

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: BEPRO CLEANER MA

Product code: 19500201.

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

Alkaline detergent for automated processing of surgical and dental instruments.

1.3. Details of the supplier of the safety data sheet

Registered company name: FRANKLAB.

Address: 3 avenue des Frênes. 78180. MONTIGNY LE BRETONNEUX. FRANCE.

Telephone: +33 1 39 44 93 40. Fax: +33 1 39 44 93 41.

contact@sterifrance.com www.sterifrance.com

Downstream user / importer / distributor : W&H Sterilization Srl. Via Bolgara 2. 24060 Brusaporto (GB) - Italy

Phone: +39 035 66 63 000 E-mail: office.sterilization@wh.com Internet: www.wh.com Email address of the entity responsible for the safety data sheet: contact@sterifrance.com

1.4. Emergency telephone number: +33 1 40 44 30 00.

Association/Organisation: INRS Paris.

Complete list of poison center available at : https://www.eapcct.org/index.php?page=links

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

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

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

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

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

2.2. Label elements

Detergent mixture (see section 15).

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

Hazard pictograms:



GHS05

Signal Word : DANGER

Product identifiers:

EC 215-181-3 POTASSIUM HYDROXIDE

Additional labeling: Hazard statements:

H314 Causes severe skin burns and eye damage.

Precautionary statements - Prevention:

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection/ ...

 $Precautionary\ statements\ -\ Response:$

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

hower].

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/doctor/...



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 57 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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Composition:

Identification	Classification (EC) 1272/2008	Note	%
CAS: 1310-58-3	GHS07, GHS05	[1]	$2.5 \le x \% < 10$
EC: 215-181-3	Dgr		
REACH: 01-2119487136-33-xxxx	Met. Corr. 1, H290		
	Acute Tox. 4, H302		
POTASSIUM HYDROXIDE	Skin Corr. 1A, H314		
	Eye Dam. 1, H318		
CAS: 60-00-4	GHS07, GHS08		2.5 <= x % < 10
EC: 200-449-4	Wng		
	Eye Irrit. 2, H319		
EDETIC ACID	Acute Tox. 4, H332		
	STOT RE 2, H373		
CAS: 7722-88-5	GHS07, GHS05	[1]	$2.5 \le x \% < 10$
EC: 231-767-1	Dgr		
REACH: 01-2119489794-17-0001	Acute Tox. 4, H302		
	Eye Dam. 1, H318		
TETRASODIUM PYROPHOSPHATE			
CAS: 64-17-5	GHS07, GHS02	[1]	2.5 <= x % < 10
EC: 200-578-6	Dgr		
REACH: 01-2119457610-43-xxxx	Flam. Liq. 2, H225		
	Eye Irrit. 2, H319		
ETHYL ALCOHOL			
CAS: 527-07-1			$0 \le x \% < 2.5$
	EUH:044		
GLUCONATE DE SODIUM			
CAS: 67-63-0	GHS07, GHS02	[1]	$0 \le x \% < 2.5$
EC: 200-661-7	Dgr		
	Flam. Liq. 2, H225		
PROPAN-2-OL	Eye Irrit. 2, H319		
	STOT SE 3, H336		
CAS: 78-93-3	GHS07	[1]	$0 \le x \% < 2.5$
EC: 201-159-0	Wng		
	Eye Irrit. 2, H319		
2-BUTANONE	STOT SE 3, H336		

Specific concentration limits:

Specific concentration limits:		
Identification	Specific concentration limits	ATE
CAS: 1310-58-3	Skin Corr. 1A: H314 C>= 5%	oral: ATE = 333 mg/kg BW
EC: 215-181-3	Skin Corr. 1B: H314 2% <= C < 5%	
REACH: 01-2119487136-33-xxxx	Skin Irrit. 2: H315 0.5% <= C < 2%	
	Eye Dam. 1: H318 C>= 2%	
POTASSIUM HYDROXIDE	Eye Irrit. 2: H319 0.5% <= C < 2%	
CAS: 60-00-4		oral: ATE = 4500 mg/kg BW
EC: 200-449-4		
EDETIC ACID		
CAS: 7722-88-5		inhalation: ATE = 5 mg/l
EC: 231-767-1		(dust/mist)
REACH: 01-2119489794-17-0001		oral: ATE = 1624 mg/kg BW
TETRASODIUM PYROPHOSPHATE		



