

SAFETY DATA SHEET

iQ.5 autodose ultra

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

1.1. Product identifier

▼ *Trade name:*
iQ.5 autodose ultra

Unique formula identifier (UFI):
EHJ0-EYUP-PG7C-UV73

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

Relevant identified uses of the substance or mixture:
Washing and cleaning products (including solvent based products)
Restricted to professional and industrial use.

Uses advised against :
None known.

1.3. Details of the supplier of the safety data sheet

Company and address:
i-team UK
The Alima Centre, 35 Sefton St
L8 5SL Toxteth, Liverpool
United Kingdom
+44 1945 595177

E-mail:
info@hygeniq.com

Revision:
20/03/2026

SDS Version:
4.0

Date of previous version:
09/03/2026 (3.0)

1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 111 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 "First aid measures".

SECTION 2: HAZARDS IDENTIFICATION

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

2.1. Classification of the substance or mixture

Met. Corr. 1; H290, May be corrosive to metals.

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.

Eye Dam. 1; H318, Causes serious eye damage.

2.2. Label elements

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

May be corrosive to metals. (H290)

Causes severe skin burns and eye damage. (H314)

Precautionary statement(s):

General:

Not applicable.

Prevention:

Do not breathe vapour/mist. (P260)

Wear eye protection/protective gloves/protective clothing. (P280)

Response:

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)

Storage:

Store in a container with a resistant inner liner. (P406)

Disposal:

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances:

potassium hydroxide caustic potash

disodium metasilicate

Additional labelling:

UFI: EHJ0-EYUP-PG7C-UV73

2.3. Other hazards

Additional warnings:

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
potassium hydroxide caustic potash	CAS No.: 1310-58-3 EC No.: 215-181-3 UK-REACH: Index No.: 019-002-00-8	15-25%	Acute Tox. 4, H302 Skin Corr. 1A, H314 (C ≥ 5%) Skin Corr. 1B, H314 (2% ≤ C < 5%) Skin Irrit. 2, H315 (0.5% ≤ C < 2%) Eye Irrit. 2, H319 (0.5% ≤ C < 2%)	
Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)	CAS No.: 164462-16-2 EC No.: 423-270-5 UK-REACH: Index No.:	15-25%		
disodium metasilicate	CAS No.: 10213-79-3 EC No.: 229-912-9 UK-REACH: Index No.:	5-10%	Met. Corr. 1, H290 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335	
2,2' -oxybisethanol; diethylene glycol	CAS No.: 111-46-6 EC No.: 203-872-2 UK-REACH: Index No.: 603-140-00-6	3-5%	Acute Tox. 4, H302	
citric acid	CAS No.: 77-92-9 EC No.: 201-069-1 UK-REACH: Index No.: 607-750-00-3	1-3%	Eye Irrit. 2, H319 STOT SE 3, H335	
sodium hydroxide caustic soda	CAS No.: 1310-73-2 EC No.: 215-185-5 UK-REACH: Index No.: 011-002-00-6	<0.25%	Skin Corr. 1A, H314 (C ≥ 5%) Skin Corr. 1B, H314 (2% ≤ C < 5%) Skin Irrit. 2, H315 (0.5% ≤ C < 2%) Eye Irrit. 2, H319 (0.5% ≤ C < 2%)	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.
Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation:

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact:

Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment.

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

Eye contact:

If in eyes: Flush eyes with plenty of water or saline solution (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.

Ingestion:

In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Burns:

Not applicable.

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

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

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

IF exposed or concerned:

Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Not applicable.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO_x)

Carbon oxides (CO / CO₂)

Some metal oxides

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

Hazchem Code: 2R

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.
Ensure adequate ventilation, especially in confined areas.
Contaminated areas may be slippery.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.
Keep unauthorized persons away from the spill

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid direct contact with the product.
Avoid contact during pregnancy and while nursing.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Store in a container with a resistant inner liner.

Recommended storage material:

Keep only in original packaging.

