ}\text{C})$

Method for determining the density:

OCDE Guideline 109 (Density of liquids and solids).

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Relative vapour density

Vapour density: Not stated.

Particle characteristics

The mixture does not contain nanoforms.

9.2. Other information

No additional information available.

9.2.1. Information with regard to physical hazard classes

No additional information available.

9.2.2. Other safety characteristics

No additional information available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Mixture which by chemical action can corrode and even destroy metals.

Due to its cationic nature, the product is chemically incompatible with anionic compounds.

10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

Contact with certain metals can form hydrogen gas, which in turn can form an explosive gas mixture with air.

10.4. Conditions to avoid

Avoid:

- frost
- heat
- exposure to light

10.5. Incompatible materials

- bases
- -oxydants
- chlorites and hypochlorites
- metals
- alkalis

Do not mix with other desinfectants.

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)
- nitrogen oxide (NO)
- hydrogen (H2)
- phosphine (PH3)
- hydrogen chloride (HCl)
- phosphorus oxides (PxOy)

SECTION 11: TOXICOLOGICAL INFORMATION

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

11.1.1. Substances

a) Acute toxicity:

ALCOHOLS, C12-14, ETHOXYLATED (7 - 7.5 EO) (CAS: 68439-50-9)

Oral route : LD50 >= 2000 mg/kg body weight

Species : Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route : LD50 >= 2000 mg/kg body weight

Species: Rabbit

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OECD Guideline 402 (Acute Dermal Toxicity)

Inhalation route (Vapours): LC50 >= 1.6 mg/l

Species: Rat

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Oral route: LD50 = 238 mg/kg body weight

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

LD50 = 3342 mg/kg body weightDermal route:

Species: Rabbit

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

LD50 = 300 mg/kg body weight Oral route:

Species: Rat

OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

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b) Skin corrosion/skin irritation:

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Corrosivity: Causes severe skin burns.

Species: Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Effect observed: Overall irritation score

Species: Rabbit

c) Serious damage to eyes/eye irritation:

No data available.

d) Respiratory or skin sensitisation:

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Buehler Test: Non-sensitiser.

> Species: Guinea pig Other guideline

e) Germ cell mutagenicity:

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Mutagenesis (in vivo): Negative.

Species: Rat

OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro): Negative.

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

No mutagenic effect.

f) Carcinogenicity:

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Carcinogenicity Test: Negative.

No carcinogenic effect.

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

Carcinogenicity Test: Negative.

No carcinogenic effect.

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g) Reproductive toxicant:

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

No toxic effect for reproduction

h) Specific target organ systemic toxicity - single exposure :

Not classified

i) Specific target organ systemic toxicity - repeated exposure :

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

C = 250 mg/kg body weight/dayOral route:

Species: Rat

Duration of exposure : 90 days

OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the

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Reproduction / Developmental Toxicity Screening Test)

j) Aspiration hazard:

Not classified

11.1.2. Mixture

11.1.2.1 Information on hazard classes

a) Acute toxicity:

Harmful by ingestion (H302).

Oral route: Harmful if swallowed.

Dermal route: No data available.

Inhalation route (Dusts/mist): No data available.

b) Skin corrosion/skin irritation:

May cause irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis, following exposure for up to three minutes.

Corrosive reactions are typified by ulcers, bleeding, bloody scabs, and, by the end of observation at 14 days, by discolouration due to blanching of the skin, complete areas of alopecia, and scars.

Causes burns to the skin (H314).

- Classification based on extreme pH and an acid or alkaline reserve

Corrosive classification is based on an extreme pH value.

c) Serious damage to eyes/eye irritation:

Causes serious eye damage. (H318).

Corrosive classification is based on an extreme pH value.

d) Respiratory or skin sensitisation:

Not classified

e) Germ cell mutagenicity:

Not classified

f) Carcinogenicity:

Not classified

g) Reproductive toxicant:

Not classified

h) Specific target organ systemic toxicity - single exposure :

Not classified

i) Specific target organ systemic toxicity - repeated exposure :

Not classified

j) Aspiration hazard:

Not classified

11.1.2.2 Other information

Mixture versus substance information

May be corrosive to metals (H290).