CAS: 64-17-5 EC: 200-578-6	oral: ATE = 10470 mg/kg BW
REACH: 01-2119457610-43-xxxx	
ETHYL ALCOHOL	
CAS: 67-63-0	dermal: ATE = 13900 mg/kg BW
EC: 200-661-7	oral: ATE = 5840 mg/kg BW
PROPAN-2-OL	
CAS: 78-93-3	oral: ATE = 4000 mg/kg BW
EC: 201-159-0	
2-BUTANONE	

Information on ingredients:

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

[1] 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.

4.1. description of first aid measures

In the event of splashes or contact with eyes:

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

Regardless of the initial state, refer the patient to an ophthalmologist and show him the label.

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.

In the event of swallowing:

Do not give the patient anything orally.

Seek medical attention immediately, showing the label.

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

No data available.

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

No data available.

SECTION 5: FIREFIGHTING MEASURES

Non-flammable.

5.1. Extinguishing media

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)

5.3. Advice for firefighters

No data available.

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 any contact with the skin and eyes.

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.

Prevent any material from entering drains or waterways.

6.3. Methods and material for containment and cleaning up

Neutralise with an acidic decontaminant.

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.

6.4. Reference to other sections

No data available.

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.

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

Fire prevention:

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.

Prohibited equipment and procedures:

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

7.2. Conditions for safe storage, including any incompatibilities

No data available.

Packaging

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

7.3. Specific end use(s)

No data available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE):

CAS	VME-mg/m3:	VME-ppm:	VLE-mg/m3:	VLE-ppm:	Notes:
78-93-3	600	200	900	300	-

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

CAS	VME-ppm:	VME-mg/m3:	VLE-ppm:	VLE-mg/m3:	Notes:	TMP No:
1310-58-3	-	-	-	2	-	-
7722-88-5	-	5	-	-	-	-
64-17-5	1000	1900	5000	9500	-	84
67-63-0	-	-	400	980	-	84
78-93-3	200	600	300	900	*	84

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

CAS WEL (WOIK	TWA:	STEL:	Ceiling:	Definition :	Criteria:
1310-58-3		2 mg/m³			
7722-88-5	5 mg/m ³				
64-17-5	1000 ppm				
	1920 mg/m ³				
67-63-0	400 ppm	500 ppm			
	999 mg/m ³	1250 mg/m ³			
78-93-3	200 ppm	300 ppm		Sk. BMGV	
	600 mg/m^3	899 mg/m ³			



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

ETHYL ALCOHOL (CAS: 64-17-5)

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: Short term local effects.

DNEL: 1900 mg of substance/m3

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 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

Exposure method: Inhalation.

Potential health effects: Short term local effects.

DNEL: 950 mg of substance/m3

TETRASODIUM PYROPHOSPHATE (CAS: 7722-88-5)

Final use: Workers. Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 44.08 mg of substance/m3

Final use: Consumers.

Exposure method: Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 10.87 mg of substance/m3

EDETIC ACID (CAS: 60-00-4)

Final use:Exposure method:
Workers.
Inhalation.

Potential health effects: Long term systemic effects.

DNEL: 1.5 mg of substance/m3

POTASSIUM HYDROXIDE (CAS: 1310-58-3)

Final use: Workers.

Exposure method: Inhalation.

Potential health effects: Long term local effects.

DNEL: 1 mg of substance/m3

Final use: Consumers. Exposure method: Inhalation.

Potential health effects: Long term local effects.

(WSH)

DNEL: 1 mg of substance/m3

Predicted no effect concentration (PNEC):

2-BUTANONE (CAS: 78-93-3)

Environmental compartment: Soil.
PNEC: 28 mg/kg

Environmental compartment: Fresh water.

PNEC: 55.8

Environmental compartment: Sea water. PNEC: 55.8

Environmental compartment: Fresh water sediment.

PNEC: 552

Environmental compartment: Marine sediment.

PNEC: 552

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

ETHYL ALCOHOL (CAS: 64-17-5)

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: Intermittent waste water.

PNEC: 140.9 mg/l

Environmental compartment: Waste water treatment plant.

