Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Ireland and United Kingdom: Northern Ireland Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

# SAFETY DATA SHEET

**DETTOL Washing Machine Cleaner Lemon Breeze** 



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

1.1 Product identifier

**Product name** 

**DETTOL Washing Machine Cleaner Lemon Breeze** 

SDS no. D8278274 ż

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Formulation # **Product type** 

FF8266468 2 ż Liquid.

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

Consumer use

**Identified uses** 

#### 1.3 Details of the supplier of the safety data sheet

#### **Supplier**

The United Kingdom: **RB UK Hygiene Home Commercial Ltd** Wellcroft House Wellcroft Road Slough, Berkshire SL1 4AQ Tel: 0800 376 8181 Email: ConsumerCare\_UK@reckitt.com

#### The Republic Of Ireland:

**RB** Ireland Hygiene Home Commercial Ltd 7 Riverwalk **Citywest Business Campus** Dublin 24 Ireland Tel: 01 661 7318 Email: ConsumerHealth IE@reckitt.com

#### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

: GB - NHS 111/NHS 24 Tel: 111 **Telephone number** 

NI - www.gpoutofhours.hscni.net/

IE - Poisons Information Centre of Ireland: 01 809 2166 8am-10pm 7 days a week

### **SECTION 2: Hazards identification**

2.1 Classification of the substance or mixture **Product definition** 

: Mixture

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

Met. Corr. 1, H290 Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412

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### **SECTION 2: Hazards identification**

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

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See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements



		•
Signal word	:	Danger
Hazard statements	:	May be corrosive to metals. Causes severe skin burns and eye damage. Harmful to aquatic life with long lasting effects.
Precautionary statements		
General	:	Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	:	Wear eye or face protection. Wear protective gloves and protective clothing. Avoid release to the environment.
Response	:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Storage	:	Not applicable
Disposal	1	Not applicable.
Hazardous ingredients	1	Benzalkonium chloride, Lactic acid, Bis(3-Aminopropyl) dodecylamine
Supplemental label elements	:	Ingredient Declaration: Out of 100 g of product contains 2.25 g of benzalkonium chloride, 9.99 g of lactic acid, 0.129 g bis(3-Aminopropyl) dodecylamine, Contains less than 5% non-ionic surfactant Disinfectant Perfume Contains Citral, Citronellol, Hexylcinnamal, Limonene and Linalool. May produce an allergic reaction.
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	•	Yes, applicable.
Tactile warning of danger	:	Yes, applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do : None known. not result in classification

### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
L-(+)-lactic acid	REACH #: 01-2119474164-39 EC: 201-196-2 CAS: 79-33-4 Index: 607-743-00-5	≤10	Skin Corr. 1C, H314 Eye Dam. 1, H318 EUH071	-	[1]
BENZALKONIUM CHLORIDE	REACH #: 01-2119983287-23 EC: 270-325-2 CAS: 68424-85-1	<2.5	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 344 mg/kg M [Acute] = 10 M [Chronic] = 1	[1]
Alcohols, C10-16, ethoxylated propoxylated	CAS: 69227-22-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
CITRIC ACID	REACH #: 01-2119457026-42 EC: 201-069-1 CAS: 77-92-9	≤3	Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
POLYQUATERNIUM-33	CAS: 69418-26-4	≤3	Eye Irrit. 2, H319	-	[1]
N-(3-aminopropyl)-N- dodecylpropane- 1,3-diamine	EC: 219-145-8 CAS: 2372-82-9	≤0.3	Acute Tox. 3, H301 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT RE 2, H373 (oral) Aquatic Acute 1, H400 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 261 mg/kg M [Acute] = 10	[1]

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

4.1 Description of first	aid measures
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

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belt or waistband. In case of inhalation of decomposition products in a fire,

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### **SECTION 4: First aid measures**

	symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Over-exposure signs/	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any in	nmediate medical attention and special treatment needed

#### a da seleccate position products in a fire symptom

Specific treatments	: No specific treatment.
Notes to physician	The exposed person may need to be kept under medical surveillance for 48 hours.

# **SECTION 5: Firefighting measures**

5.1 Extinguishing media Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.

#### 5.2 Special hazards arising from the substance or mixture

Hazards from the : This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being substance or mixture discharged to any waterway, sewer or drain.

