

Bartoline BBQ Grill Cleaner

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 30/08/2023 Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product name : Bartoline BBQ Grill Cleaner

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Washing and cleaning product

1.2.2. Uses advised against

Restrictions on use : Cosmetics, personal care products

1.3. Details of the supplier of the safety data sheet

EU Supplier

Bartoline Ireland Limited
Unit 3D North Point House
North Point Business Park
New Mallow Road
Cork T23 AT2P
Ireland
+353212066441
info@bartoline.eu

1.4. Emergency telephone number

Emergency number : +44(0)1482 678710 (BST during DST, otherwise GMT)
8.30am - 4.45pm Monday to Friday
NHS 111 - General Public (24 Hour service)

Country	Organisation/Company	Address	Emergency number
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)

Also, in the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Precautionary statements (CLP) : P101 – If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 – Read carefully and follow all instructions.
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

EUH-statements : EUH210: Safety data sheet available on request.

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Extra labelling phrases : Contains: less than 5%: NTA (nitrotriacetic acid) and salts thereof, anionic surfactants, BENZISOTHIAZOLINONE, METHYLISOTHIAZOLINONE.

2.3. Other hazards

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
trisodium nitrotriacetate	CAS-No.: 5064-31-3 EC-No.: 225-768-6 Index-No.: 607-620-00-6 EU REACH Registration No.: 01- 2119519239-36-XXXX	1 – < 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351
Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (voluntarily listed)	CAS-No.: 68411-30-3 EC-No.: 270-115-0 EU REACH Registration No.: 01-2119489428-22-XXXX	0.1 - < 1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Sodium hydroxide (Voluntarily Listed)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 Index-No.: 011-002-00-6 EU REACH Registration No.: 01-2119457892-27-XXXX	< 0.1	Met. Corr. 1 - H290 Skin Corr. 1A - H314

Specific concentration limits:

Name	Product identifier	Specific concentration limits
trisodium nitrotriacetate	CAS-No.: 5064-31-3 EC-No.: 225-768-6 Index-No.: 607-620-00-6 EU REACH Registration No.: 01- 2119519239-36-XXXX	(5 \leq C \leq 100) Carc. 2, H351
Sodium hydroxide	CAS-No.: 1310-73-2 EC-No.: 215-185-5 Index-No.: 011-002-00-6 EU REACH Registration No.: 01-2119457892-27-XXXX	(0.5 \leq C < 2) Eye Irrit. 2, H319 (5 \leq C \leq 100) Skin Corr. 1A, H314 (2 \leq C < 5) Skin Corr. 1B, H314 (0.5 \leq C < 2) Skin Irrit. 2, H315

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell. This is a non hazardous mixture and as such any ill health effects are unlikely to have been caused by contact with this product.
First-aid measures after inhalation	: Inhalation unlikely. Get medical advice/attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. If breathing is difficult, trained personnel should give oxygen.
First-aid measures after skin contact	: Take off contaminated clothing. Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove any contact lenses and open eyelids wide apart. Rinse opened eye for several minutes under running water. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. If the person is fully conscious, make him/her drink plenty of water. Never give an unconscious person anything to drink. Do not induce vomiting. Get medical advice/attention if you feel unwell.
Self Protection of the first aider	: Wear recommended personal protective equipment (For further information refer to section 8: "Exposure controls/personal protection") if contact/exposure with the product is likely

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	: May cause Sore throat.
Symptoms/effects after skin contact	: Prolonged or repeated contact may dry skin and cause irritation. May cause Rednesses.
Symptoms/effects after eye contact	: May cause eye irritation, redness and/or pain.
Symptoms/effects after ingestion	: May cause sore throat

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Use extinguishing agent suitable for surrounding fire.
Unsuitable extinguishing media	: None known.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentrations.
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5.3. Advice for firefighters

Precautionary measures fire	: Avoid breathing vapours from fire.
Firefighting instructions	: For containers exposed to flames, cool laterally with water, even after the fire is extinguished.
Protection during firefighting	: Wear fire/flame resistant/retardant clothing. In confined space use self-contained breathing apparatus. Full face piece respirator. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incident.
Other information	: Keep run-off water out of sewers and water sources. Containers close to fire should be removed or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Evacuate area.
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6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection."
- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Keep unnecessary and unprotected personnel away from the spillage. Do not touch or walk on the spilled product. Wash thoroughly after dealing with a spillage. Stop leak if safe to do so.