PNEC: 2251 mg/l

EDETIC ACID (CAS: 60-00-4)

Environmental compartment: Soil.
PNEC: 0.72 mg/kg

Environmental compartment: Fresh water. PNEC: 2.2 mg/l

Environmental compartment: Sea water. PNEC: 0.22 mg/l



Environmental compartment: Intermittent waste water.

PNEC: 1.2 mg/l

8.2. Exposure controls

Personal protection measures, such as personal protective equipment

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

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.

- 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 EN166.

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

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

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:

- Natural latex
- PVC (polyvinyl chloride)

- 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.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state

Physical state: Fluid liquid.

Colour

Unspecified

Odour

Odour threshold: Not stated.

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):

pH:

Not stated.

Not stated.

Strongly basic.

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): Below 110 kPa (1.10 bar).

Density and/or relative density

Density: >1

Relative vapour density

Vapour density: Not stated.

9.2. Other information

No data available.

9.2.1. Information with regard to physical hazard classes

No data available.

9.2.2. Other safety characteristics

No data available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Avoid:

- frost

10.5. Incompatible materials

No data available.

10.6. Hazardous decomposition products

The thermal decomposition may release/form:

- carbon monoxide (CO)
- carbon dioxide (CO2)

SECTION 11: TOXICOLOGICAL INFORMATION

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

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.

11.1.1. Substances

Acute toxicity:

GLUCONATE DE SODIUM (CAS: 527-07-1)

(WSH)

Species: Others

2-BUTANONE (CAS: 78-93-3)

Oral route: LD50 = 4000 mg/kg bodyweight/day

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

Oral route : LD50 = 5840 mg/kg bodyweight/day

Species: Rat

Dermal route: LD50 = 13900 mg/kg bodyweight/day

Species: Rat

Inhalation route (Dusts/mist): LC50 > 25 mg/m3

Species: Rat

ETHYL ALCOHOL (CAS: 64-17-5)

Oral route: LD50 = 10470 mg/kg bodyweight/day

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

Dermal route: LD50 > 2000 mg/kg bodyweight/day

Species: Rabbit

Inhalation route (Dusts/mist): LC50 > 51 mg/l

Species : Rat

OECD Guideline 403 (Acute Inhalation Toxicity)

TETRASODIUM PYROPHOSPHATE (CAS: 7722-88-5)

Oral route: LD50 = 1624 mg/kg bodyweight/day

Species: Rat

OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

Dermal route: LD50 > 2000 mg/kg bodyweight/day

Species: Rabbit

Inhalation route (Dusts/mist): LC50 = 5 mg/m3

EDETIC ACID (CAS: 60-00-4)

Oral route: LD50 = 4500 mg/kg bodyweight/day

Species: Rat

OECD Guideline 401 (Acute Oral Toxicity)

POTASSIUM HYDROXIDE (CAS: 1310-58-3)

Oral route : LD50 = 333 mg/kg bodyweight/day

OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)

Germ cell mutagenicity:

EDETIC ACID (CAS: 60-00-4)

Mutagenesis (in vivo): Negative.

OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Species: Others

OECD Guideline 471 (Bacterial Reverse Mutation Assay)

Ames test (in vitro): Negative.

Carcinogenicity:

EDETIC ACID (CAS: 60-00-4)

Carcinogenicity Test: Negative.

No carcinogenic effect.



Species: Rat

Specific target organ systemic toxicity - repeated exposure :

EDETIC ACID (CAS: 60-00-4)

Oral route: C = 500 mg/kg bodyweight/day

Duration of exposure : 90 days

11.1.2. Mixture

Skin corrosion/skin irritation:

Effect observed: Erythema score

Average score = 0

Duration of exposure: 72 h

Species: Rabbit

Corrosive classification is based on an extreme pH value.

11.2. Information on other hazards

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

12.1.1. Substances

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

Fish toxicity: LC50 > 9640 mg/l

Species: Pimephales promelas Duration of exposure: 96 h

Crustacean toxicity: EC50 > 10000 mg/l

Species : Daphnia magna Duration of exposure : 24 h

GLUCONATE DE SODIUM (CAS: 527-07-1)

Fish toxicity: LC50 > 100 mg/l

Species : Oryzias latipes Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: Species: Daphnia magna

ETHYL ALCOHOL (CAS: 64-17-5)

Fish toxicity: LC50 = 9.640 mg/l

Species : Pimephales promelas Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: EC50 = 9.714 mg/l

Species : Daphnia magna Duration of exposure : 24 h

OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)

Algae toxicity: ECr50 > 100 mg/l

Species : Scenedesmus subspicatus Duration of exposure : 72 h

Species: Chlamydomonas sp.