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# SECTION 5: Firefighting measures

Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

### **SECTION 6: Accidental release measures**

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3 Methods and material for	со	ntainment and cleaning up

Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Absorb spillage to prevent material damage. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Absorb spillage to prevent material damage. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
6.4 Reference to other sections	: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Absorb spillage to prevent material damage.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store in corrosive resistant container with a resistant inner liner. Store locked up. Keep away from metals. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

#### 7.3 Specific end use(s)

**Recommendations** 

- : Consumer use
- Industrial sector specific solutions
- : Not available.

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

**Occupational exposure limits** 

No exposure limit value known.

### **DNELs/DMELs**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
BENZALKONIUM CHLORIDE	DNEL	Long term Inhalation	1.64 mg/m <sup>3</sup>	General population [Consumers]	Systemic
	DNEL	Long term Oral	3.4 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	1.64 mg/m <sup>3</sup>	• •	Systemic
	DNEL	Long term Oral	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	3.4 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	3.96 mg/m <sup>3</sup>		Systemic
te of issue/Date of revision : 10	/03/2023	Date of previous issue	: No prev	ious validation Ve	ersion : 1 6/1

# SECTION 8: Exposure controls/personal protection DNEL Long term Dermal 5.7 mg/kg bw/day Workers Systemic

Product/ingredient name	Compartment Detail	Value	Method Detail
BENZALKONIUM CHLORIDE	Fresh water	0.001 mg/l	-
	Marine water	0.001 mg/l	-
	Sewage Treatment Plant	0.4 mg/l	-
	Fresh water sediment	12.27 mg/kg dwt	-
	Marine water sediment	13.09 mg/kg dwt	-
CITRIC ACID	Fresh water	440 mg/l	-
	Fresh water sediment	34.6 mg/kg	-
	Marine water sediment	3.46 mg/kg	-
	Soil	33.1 mg/kg	-

8.2 Exposure controls	
Appropriate engineering controls	<ul> <li>If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.</li> </ul>
Individual protection mea	<u>sures</u>
Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection	
Hand protection	<ul> <li>EN 16523-1:2015 Tested for protection against chemical permeation. Low chemical resistant or waterproof gloves. (EN 16523-1:2015 supersedes EN 374-3:2003) EN 374-2:2003 Tested for protection against liquid penetration and micro-organisms. EN 388:2003 Tested for protection against mechanical risks (abrasion, blade cut resistance, tear resistance and puncture resistance). ISO 374-1:2016/Type A Protective glove with permeation resistance of at least 30 minutes each for at least 6 test chemicals. ISO 374-1:2016/Type B Protective glove with permeation resistance of at least 30 minutes each for at least 3 test chemicals. ISO 374-1:2016/Type C Protective glove with permeation resistance of at least 10 minutes for at least 1 test chemical. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.</li></ul>
Body protection	: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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### **SECTION 8: Exposure controls/personal protection**

Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets th appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other importa aspects of use.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation In some cases, fume scrubbers, filters or engineering modifications to the proces equipment will be necessary to reduce emissions to acceptable levels.

### **SECTION 9: Physical and chemical properties**

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### 9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. [Transparent] Colour : Yellow. Odour : Fragrant. : Not relevant/applicable due to nature of the product. Melting point/freezing point : Not relevant/applicable due to nature of the product. Initial boiling point and boiling range Flammability (solid, gas) : Not relevant/applicable due to nature of the product. Upper/lower flammability or : Not relevant/applicable due to nature of the product. explosive limits **Flash point** : Closed cup: >93.3°C (>199.9°F) Not relevant/applicable due to nature of the product. **Auto-ignition temperature** Not relevant/applicable due to nature of the product. **Decomposition temperature** 21 2.3 to 2.7 [Conc. (% w/w): 100%] pH Dynamic: 110 to 290 mPa·s Viscosity ŝ, Solubility(ies) 2 Media Result cold water Easily soluble hot water Easily soluble Partition coefficient: n-octanol/ ÷. Not relevant/applicable due to nature of the product. water Vapour pressure : Not relevant/applicable due to nature of the product. **Relative density** : 1 to 1.1 Density : 1 to 1.1 g/cm<sup>3</sup> [20°C (68°F)] : Not relevant/applicable due to nature of the product. Vapour density **Particle characteristics** Median particle size : Not relevant/applicable due to nature of the product.