6.1.2. For emergency responders

- Protective equipment : Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection."

6.2. Environmental precautions

Do not discharge into drains or the environment. Do not allow to enter drains or water courses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body. Turn leaking containers leak-side up to prevent the escape of liquid.

6.3. Methods and material for containment and cleaning up

- For containment : Turn leaking containers leak-side up to prevent the escape of liquid.
- Methods for cleaning up : Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable closed container for disposal. Wash contaminated area with large amounts of water.
- Other information : The aforementioned closed container should be disposed off at a local household waste collection point (for consumers) or by contracting a waste management company (for professionals).

6.4. Reference to other sections

For further information on personal protection refer to section 8: "Exposure controls/personal protection". For further information on Disposal Considerations refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Read label before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid contact with skin and eyes. Avoid spilling product and keep away from drains. Do not handle alongside acids.
- Hygiene measures : Do not eat, drink or smoke when using this product. After contact with skin, wash immediately and thoroughly with water and soap. Take off immediately all contaminated clothing and wash it before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store tightly closed in a dry, cool and well-ventilated place. Keep only in original container. Protect from freezing. Keep out of direct sunlight. Store away from acids.
- Storage temperature : 5 – 30 °C
- Incompatible Products : acids

7.3. Specific end use(s)

Washing and cleaning product (see Section 1.2). Keep out of reach of children. Apply "common sense" measures when handling this product. Always follow on pack instructions when using this product. Keep containers closed when not in use. Where possible avoid prolonged contact with the skin. People with sensitive skin should wear rubber protective gloves.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Sodium hydroxide (1310-73-2)		
Republic of Ireland – Occupational Exposure Limit (OEL)		
OEL STEL (15 min)	2 mg/m ³	(Chemical Agents and Carcinogens Code of Practice 2021)
United Kingdom – Occupational Exposure Limit (OEL)		
OEL STEL (15 min)	2 mg/m ³	(EH40/2005 – 4 th Edition 2020)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Trisodium Nitrilotriacetate (CAS: 5064-31-3)		
DNEL/DMEL (Workers)		
Short-term - systemic effects, inhalation	5.25 mg/m ³	
Long-term - systemic effects, inhalation	3.5 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation	1.75 mg/m ³	
PNEC (Water)		
PNEC aqua (freshwater)	930 µg/l	
PNEC aqua (marine water)	93 µg/l	
PNEC aqua (intermittent, freshwater)	915 µg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.64 mg/kg dw	
PNEC sediment (marine water)	0.364 m/kg dw	
PNEC (Soil)		
PNEC soil	0.182 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	540 mg/l	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)

DNEL/DMEL (Workers)		
Long-term - systemic effects, dermal	119 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	7.6 mg/m ³	
DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation	1.3 mg/m ³	
Long-term – systemic effects, oral	0.425 mg/kg bodyweight/day	
Long-term - systemic effects, dermal	42.5 mg/kg bodyweight/day	

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Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
PNEC (Water)	
PNEC aqua (freshwater)	268 µg/l
PNEC aqua (marine water)	26.8 µg/l
PNEC aqua (intermittent, freshwater)	16.7 µg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	8.1 mg/kg dw
PNEC sediment (marine water)	6.8 mg/kg dw
PNEC (Soil)	
PNEC soil	35 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	3.43 mg/l

Sodium hydroxide (1310-73-2)	
DNEL/DMEL (Workers)	
Short-term - local effects, dermal	2 mg/kg bodyweight/day
Short-term - local effects, inhalation	2 mg/m ³
Long-term - local effects, inhalation	1 mg/m ³
Short-term - systemic effects, inhalation	9.6 mg/m ³
Long-term - systemic effects, inhalation	3.2 mg/m ³
DNEL/DMEL (General population)	
Short-term - systemic effects, inhalation	2.4 mg/m ³
Short-term – systemic effects, oral	0.9 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.8 mg/m ³
Long-term – systemic effects, oral	0.3 mg/kg bodyweight/day
Long-term - local effects, inhalation	1 mg/m ³
PNEC (Water)	
PNEC aqua (freshwater)	930 µg/l
PNEC aqua (marine water)	93 µg/l
PNEC aqua (intermittent, freshwater)	800 µg/l
PNEC (STP)	
PNEC sewage treatment plant	270 mg/l

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

No specific ventilation requirements.