Aquatic plant toxicity: Species: Others

Duration of exposure: 21 days

TETRASODIUM PYROPHOSPHATE (CAS: 7722-88-5)

Fish toxicity: LC50 = 100 mg/l



Species : Trutta iridea Duration of exposure : 96 h

OECD Guideline 203 (Fish, Acute Toxicity Test)

Crustacean toxicity: EC50 > 100 mg/l

Species : Daphnia magna Duration of exposure : 48 h

EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)

Algae toxicity: ECr50 = 100 mg/l

Species: Desmodesmus subspicatus

Duration of exposure : 72 h

OECD Guideline 201 (Alga, Growth Inhibition Test)

POTASSIUM HYDROXIDE (CAS: 1310-58-3)

Fish toxicity: LC50 = 80 mg/l

Species : Gambusia affinis Duration of exposure : 96 h

12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

12.2. Persistence and degradability

12.2.1. Substances

2-BUTANONE (CAS: 78-93-3)

Biodegradability: Rapidly degradable.

GLUCONATE DE SODIUM (CAS: 527-07-1)

Biodegradability: Rapidly degradable.

ETHYL ALCOHOL (CAS: 64-17-5)

Biodegradability: Rapidly degradable.

TETRASODIUM PYROPHOSPHATE (CAS: 7722-88-5)

Biodegradability: no degradability data is available, the substance is considered as not degrading

quickly.

POTASSIUM HYDROXIDE (CAS: 1310-58-3)

Biodegradability: Non-rapidly degradable.

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

Chemical oxygen demand : DCO = 2294 g/kg

Five-day biochemical oxygen demand : DBO5 = 1171 g/kg

Biodegradability: Rapidly degradable.

DBO5/DCO = 0.51

12.3. Bioaccumulative potential

12.3.1. Substances

2-BUTANONE (CAS: 78-93-3)

Octanol/water partition coefficient : log Koe = 0.33

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

Octanol/water partition coefficient : log Koe = 0.05

ETHYL ALCOHOL (CAS: 64-17-5)

Octanol/water partition coefficient : log Koe = -0.35

12.4. Mobility in soil

No data available.



12.5. Results of PBT and vPvB assessment

No data available.

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No data available.

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 pour into drains or waterways.

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.

Soiled packaging:

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

Give to a certified disposal contractor.

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 2020 [40-20] - ICAO/IATA 2023 [64]).

14.1. UN number or ID number

1814

14.2. UN proper shipping name

UN1814=POTASSIUM HYDROXIDE SOLUTION

14.3. Transport hazard class(es)

- Classification:



8

14.4. Packing group

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14.5. Environmental hazards

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14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	8	C5	III	8	80	5 L	-	E1	3	Е
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage	Segregation	
								Handling		
	8	-	III	5 L	F-A. S-B	223	E1	Category A	SGG18 SG35	
	•	•	•		•	•		<u> </u>	•	-

IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	8	-	III	852	5 L	856	60 L	A3 A803	E1
	8	-	III	Y841	1 L	-	-	A3 A803	E1

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.

14.7. Maritime transport in bulk according to IMO instruments

No data available.



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 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2022/692 (ATP 18)

Container information:

No data available.

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.

Explosives precursors:

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

Particular provisions:

No data available.

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

- less than 5 %: phosphates
- less than 5 %: non-ionic surfactants
- 5 % or over but less than 15 %: EDTA and salts thereof

15.2. Chemical safety assessment

No data 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.

Wording of the phrases mentioned in section 3:

8 P	
H225	Highly flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure .
EUH044	Risk of explosion if heated under confinement.

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. 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 : Time Weighted Averages TMP : French Occupational Illness table

TLV: Threshold Limit Value (exposure)

AEV: Average Exposure Value.

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



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

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

GHS05 : Corrosion

PBT: Persistent, bioaccumulable and toxic. vPvB: Very persistent, very bioaccumulable. SVHC: Substances of very high concern.