

# PRODUCT SAFETY DATA SHEET



HEALTH • HYGIENE • HOME

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

### 1.1 Product identifier

Dettol Protect 24 Multi Surface Wipes Ocean Fresh  
Dettol Protect 24 Multipurpose Wipes Ocean Fresh

SDS number: D8390416 v2.0  
Code: FF3204430 v1.0

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

Surface Disinfection Wipes. Consumer use

### 1.3. Details of the Supplier of the Safety Data Sheet

#### The United Kingdom:

RB UK Commercial Ltd  
Wellcroft House  
Wellcroft Road  
Slough, Berkshire SL1 4AQ

#### The Republic Of Ireland:

RB Ireland Hygiene Home Commercial Ltd  
7 Riverwalk  
Citywest Business Campus  
Dublin 24  
Ireland

### 1.4 Emergency telephone number

**RB UK Contact Telephone:** 0333 2005 345 9 am - 5 pm weekdays

**RB ROI Contact Telephone:** 01 6305429 9 am - 5 pm weekdays

**RB email:** consumer.relations-hcukroi@rb.com

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

### Additional useful information

Reason of Revision : n/a

Revision date and number : 27/01/2022 v1

Supersedes : n/a

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

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

Aquatic Chronic 3, H412

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.

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

### 2.2 Label elements

**Signal word** : No signal word.

## SECTION 2: Hazards identification

<b>Hazard statements</b>	: Harmful to aquatic life with long lasting effects.
<b>Precautionary statements</b>	
<b>General</b>	: Keep out of reach of children. If medical advice is needed, have product container or label at hand.
<b>Prevention</b>	: Wash hands thoroughly after handling. Avoid release to the environment.
<b>Response</b>	: Not applicable.
<b>Storage</b>	: Not applicable.
<b>Disposal</b>	: Dispose of contents/container in accordance with local and national regulations.
<b>Supplemental label elements</b>	: <b>Ingredient Declaration:</b> Per 100g contains 0.194g Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides Per 100g contains 0.194g Didecyldimethylammonium chloride <5% Non-ionic surfactant <5% Cationic surfactant <5% Amphoteric surfactant Methylisothiazolinone, Benzisothiazolinone, Iodopropynyl butylcarbamate Disinfectant Parfum

### Special packaging requirements

<b>Containers to be fitted with child-resistant fastenings</b>	: Not applicable.
<b>Tactile warning of danger</b>	: Not applicable.

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
<b>Other hazards which do not result in classification</b>	: None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
DECYLAMINE OXIDE	REACH #: 01-2119959297-22 EC: 220-020-5 CAS: 2605-79-0	<1	Acute Tox. 4, H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411	[1]
BENZALKONIUM CHLORIDE	REACH #: 01-2119983287-23 EC: 270-325-2 CAS: 68424-85-1	≤0.3	Met. Corr. 1, H290 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=1)	[1]
DIDECYLDIMONIUM CHLORIDE	EC: 230-525-2 CAS: 7173-51-5 Index: 612-131-00-6	≤0.3	Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Irrit. 2, H319 Aquatic Acute 1, H400	[1]

## SECTION 3: Composition/information on ingredients

Amines, C12-14-alkyldimethyl, N-oxides	REACH #: 01-2119490061-47 CAS: 308062-28-4	≤0.3	(M=10) Aquatic Chronic 2, H411 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411 <b>See Section 16 for the full text of the H statements declared above.</b>	[1]
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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.

### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : 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. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

#### Over-exposure signs/symptoms

- Eye contact** : No specific data.
- Inhalation** : No specific data.

## SECTION 4: First aid measures

- Skin contact** : No specific data.  
**Ingestion** : No specific data.

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
**Specific treatments** : No specific treatment.

## 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 substance or mixture** : This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.  
**Hazardous combustion products** : No specific data.

### 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, protective 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 spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.  
**For emergency responders** : If specialized 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 spilled 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 materials for containment and cleaning up

- Small spill** : Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

## SECTION 6: Accidental release measures

- Large spill** : Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
- 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 ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. 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.
- 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. 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 unlabeled 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** : Surface Disinfection Wipes 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	Type	Exposure	Value	Population	Effects
DECYLAMINE OXIDE	DNEL	Long term Oral	0.44 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	1.53 mg/m <sup>3</sup>	General population	Systemic
	DNEL	Long term Dermal	5.5 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	6.2 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg bw/day	Workers	Systemic
BENZALKONIUM CHLORIDE	DNEL	Long term	1.64 mg/m <sup>3</sup>	General	Systemic