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8.2.2. Personal protection equipment

Personal protective equipment:

Do not attempt to take action without suitable protective equipment.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Chemical goggles or safety glasses

Eye protection			
Type	Field of application	Characteristics	Standard
Use splash goggles when eye contact due to splashing is possible	Droplet	With side shields	EN 166

8.2.2.2. Skin protection

Hand protection:

Although the product is not classified as a skin irritant, the wearing of gloves is recommended for people with sensitive skin or for prolonged or repeated use. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. Polyvinyl chloride (PVC). Rubber (natural, latex). Gloves with a minimum layer thickness of 0.11mm and break through time of greater than 240 minutes would suffice

Other skin protection

Not required for normal conditions of use

8.2.2.3. Respiratory protection

Respiratory protection:

No respiratory protection needed under normal use conditions

8.2.2.4. Thermal hazards

Thermal hazard protection:

Not applicable.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Keep container closed when not in use. Do not allow into drains or water courses.

Other information:

Always wash hands after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Pink.
Appearance	: Pink liquid.
Odour	: Detergent
Odour threshold	: Not available
Melting point/ Freezing point	: Not applicable.
Boiling point	: 100 °C
Flammability	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not applicable. / Water Based
Auto-ignition temperature	: Not applicable.
Decomposition temperature	: Not available.

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pH	: 9 - 11
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 29 – 34 Seconds (B2 FLOW CUP)
Solubility	: soluble in water. Insoluble in organic solvents.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not applicable.
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: 0.995 – 1.055 @ 15°C
Relative vapour density at 20 °C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content	: Not relevant.
Volatility	: Water based.
Evaporation Rate	: Not available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use apart from neutralisation reactions with acids.

10.2. Chemical stability

Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. However if in contact with acids, can get neutralisation reactions with acids which can release heat.

10.4. Conditions to avoid

High temperature. Direct sunlight. Freezing.

10.5. Incompatible materials

Acids,

10.6. Hazardous decomposition products

No known hazardous decomposition products when product is used for intended use. However Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentrations

SECTION 11: Toxicological information

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

Acute toxicity (oral)	: Based on available data, the classification criteria are not met.
Acute toxicity (dermal)	: Based on available data, the classification criteria are not met.
Acute toxicity (inhalation)	: Based on available data, the classification criteria are not met.

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ATE _{MIXTURE} Oral	> 2000	(Calculated)
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trisodium nitrilotriacetate (5064-31-3)	
LD50 oral	1450 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation (dust)	> 5 mg/L, Animal: rat, Guideline: Not specified

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
LD50 oral	1080 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation : Based on available data, the classification criteria are not met.
pH: 9 - 11

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
Causes skin irritation (based on severity from mean scores), Animal: Rabbit, Guideline: OECD Guideline 404	

Sodium hydroxide (1310-73-2)	
Causes severe skin burns and eye damage (from Part 3 of Annex VI from CLP)	
In vivo test, animal: Yorkshire weanling pigs, aqueous concentration of sodium hydroxide: 8%, 16% and 24%, Result: For all concentrations, gross blisters developed within 15 minutes of applicatio and severe necrosis seen in all epidermal layers. Reference: Srikrishna V et al. (1991). The Effects of Sodium Hydroxide and Hydrochloric Acid on Isolated Perfused Skin. In Vitro Toxicology, 4, 207–215. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide)	
In Vivo Test, Human Patch Test, Exposure: 1h, animal: human, aqueous concentration of sodium hydroxide 0.5%, Result: Irritating for 55 % of the volunteers, Reference: Griffiths et al. (1997). Interlaboratory evaluation of a Human patch test for the identification of skin irritation Potential/Hazard. Food and Chemical Toxicology, 35, 255-260. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide)	
In Vivo Test, Human Patch Test, exposure: 15min – 60 min, animal: human, aqueous concentration of sodium hydroxide 0.5%, Result: Irritating for 61 % of the volunteers, Reference: York et al. (1996), Contact Dermatitis, 34, 204-212. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide)	
Conclusion: In 2 different studies a concentration of 0.5 % was irritating for only 55 and 61 % of the volunteers, respectively and therefore it is assumed that a concentration, which is slightly lower than 0.5 %, is non-irritating concentration	