# **SECTION 10: Stability and reactivity**

10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials		Reactive or incompatible with the following materials: metals
10.6 Hazardous decomposition products		Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological information**

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

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
BENZALKONIUM CHLORIDE	LD50 Dermal	Rabbit	2848 mg/kg	-
	LD50 Dermal	Rabbit	3413 mg/kg	-
	LD50 Oral	Rat	344 mg/kg	-
	LD50 Oral	Rat	398 mg/kg	-
CITRIC ACID	LD50 Oral	Rat	11700 mg/kg	-
N-(3-aminopropyl)-N- dodecylpropane-1,3-diamine	LD50 Oral	Rat	261 mg/kg	-

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Dettol Washing Machine Cleaner_8266468 (D8278274) EU	12204.8	N/A	N/A	N/A	N/A
BENZALKÓNIUM CHLORIDE	344	2848	N/A	N/A	N/A
CITRIC ACID	11700	N/A	N/A	N/A	N/A
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	261	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
L-(+)-lactic acid BENZALKONIUM CHLORIDE CITRIC ACID	Skin - Irritant Skin - Severe irritant Eyes - Severe irritant	Rabbit Rabbit Rabbit	-	24 hours 25 mg 24 hours 750	-
	Eyes - Severe initalit	Γαυριί	-	ug	-

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

#### **Conclusion/Summary** Skin

: Calculation method Causes skin irritation.

Eyes

: Calculation method Causes serious eye damage.

### Respiratory

**Sensitisation** 

# **SECTION 11: Toxicological information**

Product/ingredient name	Route of exposure		Species		Result
L-(+)-lactic acid BENZALKONIUM CHLORIDE	skin skin	Guine Guine		Not sensitiz Not sensitiz	
Conclusion/Summary					
Skin	: Contains Allerge	en. Ma	y produce an allergic rea	ction.	
Respiratory	: Based on availa	ble da	ta, the classification crite	ria are not m	et.
Mutagenicity					
Product/ingredient name	Test		Experiment	t	Result
BENZALKONIUM CHLORIDE	OECD 471 Bacter Reverse Mutation OECD 473 In vitro Mammalian Chromosomal Aberration Test OECD 476 In vitro Mammalian Cell G Mutation Test	Test	Experiment: In vitro Subject: Bacteria Experiment: In vitro Subject: Mammalian-Ar Experiment: In vitro Subject: Mammalian-Ar		Negative Negative Negative
Conclusion/Summary	: Based on availa	ble da	ta, the classification crite	ria are not m	et.
Carcinogenicity Conclusion/Summary Reproductive toxicity	: Based on availa	ıble da	ta, the classification crite	ria are not m	et.
Conclusion/Summary	: Based on availa	ble da	ta, the classification crite	ria are not m	et.

**Teratogenicity** 

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
BENZALKONIUM CHLORIDE	Category 3	-	Respiratory tract irritation
CITRIC ACID	Category 3	-	Respiratory tract irritation

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
N-(3-aminopropyl)-N-dodecylpropane-1,3-diamine	Category 2	oral	-

#### Aspiration hazard

Not available.

# Information on likely routes : Not available. of exposure

Potential acute health effects		
Eye contact	Causes serious eye damage.	
Inhalation	No known significant effects or critical ha	azards.
Skin contact	Causes severe burns.	
Ingestion	No known significant effects or critical ha	azards.

#### Symptoms related to the physical, chemical and toxicological characteristics

# **SECTION 11: Toxicological information**

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects as well as chronic effects from short and long-term exposure			
: Not available.			
: Not available.			
: Not available.			
: Not available.			
ects			
: Based on available data, the classification criteria are not met.			
: No known significant effects or critical hazards.			
: No known significant effects or critical hazards.			
: No known significant effects or critical hazards.			
: No known significant effects or critical hazards.			

#### 11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available. **11.2.2 Other information** 

Not available.