## SECTION 8: Exposure controls/personal protection

DIDECYLDIMONIUM CHLORIDE  Amines, C12-14-alkyldimethyl, N-oxides		Inhalation		population [Consumers]	
	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 Dermal	8.6 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	18.2 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	11 mg/kg	Workers	Systemic
	DNEL	Long term Inhalation	15.5 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.27 %	Workers	Local
	DNEL	Long term Dermal	5.5 mg/kg	General population [Consumers]	Systemic
	DNEL	Long term Inhalation	3.8 mg/m <sup>3</sup>	General population [Consumers]	Systemic
DNEL	Long term Oral	0.44 mg/kg	General population [Consumers]	Systemic	

### PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail	
BENZALKONIUM CHLORIDE  Amines, C12-14-alkyldimethyl, N-oxides	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	-	
	Fresh water	0.0335 mg/l	-	
	Marine water	0.00335 mg/l	-	
	Fresh water sediment	5.24 mg/kg	-	
	Marine water sediment	0.524 mg/kg	-	
	Soil	1.02 mg/kg	-	
	Sewage Treatment Plant	24 mg/kg	-	

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

**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: safety glasses with side-shields.

#### Skin protection

## SECTION 8: Exposure controls/personal protection

- Hand protection** : 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.
- 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.
- 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 the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important 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 process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

- Physical state** : Solid. [Wipes impregnated with liquid]
- Color** : White.
- Odor** : Fragrant.
- Odor threshold** : Not determined
- pH** : 3.6 to 4.4(Liquid concentrate)
- Melting point/freezing point** : Not determined
- Initial boiling point and boiling range** : Not determined
- Flash point** : Not determined
- Evaporation rate** : Not determined
- Flammability (solid, gas)** : Not determined
- Upper/lower flammability or explosive limits** : Not determined
- Vapor pressure** : Not determined
- Vapor density** : Not determined
- Relative density** : 0.99 to 1.01 (Liquid concentrate)

## SECTION 9: Physical and chemical properties

<b>Solubility(ies)</b>	: Easily soluble in the following materials: cold water and hot water. (Liquid concentrate)
<b>Partition coefficient: n-octanol/water</b>	: Not determined
<b>Decomposition temperature</b>	: Not determined
<b>Viscosity</b>	: Not determined.
<b>Explosive properties</b>	: Not determined
<b>Oxidizing properties</b>	: Not determined

### 9.2 Other information

**Auto-ignition temperature** : Not available.

## SECTION 10: Stability and reactivity

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

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
DECYLAMINE OXIDE	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
BENZALKONIUM CHLORIDE	LD50 Oral	Rat - Female	>300 mg/kg	-
	LD50 Dermal	Rabbit	2848 mg/kg	-
	LD50 Dermal	Rabbit	3413 mg/kg	-
DIDECYLDIMONIUM CHLORIDE Amines, C12-14-alkyldimethyl, N- oxides	LD50 Oral	Rat	344 mg/kg	-
	LD50 Oral	Rat	398 mg/kg	-
	LD50 Oral	Rat	84 mg/kg	-
	LD50 Oral	Rat	1064 mg/kg	-

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

#### Acute toxicity estimates



## SECTION 11: Toxicological information

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Sagrotan/Lysol/Pine O' Cleen Protect24 Disinfecting Wipes 3200394_FF3204430 (D8390416) EU	28455.3	N/A	N/A	N/A	N/A
N,N-dimethyldecylamine N-oxide	500	N/A	N/A	N/A	N/A
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	344	2848	N/A	N/A	N/A
didecyldimethylammonium chloride	84	N/A	N/A	N/A	N/A
Amines, C12-14-alkyldimethyl, N-oxides	1064	N/A	N/A	N/A	N/A

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
BENZALKONIUM CHLORIDE	Skin - Severe irritant	Rabbit	-	25 mg	-
DIDECYLDIMONIUM CHLORIDE	Skin - Severe irritant	Rabbit	-	500 mg	-

### Conclusion/Summary

- Skin** : Based on available data, the classification criteria are not met.  
**Eyes** : Based on available data, the classification criteria are not met.  
**Respiratory** : Based on available data, the classification criteria are not met.

### Sensitization

Product/ingredient name	Route of exposure	Species	Result
BENZALKONIUM CHLORIDE	skin	Guinea pig	Not sensitizing

### Conclusion/Summary

- Skin** : Based on available data, the classification criteria are not met.  
**Respiratory** : Based on available data, the classification criteria are not met.