Storage conditions:

Dry, cool and well ventilated

Incompatible materials:

Strong acids
Strong oxidizing agents

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

potassium hydroxide caustic potash
Short term exposure limit (15 minutes) (mg/m³): 2

2,2'-oxybisethanol;diethylene glycol
Long term exposure limit (8 hours) (ppm): 23
Long term exposure limit (8 hours) (mg/m³): 101

sodium hydroxide caustic soda
Short term exposure limit (15 minutes) (mg/m³): 2

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

2,2' -oxybisethanol;diethylene glycol

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	21 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	43 mg/kg bw/day
Long term – Local effects - General population	Inhalation	12 mg/m ³
Long term – Local effects - Workers	Inhalation	60 mg/m ³
Long term – Systemic effects - General population	Inhalation	12 mg/m ³
Long term – Systemic effects - Workers	Inhalation	44 mg/m ³

Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	25 mg/kg bw/day
Long term – Systemic effects - Workers	Dermal	170 mg/kg bw/day
Short term – Local effects - General population	Dermal	400 mg/cm ²
Short term – Local effects - Workers	Dermal	2000 mg/cm ²
Short term – Systemic effects - General population	Dermal	400 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	2000 mg/kg bw/day
Long term – Local effects - General population	Inhalation	2 mg/m ³
Long term – Local effects - Workers	Inhalation	4 mg/m ³
Long term – Systemic effects - General population	Inhalation	20 mg/m ³
Long term – Systemic effects - Workers	Inhalation	40 mg/m ³
Short term – Local effects - General population	Inhalation	20 mg/m ³
Short term – Local effects - Workers	Inhalation	40 mg/m ³
Short term – Systemic effects - General population	Inhalation	20 mg/m ³
Short term – Systemic effects - Workers	Inhalation	40 mg/m ³
Long term – Systemic effects - General population	Oral	17 mg/kg bw/day
Short term – Systemic effects - General population	Oral	85 mg/kg bw/day

disodium metasilicate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	0.74 mg/kg/day
Long term – Systemic effects - Workers	Dermal	1.49 mg/kg/day
Long term – Systemic effects - General population	Inhalation	1.55 mg/m ³
Long term – Systemic effects - Workers	Inhalation	6.22 mg/m ³
Long term – Systemic effects - General population	Oral	0.74 mg/kg/day

potassium hydroxide caustic potash

Duration:	Route of exposure:	DNEL:
Long term – Local effects - General population	Inhalation	0.3 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Short term – Local effects - General population	Inhalation	0.3 mg/m ³
Short term – Local effects - Workers	Inhalation	1 mg/m ³

sodium hydroxide caustic soda

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Dermal	2 %
Long term – Systemic effects - Workers	Dermal	<2 %
Long term – Local effects - General population	Inhalation	1 mg/m ³
Long term – Local effects - Workers	Inhalation	1 mg/m ³

PNEC

Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)

Route of exposure:	Duration of Exposure:	PNEC:
Soil		2.5 mg/kg

disodium metasilicate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		7.5 mg/L
Intermittent release		7,5 mg/L
Marine water		1 mg/L
Sewage treatment plant		1000 mg/L

sodium hydroxide caustic soda

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		6.4 mg/L
Freshwater sediment		23 mg/kg TG
Intermittent release		3.1 mg/L
Intermittent release (marine water)		2.3 mg/kg TG
Marine water		0.64 mg/L
Sewage treatment plant		51 mg/L
Soil		0.853 mg/kg TG

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations:

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios:

There are no exposure scenarios implemented for this product.

Exposure limits:

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures:

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Ensure that eyewash stations and safety showers are located within easy reach.

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures:

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure:

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally:

Use only UKCA marked protective equipment.

Respiratory Equipment:

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				

Skin protection:

Recommended	Type/Category	Standards	
Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester.	-	-	

Hand protection:

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitril	0.35			

Eye protection:

Type	Standards	
Safety glasses with side shields.	EN166	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state:

Liquid

Colour:

Colourless

Odour / Odour threshold:

Characteristic

pH:

>11,5

Density (g/cm³):

1.38 (20 °C)

Kinematic viscosity:

No data available.

Particle characteristics:

Does not apply to liquids.

Phase changes

Melting point/Freezing point (°C):

No data available.

Softening point/range (°C):

Does not apply to liquids.

Boiling point (°C):

No data available.

Vapour pressure:

No data available.

Relative vapour density:

No data available.

Decomposition temperature (°C):

No data available.