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 $Monograph(s)\ from\ the\ IARC\ (International\ Agency\ for\ Research\ on\ Cancer):$

CAS 67-63-0: IARC Group 3: The agent is not classifiable as to its carcinogenicity to humans.

11.2. Information on other hazards

Endocrine disrupting properties

The mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57, point f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more.

Other hazards

May be corrosive to the respiratory tract

SECTION 12: ECOLOGICAL INFORMATION

Very toxic to aquatic life with long lasting effects.

The product must not be allowed to run into drains or waterways.

12.1. Toxicity

12.1.1. Substances

ALCOHOLS, C12-14, ETHOXYLATED (7 - 7.5 EO) (CAS: 68439-50-9) Crustacean toxicity: NOEC >= 0.77 mg/l

Species: Daphnia magna

PHOSPHORIC ACID ...% (CAS: 7664-38-2)

Crustacean toxicity: EC50 >= 100 mg/l

Species : Daphnia magna Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

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Algae toxicity: ECr50 > 100 mg/l

Duration of exposure: 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Fish toxicity: LC50 = 0.19 mg/l

Factor M = 1

Species : Pimephales promelas Duration of exposure : 96 h

NOEC = 0.032 mg/l Species : Danio rerio

Duration of exposure : 35 days

OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)

Crustacean toxicity: EC50 = 0.062 mg/l

Species : Daphnia magna Duration of exposure : 48 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

NOEC = 0.014 mg/l Species : Daphnia magna Duration of exposure : 21 days

OECD Guideline 211 (Daphnia magna Reproduction Test)

Algae toxicity: ECr50 = 0.026 mg/l

 $Species: Pseudokirchnerella\ subcapitata$

Duration of exposure : 96 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

12.1.2. Mixtures

Very toxic to aquatic life with long lasting effects (H410).

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12.2. Persistence and degradability

12.2.1. Substances

ALCOHOLS, C12-14, ETHOXYLATED (7 - 7.5 EO) (CAS: 68439-50-9) Biodegradability: Rapidly degradable.

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Biodegradability: Rapidly degradable.

12.2.2. Mixtures

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

12.3. Bioaccumulative potential

12.3.1. Substances

ALCOHOLS, C12-14, ETHOXYLATED (7 - 7.5 EO) (CAS: 68439-50-9)

Bioaccumulation : BCF = 12.7

DIDECYLDIMETHYLAMMONIUM CHLORIDE (CAS: 7173-51-5)

Bioaccumulation: BCF = 81

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

The blend does not contain any ingredients considered persistent, bio-accumulating and toxic (PBT), or very persistent and very bio-accumulating (vPvB) at levels of 0.1% or greater, in accordance with appendix XIII of the REACH regulation (EC) $n^{\circ}1907/2006$.

12.6. Endocrine disrupting properties

The mixture does not contain ingredients considered to have endocrine disrupting properties according to Article 57, point f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more.

12.7. Other adverse effects

Rejecting large quantities into drains or waters may lead to a significant decrease in pH value. A low pH value is harmful to aquatic organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

13.1. Waste treatment methods

Do not dispose of the product in drains (sinks, toilets, etc.), gutters, waterways, in the open field or in any other outdoor environment.

Waste:

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

All contaminated material must be considered as waste with a view to its elimination according to the regulations in force.

Soiled packaging:

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

$Codes\ of\ wastes\ (Decision\ 2014/955/EC,\ Directive\ 2008/98/EEC\ on\ hazardous\ waste):$

15 02 02 * absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances

15 01 10 * packaging containing residues of or contaminated by dangerous substances

06 01 04 * phosphoric and phosphorous acid

07 06 04 * other organic solvents, washing liquids and mother liquors

Properties of waste which render it hazardous (Directive 2008/98/EC, Annex III):

HP 14 "Ecotoxic":

The waste contains one or more substances classified in category 1, 2 or 3 for chronic aquatic toxicity and bearing the hazard statement codes H410, H411 or H412 pursuant to Regulation (EC) No 1272/2008.

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SECTION 14: TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2024 [65]).