### Mutagenicity

Product/ingredient name	Test	Experiment	Result
BENZALKONIUM CHLORIDE	OECD 471 - Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 473 - Mammalian Chromosomal Aberration Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
	OECD 476 - Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative

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

### Carcinogenicity

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

### Reproductive toxicity

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

### Teratogenicity

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

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

## SECTION 11: Toxicological information

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : No known significant effects or critical hazards.  
**Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : No specific data.  
**Inhalation** : No specific data.  
**Skin contact** : No specific data.  
**Ingestion** : No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.  
**Potential delayed effects** : Not available.

### Potential chronic health effects

**Conclusion/Summary** : Based on available data, the classification criteria are not met.  
**General** : No known significant effects or critical hazards.  
**Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Reproductive toxicity** : No known significant effects or critical hazards.

**Other information** : Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
DECYLAMINE OXIDE	Acute EC50 0.16 mg/l	Algae	72 hours
	Acute EC50 3.43 mg/l	Daphnia	48 hours
	Acute LC50 31.8 mg/l Fresh water	Fish	96 hours
	Chronic NOEC 0.067 mg/l	Algae	28 days
	Acute EC50 0.016 mg/l	Daphnia	48 hours
BENZALKONIUM CHLORIDE	Acute LC50 64 ppb Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
	Chronic EC10 0.009 mg/l	Algae	72 hours
DIDECYLDIMONIUM CHLORIDE	Acute EC50 0.062 mg/l Fresh water	Algae	72 hours
	Acute EC50 0.029 mg/l Fresh water	Daphnia	48 hours
Amines,	Acute LC50 0.49 mg/l Fresh water	Fish	96 hours
	Chronic EC10 0.02 mg/l Fresh water	Algae	72 hours
	Chronic NOEC 0.013 mg/l Fresh water	Algae	72 hours
	Chronic NOEC 0.021 mg/l Fresh water	Daphnia	21 days
	Acute EC50 3.1 mg/l	Daphnia	48 hours

## SECTION 12: Ecological information

C12-14-alkyldimethyl, N-oxides	Acute IC50 0.143 mg/l Acute LC50 2.67 mg/l Acute NOEC 0.067 mg/l	Algae Fish Algae	48 hours 48 hours -
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**Conclusion/Summary** : Based on Calculation Method: Harmful to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
DECYLAMINE OXIDE	-	97 % - Readily - 28 days	-	-
DIDECYLDIMONIUM CHLORIDE	OECD 301 B 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	66.2 % - Readily - 28 days	-	-

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

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
DECYLAMINE OXIDE	-	-	Readily
BENZALKONIUM CHLORIDE	-	-	Readily
DIDECYLDIMONIUM CHLORIDE	-	-	Readily
Amines, C12-14-alkyldimethyl, N-oxides	-	-	Readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
Amines, C12-14-alkyldimethyl, N-oxides	0.95	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**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 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**

## SECTION 13: Disposal considerations

- Methods of disposal** : The generation of waste should be avoided or minimized 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** : The classification of the product may meet the criteria for a hazardous waste.
- Packaging**
- Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

## 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	IATA
<b>14.1 UN number</b>	Not regulated.	Not regulated.	Not regulated.	Not regulated.
<b>14.2 UN proper shipping name</b>	-	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-	-
<b>14.4 Packing group</b>	-	-	-	-
<b>14.5 Environmental hazards</b>	No.	No.	No.	No.

**14.6 Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

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

[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorization](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

None of the components are listed.

## SECTION 15: Regulatory information

**Annex XVII - Restrictions** : None  
on the manufacture,  
placing on the market and  
use of certain dangerous  
substances, mixtures and  
articles

### Other EU regulations

#### Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

#### Seveso Directive

This product is not controlled under the Seveso Directive.

**15.2 Chemical Safety Assessment** : No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : 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
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### Full text of classifications [CLP/GHS]

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - 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. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2

## SECTION 16: Other information

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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.

This document complements the technical usage instructions but does not replace them. The information contained herein is based on our best current knowledge of the product concerned, and is given in good faith. The attention of recipients is drawn to (amongst other things) the element of risk consequent to use of the product other than that for which it was intended.

In no way does this document remove the need of the recipient of the product to fully understand and apply statutory requirements. It is the recipient's sole responsibility to take due precautions relative to the use made of the product. All information contained herein is only to assist the recipient in fulfilling their statutory duty connected with the use of hazardous materials.

This Document may be entitled Product Safety Data Sheet as required by REACH (Registration, Evaluation, Authorisation and restriction of Chemicals) Annex II OR Product Data Information Sheet where a product is not required to be supported by a full REACH compliant SDS (e.g. not classified as hazardous or out of scope, such as cosmetics).

Changes from the previous version are given in Section 1.

This list of information must not be considered as exhaustive, and does not exonerate the recipient from taking other precautions described in documents other than those mentioned, concerning the storage and use of the product, for which they remain the sole person responsible.