Data on fire and explosion hazards

Flash point (°C):

No data available.

Flammability (°C):

No data available.

Auto-ignition temperature (°C):

No data available.

Lower and upper explosion limit (% v/v):

No data available.

Solubility

Solubility in water:

Completely soluble

n-octanol/water coefficient (LogKow):

No data available.

Solubility in fat (g/L):

No data available.

9.2. Other information

Oxidizing properties:

No data available.

Other physical and chemical parameters:

ND: 1.42

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong acids

Strong oxidizing agents

10.6. Hazardous decomposition products

Thermal decomposition may produce corrosive vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

▼ Acute toxicity

Product/substance	potassium hydroxide caustic potash
Species:	Rat, male
Route of exposure:	Oral
Test:	LD50
Result:	333 - 388 mg/kg

Product/substance	Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Species:	Rat
Route of exposure:	Oral
Result:	>2000 mg/kg

Product/substance	Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method:	OECD 402
Species:	Rat
Route of exposure:	Dermal
Result:	>2000 mg/kg

Product/substance	disodium metasilicate
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	1152 mg/kg

Product/substance	disodium metasilicate
Species:	Rat
Route of exposure:	Oral
Test:	NOAEL
Result:	227 mg/kg/day

Product/substance	disodium metasilicate
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	> 5000 mg/kg

Product/substance	disodium metasilicate
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According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Species:	Rat
Route of exposure:	Inhalation
Test:	LC50
Result:	2,06 g/cm ³

Product/substance	citric acid
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	5400 mg/kg

Product/substance	citric acid
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	2000 mg/kg

Product/substance	sodium hydroxide caustic soda
Result:	45.4 mg/L

Product/substance	sodium hydroxide caustic soda
Species:	Rabbit
Test:	LD lo
Result:	500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance	potassium hydroxide caustic potash
Result:	Adverse effect observed (Corrosive)

Product/substance	Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method:	OECD 404
Species:	Rabbit
Result:	No adverse effect observed (Not irritating)

Product/substance	disodium metasilicate
Result:	Adverse effect observed (Corrosive)

Product/substance	sodium hydroxide caustic soda
Result:	Adverse effect observed (Irritating)

Causes severe skin burns and eye damage.

Serious eye damage/irritation

Product/substance	potassium hydroxide caustic potash
Result:	Adverse effect observed (Highly corrosive)

Product/substance	Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method:	OECD 405
Species:	Rabbit
Result:	No adverse effect observed (Not irritating)

Product/substance	disodium metasilicate
Result:	Adverse effect observed (Highly corrosive)

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Product/substance	citric acid
Result:	Adverse effect observed (Irritating)

Product/substance	sodium hydroxide caustic soda
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Corrosive)

Causes serious eye damage.

Respiratory sensitisation

Product/substance	potassium hydroxide caustic potash
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Product/substance	Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method:	OECD 406
Species:	Guinea pig
Result:	No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Carcinogenicity

Based on available data, the classification criteria are not met.

Reproductive toxicity

Based on available data, the classification criteria are not met.

STOT-single exposure

Product/substance	potassium hydroxide caustic potash
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Product/substance	citric acid
Conclusion:	Adverse effect observed

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

11.2. Information on other hazards

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: ECOLOGICAL INFORMATION

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

12.1. Toxicity

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method: OECD 202
Species: Daphnia
Duration: 48 hours
Test: EC50
Result: >100 mg/L

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method: OECD 203
Species: Fish
Duration: 96 hours
Test: LC50
Result: >200 mg/L

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method: OECD 209
Duration: 30 minutes
Test: EC20
Result: >2000 mg/L

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method: OECD 204
Duration: 28 days
Test: NOEC
Result: >=200 mg/L

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method: OECD 202
Duration: 21 days
Test: NOEC
Result: >=200 mg/L

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Species: Fish
Duration: 96 hours
Test: LC50
Result: 105 mg/L

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Species: Algae
Duration: 72 hours
Result: >100 mg/L

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Species: Algae
Duration: 72 hours
Test: EC10
Result: >100 mg/L

Product/substance: Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Test method: OECD 209
Species: Bacteria
Test: NOEC
Result: 1000 mg/L