## **SECTION 12: Ecological information**

#### **12.1 Toxicity**

Result	Species	Exposure
Acute EC50 240000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
Acute LC50 130 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Acute EC50 0.016 mg/l	Daphnia	48 hours
Acute LC50 64 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
Chronic EC10 0.009 mg/l	Algae	72 hours
Acute LC50 160000 μg/l Marine water	Crustaceans - Carcinus maenas - Adult	48 hours
Acute EC50 0.073 ppm Fresh water	Daphnia - Daphnia magna	48 hours
Acute EC50 0.68 mg/l	Fish	96 hours
Acute LC50 0.45 ppm Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute EC50 240000 µg/l Fresh water Acute LC50 130 ppm Fresh water Acute EC50 0.016 mg/l Acute LC50 64 ppb Fresh water Chronic EC10 0.009 mg/l Acute LC50 160000 µg/l Marine water Acute EC50 0.073 ppm Fresh water Acute EC50 0.68 mg/l	Acute EC50 240000 µg/l Fresh water Acute LC50 130 ppm Fresh water Acute EC50 0.016 mg/lDaphnia - Daphnia magna Fish - Oncorhynchus mykiss DaphniaAcute LC50 64 ppb Fresh water Chronic EC10 0.009 mg/l Acute LC50 160000 µg/l Marine waterFish - Oncorhynchus mykiss AlgaeAcute EC50 0.073 ppm Fresh water Acute EC50 0.68 mg/lFish - Oncorhynchus mykiss Fish - Oncorhynchus mykiss AlgaeFish - Chronic EC10 0.009 mg/l Acute EC50 0.073 ppm Fresh waterFish - Oncorhynchus mykiss AlgaeAcute EC50 0.073 ppm Fresh waterFishAcute EC50 0.68 mg/lFish

## **SECTION 12: Ecological information**

### 12.2 Persistence and degradability

Conclusion/Summary	: Not available.		
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
BENZALKONIUM CHLORIDE	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
CITRIC ACID N-(3-aminopropyl)-N- dodecylpropane-1,3-diamine	-1.8 -	- 3.16	low low

12.4 Mobility in soil	
Soil/water partition	: Not available.
coefficient (Koc)	
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

#### 12.6 Endocrine disrupting properties

Not available.

#### 12.7 Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

#### European waste catalogue (EWC)

Waste code	Waste designation		
20 01 29*	detergents containing hazardous substances		
Packaging			
Methods of disposal	<ul> <li>The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.</li> </ul>		
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		
ate of issue/Date of revision	: 10/03/2023 Date of previous issue : No previous validation Version : 1 12/1		

# **SECTION 14: Transport information**

For long distance transport of bulk material or shrunk pallet take into consideration sections 7 and 10.

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN3265	UN3265	UN1760	UN3265
14.2 UN proper shipping name	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S.(Benzalkonium Chloride; N,N-Bis (3-aminopropyl) dodecylamine)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S.(Benzalkonium Chloride; N,N-Bis (3-aminopropyl) dodecylamine)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N. O.S.(Benzalkonium Chloride; N,N-Bis (3-aminopropyl) dodecylamine)	CORROSIVE LIQUID, ACIDIC, ORGANIC, N O.S.(Benzalkonium Chloride; N,N-Bis (3-aminopropyl) dodecylamine)
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	No.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional informa	tion			
ADN	transported	t is only regulated as an l in tank vessels. ovisions 274	environmentally hazardo	us substance when
IMDG	<ul> <li>The marine pollutant mark is not required when transported in sizes of &lt;5 L or &lt;5</li> </ul>		in sizes of ≤5 L or ≤5 kg	
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.			
14.6 Special precau user	upright and	<b>is for</b> : <b>Transport within user's premises:</b> always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do the event of an accident or spillage.		
14.7 Maritime trans bulk according to I		n : Not available.		

instruments

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : None. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other EU regulations

# SECTION 15: Regulatory information

Ozone de	pleting	substances	(1005/2009/EU)
			· · · · · · · · · · · · · · · · · · ·

Not listed.

#### Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

**15.2 Chemical safety** 

: No Chemical Safety Assessment has been carried out.

#### assessment

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### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

: ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
1272/2008]
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number
vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Met. Corr. 1, H290	On basis of test data
Skin Corr. 1C, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Aquatic Chronic 3, H412	Calculation method

#### Full text of abbreviated H statements

H290	May be corrosive to metals.
H301	Toxic if swallowed.
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.
H373	May cause damage to organs through prolonged or repeated
	exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 - Ireland

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SECTION 16: Other information	
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Met. Corr. 1	CORROSIVE TO METALS - Category 1
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
	EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE -
	Category 3
Date of printing	: 10/03/2023
Date of issue/ Date of	: 10/03/2023
revision	
Date of previous issue	: No previous validation
Version	: 1
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#### Notice to reader

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.