Serious eye damage/irritation : Based on available data, the classification criteria are not met.
pH: 9 - 11

trisodium nitrilotriacetate (5064-31-3)	
Causes serious eye irritation (from Part 3 of Annex VI from CLP)	
Causes serious eye irritation (based on severity from mean scores and irreversible damage seen), Animal: Rabbit, Guideline: OECD Guideline 405	

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
Causes serious eye damage (based on severity from mean scores and irreversible damage seen), Animal: Rabbit, Guideline: OECD Guideline 405	

Sodium hydroxide (1310-73-2)	
Causes severe skin burns and eye damage (from Part 3 of Annex VI from CLP)	

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Sodium hydroxide (1310-73-2)

In vivo test, Method: Dose of 0.1 ml in lower conjunctival sac of left eye, exposure: 21 d, animal: rabbit, aqueous concentration of sodium hydroxide: 0.004 – 1.2%, Result: 0.004-0.2: non-irritant, 0.4 %: mild irritation, 1.2 % corrosive. Reference: Morgan et al. (1987). Prediction of Ocular Irritation by Corneal Pachymetry. Food Chem Toxicol, 25, 609-613.. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide)

In vivo test, Method: OECD Guideline 405, aqueous concentration of sodium hydroxide: 1 – 2 %, Result: based on mean scores, 1% was non-irritating whilst 2% was irritating. Reference : Jacobs GA (1992). OECD Eye Irritation Tests on Sodium hydroxide. J Amer Coll Toxicol, 11, 725. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide)

Respiratory or skin sensitisation : 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.

trisodium nitrilotriacetate (5064-31-3)

Suspected of causing cancer due to sufficient animal evidence (IARC Group 2B)

The trisodium salt was tested for carcinogenicity in mice and rats by oral administration. When administered in the diet as the monohydrate, it induced haematopoietic tumours in male mice and benign and malignant tumours of the urinary system (kidney, ureter and bladder) in rats of each sex. When administered in drinking-water to male rats, it induced renal tubular adenomas and adenocarcinomas. In two-stage studies of carcinogenicity in male rats treated by oral administration, nitrilotriacetic acid and its trisodium salt increased the incidence of urinary-tract tumours after pretreatment with various N-nitrosamine.

NOAEL (chronic, oral, animal/male, 2 years)	100 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 451 (Carcinogenicity Studies), Remarks on results: other:
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Reproductive toxicity : Based on available data, the classification criteria are not met.
STOT-single exposure : 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.

11.2. Information on other hazards

11.2.1 Endocrine Disrupting Properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

11.2.2 Other Information

No additional information available.

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Based on available data, the classification criteria are not met.
Hazardous to the aquatic environment, long-term (chronic) : Based on available data, the classification criteria are not met.

trisodium nitrilotriacetate (5064-31-3)

LC50 96h- Fish	103 mg/l, Test organisms (species): Pimephales promelas, Guideline: APHA (1971) Standard Methods for the Examination of Water and Wastewater 13th ed, Reference: Arthur, J., Lemke A.E., Mattson V.R., Halligan B.J. Toxicity of sodium Nitrilotriacetate (NTA) to the Fathead Minnow and an Amphipod in Soft Water Water Research Vol 8 pp 187-193 (1974).
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EC50 48h - Crustacea	80 mg/l, Test organisms (species): Gammarus pseudolimnaeus, Guideline: APHA (1971) Standard Methods for the Examination of Water and Wastewater 13th ed, Reference: Arthur, J., Lemke A.E., Mattson V.R., Halligan B.J. Toxicity of sodium Nitrilotriacetate (NTA) to the Fathead Minnow and an Amphipod in Soft Water Water Research Vol 8 pp 187-193 (1974).
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trisodium nitrilotriacetate (5064-31-3)	
EC50 72h - Algae [2]	> 91.5 mg/l, Test organisms (species): Scenedesmus subspicatus, Guideline: OECD Guideline 201 (Alga, Growth Inhibition Test) & EU Method C.3 (Algal Inhibition test).
NOEC 72h - Algae	1.43 mg/l, Test organisms (species): Scenedesmus subspicatus, Guideline: OECD Guideline 201 (Alga, Growth Inhibition Test) & EU Method C.3 (Algal Inhibition test).
NOEC 229d - Fish	103 mg/l, Test organisms (species): Pimephales promelas, Guideline: EPA OPP 72-5 (Fish Life Cycle Toxicity), Reference: Arthur, J., Lemke A.E., Mattson V.R., Halligan B.J. Toxicity of sodium Nitrilotriacetate (NTA) to the Fathead Minnow and an Amphipod in Soft Water Water Research Vol 8 pp 187-193 (1974).

Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	
LC50 96 h - Fish	1.67 mg/l, Test organisms (species): Lepomis macrochirus, Guideline: USEPA 850.1075, 1996
LC50 96 h - Fish [2]	2.88 mg/l Test organisms (species): Pimephales promelas, Guideline: OECD Guideline 203 (Fish, Acute Toxicity Test)
EC50 48 h- Crustacea	2.9 mg/l Test organisms (species): Daphnia magna, Guideline: OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
EC50 96h - Algae	29 mg/l Test organisms (species): Pseudokirchneriella subcapitata, Reference: Larson, R.J. and S.L. Schaeffer, A rapid method for determining the toxicity of chemicals to activated sludge, 1982 Water Res. 16: 675-680
NOEC 21d - Crustacea	1.18 mg/l Test organisms (species): Daphnia magna, Guideline: OECD Guideline 211 (Daphnia magna Reproduction Test)
NOEC 72 d - Fish	0.23 mg/l Test organisms (species): Oncorhynchus mykiss, Guideline: OECD Guideline 210 (Fish, Early-Life Stage Toxicity Test)

Sodium hydroxide (1310-73-2)	
EC50 48 h - Crustacea	40 mg/l Test organisms (species): Cenodaphnia quadrangular, Reference: NITE Chemical Risk Information Platform (NITE-CHRIP) - GHS Classification Guidance by the Japanese Government (March, 2009)

12.2. Persistence and degradability

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Persistence and degradability of Mixture	No information available
Persistence and degradability of trisodium nitrilotriacetate (5064-31-3)	50% degradation (DOC Removal) at 9 d and 100% degradation (DOC Removal) at 14 d Guideline: OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test) 96% degradation (DOC Removal) at 28 d, Guideline: OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA Test) 90 - 100% degradation (DOC Removal) at 7 d, Guideline: OECD Guideline 301 E (Ready biodegradability: Modified OECD Screening Test) Conclusion: trisodium nitrilotriacetate is readily biodegradable
Persistence and degradability of Surfactants	The surfactant(s) contained in this product comply with the biodegradability criteria as laid down in The Detergents Regulations (as amended). Biodegradability for Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts: 83% degradation (CO2 Evolution) within 28 d, Guideline: OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test) & > 98% degradation (CO2 Evolution) at 28 d, Guideline: OECD Guideline 301 D (Biodegradation Closed Bottle Test)

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12.3. Bioaccumulative potential

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Bioaccumulative potential of Mixture	No information available
Bioaccumulative potential of Benzenesulfonic acid, C10-13-alkyl derivs., sodium salts (68411-30-3)	BCF = 2 – 1000 L/kg Guideline: OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test). Results show that the bioconcentration potential of substance is low
Bioaccumulative potential of of trisodium nitrilotriacetate (5064-31-3)	Has a low log Kow (-13.2 at pH 7), is highly water-soluble and is readily biodegradable, which suggests that this substance is not expected to accumulate in biological tissues or bioaccumulate in foodwebs.
Bioaccumulative potential of of sodium hydroxide (1310-73-2)	Considering its high water solubility, NaOH is not expected to bioconcentrate in organisms. Log Pow is not applicable for an inorganic compound that dissociates. In addition, sodium is a naturally-occurring element that is prevalent in the environment and to which organisms are exposed regularly, for which they have some capacity to regulate the concentration in the organisms (via homeostatic mechanisms).