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Product/substance	disodium metasilicate
Species:	Fish, Brachydanio rerio
Duration:	96 hours
Test:	LC50
Result:	210 mg/L
Product/substance	disodium metasilicate
Species:	Daphnia, Daphnia magna
Duration:	48 hours
Test:	EC50
Result:	1700 mg/L
Product/substance	disodium metasilicate
Species:	Algae, Scenedesmus subspicatus
Duration:	72 hours
Test:	EC50
Result:	207 mg/L
Product/substance	disodium metasilicate
Species:	Scenedesmus subspicatus
Duration:	72 hours
Test:	EC50
Result:	345.4 mg/L
Product/substance	citric acid
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	440 - 706 mg/L
Product/substance	citric acid
Species:	Daphnia magna
Duration:	24 hours
Test:	EC50
Result:	1535 mg/L
Product/substance	sodium hydroxide caustic soda
Species:	Bacteria, Pseudomonas putida
Test:	EC0
Result:	>100 mg/L
Product/substance	sodium hydroxide caustic soda
Species:	Daphnia, Ceriodaphnia dubia
Duration:	48 hours
Result:	40.4 mg/L
Product/substance	sodium hydroxide caustic soda
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Duration:	96 hours
Test:	LC50
Result:	45.4 mg/L

Based on available data, the classification criteria are not met.

12.2. ▼ Persistence and degradability

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

Product/substance	potassium hydroxide caustic potash
Conclusion:	Not biodegradable

Product/substance	Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Result:	>90-<100 %
Conclusion:	-
Test:	OECD 301 F

12.3. Bioaccumulative potential

Product/substance	Alanine, N,N-bis(carboxymethyl)-, sodium salt (1:3)
Conclusion:	-

Product/substance	disodium metasilicate
Conclusion:	Bioaccumulation is not expected

Product/substance	citric acid
LogKow:	-1.8 - -0.2
Conclusion:	Readily biodegradable

Product/substance	sodium hydroxide caustic soda
Conclusion:	Bioaccumulation is not expected

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

Product/substance	potassium hydroxide caustic potash
Conclusion:	No adverse effect observed

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)

HP 8 – Corrosive

Dispose of contents/container to an approved waste disposal plant.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

20 01 15* Alkalines

20 01 29* Detergents containing dangerous substances

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: TRANSPORT INFORMATION

According to REACH Regulation (EC) No 1907/2006, as retained and amended by SI 2019/758 and SI 2020/1577

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR/A DN/RID	UN1814	POTASSIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L Tunnel restriction code: (E) See below for additional information.
IMDG	UN1814	POTASSIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	Limited quantities: 1 L EmS: F-A S-B See below for additional information.
IATA	UN1814	POTASSIUM HYDROXIDE SOLUTION	Transport hazard class: 8 Label: 8 Classification code: C5 	II	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

Hazchem Code: 2R

14.6. Special precautions for user

Not applicable.

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

▼ Restrictions for application:

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education:

No specific requirements.

Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:

Not applicable.

Additional information:

Not applicable.

Sources:

The Management of Health and Safety at Work Regulations 1999.

The Health and Safety at Work etc. Act 1974 Regulations 2013.

Regulation (EC) No 648/2004 on detergents as retained and amended in UK law.

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: OTHER INFORMATION

Full text of H-phrases as mentioned in section 3

H290, May be corrosive to metals.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.

H315, Causes skin irritation.

H318, Causes serious eye damage.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EC = Effective concentration

ED = Effective dose

EINECS = European Inventory of Existing Commercial chemical Substances

EL = Effective Loading

ErC = Concentration associated with x% growth rate response

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

GWP = Global warming potential

HP = Hazardous Property code

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IC = X maximum inhibitory concentration

IMDG = International Maritime Dangerous Goods

LC = Lethal concentration

LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans

LD = Lethal dose

LOAEC = Lowest Observed Adverse Effect Concentration

LOAEL = Lowest Observed Adverse Effect Level

LOEC = Lowest Observed Effect Concentration

LogKow = logarithm of the n-octanol/water coefficient

LL = Lethal Loading

M = For multiplication factor

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NOAEC = No Observed Adverse Effect Concentration

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOELR = No Observable Effect Loading Rate

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

The safety data sheet is validated by

Quality & Compliance

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: GB-en