14.1. UN number or ID number

3265

14.2. UN proper shipping name

UN3265=CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(didecyldimethylammonium chloride, phosphoric acid)

14.3. Transport hazard class(es)

- Classification:



8

14.4. Packing group

II

14.5. Environmental hazards

- Environmentally hazardous material:



14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C3	II	8	80	1 L	274	E2	2	E

IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation
	8	-	II	1 L	F-A. S-B	274	E2	Category B SW2	SGG1 SG36 SG49

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	II	851	1 L	855	30 L	A3 A803	E2
	8	-	II	Y840	0.5 L	-	-	A3 A803	E2

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

Marine pollutant (IMDG 3.1.2.9):(didecyldimethylammonium chloride)

14.7. Maritime transport in bulk according to IMO instruments

See the relevant regulations in force if applicable.

SECTION 15: REGULATORY INFORMATION

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

Classification and labelling information included in section ${\bf 2}$:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.
- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/2564. (ATP 22)

Particular provisions:

No additional information.

Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH): https://echa.europa.eu/substances-restricted-under-reach.

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Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006: https://echa.europa.eu/fr/authorisation-list.

Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol):

The mixture does not contain any substance posing a risk to the ozone layer.

Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is subject to the Prior Informed Consent (PIC) procedure.

The mixture contains a substance subject to the export notification procedure requirement.

7173-51-5 DIDECYLDIMETHYLAMMONIUM CHLORIDE

Explosives precursors:

The mixture does not contain any substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors.

Labelling for detergents (EC Regulation No. 648/2004,907/2006):

- 15 % or over but less than 30 %: phosphates
- 5 % or over but less than 15 %: cationic surfactants
- less than 5 %: amphoteric surfactants
- less than 5 %: non-ionic surfactants
- disinfectants

Labelling for biocidal products (Regulation (UE) n° 528/2012):

Name	CAS	%	Product-type
DIDECYLDIMETHYLAMMONIUM	7173-51-5	50.00 g/kg	02
CHLORIDE			04

Product-type 2: Disinfectants and algaecides not intended for direct application to humans or animals.

Product-type 4: Food and feed area.

Type of preparation: SL - soluble concentrate

Percentage of technical active substance: 5.506%

15.2. Chemical safety assessment

No further information available.

SECTION 16: OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

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

Classification in accordance with Regulation (EC) No 1272/2008

Met. Corr. 1, H290

Acute Tox. 4, H302

Skin Corr. 1, H314

Eye Dam. 1, H318

EUH071

Aquatic Acute 1, H400

Aquatic Chronic 3, H412

Classification procedure

Minimum classification.

Minimum classification.

Minimum classification.

Calculation method.

Calculation method.

Calculation method.

Wording of the phrases mentioned in section 3:

H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.

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H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

LD50: The dose of a test substance resulting in 50% lethality in a given time period.

LC50: The concentration of a test substance resulting in 50% lethality in a given period.

EC50: The effective concentration of substance that causes 50% of the maximum response.

ECr50: The effective concentration of substance that causes 50% reduction in growth rate.

LQ: Limited Quantity
EQ: Excepted Quantity
EmS: Emergency Schedule
E: Packing Instruction

NOEC: The concentration with no observed effect.

REACH: Registration, Evaluation, Authorization and Restriction of Chemical Substances.

ATE: Acute Toxicity Estimate

BW: Body Weight

DNEL: Derived No-Effect Level

PNEC: Predicted No-Effect Concentration

STEL: Short-term exposure limit

TWA : Moyenne pondérée dans le temps TMP : French Occupational Illness table TLV : Threshold Limit Value (exposure)

AEV: Average Exposure Value. VLRC: Indicative constraint value

PC 8 - Biocidal products (e.g. Disinfectants, pest control)

SU 22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU 3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

ADR: European agreement concerning the international carriage of dangerous goods by Road.

GHS05: Corrosion

GHS07 : Exclamation mark GHS09 : Environment

IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
ICAO: International Civil Aviation Organisation

PBT: Persistent, bioaccumulable and toxic.

PIC: Prior Informed Consent.
POP: Persistent Organic Pollutant.

RID: Regulations concerning the International carriage of Dangerous goods by rail.

SVHC : Substances of very high concern. vPvB : Very persistent, very bioaccumulable.