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

12.6. Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

12.7. Other adverse effects

No other adverse effects are known as of yet for this mixture or any substances contained in this mixture

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This product is not classified as Hazardous Waste as it is supplied.
Waste generation should be avoided or minimised where possible. When handling waste, the safety precautions applying to handling of the product should be considered. Label the containers containing waste and remove from the area as soon as possible. Label the containers containing waste contaminated material and remove from the area as soon as possible.
Product disposal to sewer should be avoided, if possible, and only be carried out after treatment, and under relevant rules, e.g. Consent to Discharge. Where wastes undergo disposal, external recovery or treatment, it must comply with the requirements of environmental protection, waste disposal legislation and any local authority requirements. If wastes undergo incineration, they must be suitable for it at an approved facility.
Used packaging waste should be reused or recycled, if uncontaminated. Contaminated packaging should be cleaned on site, if appropriate facilities exist, including any relevant rules or permits, or offsite by a specialist provider. Contaminated packaging which cannot be safely cleaned must be treated in the same way as the product, and should only be disposed of as a last resort.
List of waste code is 20 01 30 - detergents other than those mentioned in 20 01 29. These codes have been assigned based on the actual composition of the product as supplied. Seek advice from a hazardous/non-hazardous waste specialist for waste classification.

SECTION 14: Transport information

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

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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shipping name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

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Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : Not relevant.

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

Detergent Regulation ((EC) No 648/2004)

Product is under the scope of this regulation.

15.2. Chemical safety assessment

No Chemical Safety Assessment has taken place for this mixture.

SECTION 16: Other information

Indication of changes:

Due to change of classification database the revision numbering has been reset. You should therefore look at the revision date rather than the revision number to ensure you have the most up to date version.

Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
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.
H351	Suspected of causing cancer.
H412	Harmful to aquatic life with long lasting effects.
EUH210	Safety data sheet available on request.

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
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Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
bw	Bodyweight
ATP	Adaptation to Technical Progress
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CLP	The Classification, Labelling and Packaging
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
M	M Factor
mg	Milligrams
NI	Northern Ireland
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
ROI	Republic of Ireland
SCL	Specific Classification Limit
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit

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Abbreviations and acronyms:	
VOC	Volatile Organic Compounds
CAS-No.:	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Key literature references and sources for data

- ECHA (European Chemicals Agency). <http://echa.europa.eu/>, - REACH disseminated dossiers of substances included in Section 3
- Supplier's Safety documents
- NITE Chemical Risk Information Platform (NITE-CHRIP) - GHS Classification Guidance by the Japanese Government for substances included in Section 3.2 of SDS.
- Srikrishna V et al. (1991). The Effects of Sodium Hydroxide and Hydrochloric Acid on Isolated Perfused Skin. *In Vitro Toxicology*, 4, 207–215. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide)
- Larson, R.J. and S.L. Schaeffer, A rapid method for determining the toxicity of chemicals to activated sludge, 1982 *Water Res.* 16: 675-680
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- York et al. (1996), Contact Dermatitis, 34, 204-212. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide).
- Arthur, J., Lemke A.E., Mattson V.R., Halligan B.J. Toxicity of sodium Nitrilotriacetate (NTA) to the Fathead Minnow and an Amphipod in Soft Water *Water Research* Vol 8 pp 187-193 (1974).
- Morgan et al. (1987). Prediction of Ocular Irritation by Corneal Pachymetry. *Food Chem Toxicol*, 25, 609-613. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide).
- Jacobs GA (1992). OECD Eye Irritation Tests on Sodium hydroxide. *J Amer Coll Toxicol*, 11, 725. Cited in OECD SIDS Initial Assessment Report For SIAM 14 (Sodium Hydroxide)
- IARC Working Group on the Evaluation of Carcinogenic Risks to Humans. Some Chemicals that Cause Tumours of the Kidney or Urinary Bladder in Rodents and Some Other Substances. Lyon (FR): International Agency for Research on Cancer; 1999. (IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, No. 73., p.385) Nitrilotriacetic acid and its salts.

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.