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**Conforms to EU Regulation 1907/2006/EC as amended.**

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

**1.1 Product identifier**

Trade name : SPARKLE IT CUBE

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

Use of the Substance/Mixture : Swimming Pool Sanitizer

<p><b>1.3 Details of the supplier of the safety data sheet</b>          Innovative Water Care SA Holding (Pty) Ltd          NCP Factory Site, 9 Hytor Street, Chloorkop          1624 Kempton Park          South Africa</p> <p><b>E-mail address of person responsible for the SDS:</b>          EHSProductSafetyTeam@solenis.com</p> <p><b>Product Information</b>          Contact your local Solenis representative</p>	<p><b>1.4 Emergency telephone number</b>          Europe: NCEC +44 (0)1235 239 670, Africa, and Middle East: NCEC +44 (0)1235 239 671 , or contact your local emergency telephone number at 112</p>
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**SECTION 2: Hazards identification**


**2.1 Classification of the substance or mixture**

**Classification (REGULATION (EC) No 1272/2008)**

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Long-term (chronic) aquatic hazard, Category 3	H412: Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

**Classification (REGULATION (EC) No 1272/2008)**

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Hazard pictograms :



Signal word :

Warning

Hazard statements :

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements :

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.

**Prevention:**

P264 Wash skin thoroughly after handling.

**Response:**

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.


Material can create slippery conditions.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND N- METHYLMETHANAMINE	42751-79-1	Aquatic Chronic 3; H412	>= 15 - < 25
Quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl, chlorides	68424-85-1 939-253-5 01-2119965180-41- xxxx	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10	>= 1 - < 2,5

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		M-Factor (Chronic aquatic toxicity): 1	
didecyldimethylammonium chloride	7173-51-5 230-525-2	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 <u>Aquatic Chronic 2; H411</u>  M-Factor (Acute aquatic toxicity): 10	>= 1 - < 2,5
Substances with a workplace exposure limit :			
STARCH	9005-25-8 232-679-6		>= 2,5 - < 5

For explanation of abbreviations see section 16.


## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : If breathed in, move person into fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.  
If on skin, rinse well with water.  
Wash contaminated clothing before re-use.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.

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

- Symptoms : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)
- Risks : Causes skin irritation.  
Causes serious eye irritation.

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

Treatment : No hazards which require special first aid measures.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.  
 Do not allow run-off from fire fighting to enter drains or water courses.


Hazardous combustion products : Ammonia  
 Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)  
 nitrogen oxides (NO<sub>x</sub>)  
 Hydrocarbons  
 Alcohols  
 ethers  
 Ketones  
 Nitrogen oxides (NO<sub>x</sub>)  
 toxic fumes

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Material can create slippery conditions.  
 Water may cause extremely slippery conditions.  
 Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Material can create slippery conditions.  
 Use personal protective equipment.  
 Avoid dust formation.  
 Avoid breathing dust.  
 Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
 Comply with all applicable federal, state, and local regulations.

### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
 Prevent further leakage or spillage if safe to do so.  
 If the product contaminates rivers and lakes or drains inform respective authorities.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : For small spills, quickly contain and remove the spilled material using absorbent pads, socks, kitty litter, sawdust etc, then appropriately dispose. Do not leave absorbents to sit overnight, as they will become hard and difficult to remove.  
 The remaining residue or film can be treated with dilute caustic (2%) or dilute liquid bleach (2–5%), allowed to soak for up to one hour, and clean with warm water (between 49C – 54C (120F – 130 F)) or flushed to a sewer using high volumes of water taking into account local guidelines.  
 Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections


For further information see Section 8 and Section 13 of the safety data sheet.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid spillage on floor as the product can become very slippery.  
 Avoid dust formation.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Container hazardous when empty.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.

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Advice on protection against fire and explosion : Avoid dust formation. Take measures to prevent the build up of electrostatic charge. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : Avoid breathing dust. Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : No data available

## SECTION 8: Exposure controls/personal protection


### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
STARCH	9005-25-8	OEL-RL	10 mg/m <sup>3</sup>	ZA OEL
Further information: Occupational Exposure Limits - Restricted Limits For Hazardous Chemical Agents				

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
POLYETHYLENE GLYCOL	Workers	Inhalation	Long-term systemic effects	5,096556 mg/m <sup>3</sup>
Remarks:	Repeated dose toxicity			
	Workers	Dermal	Long-term systemic effects	4,470663 mg/kg
Remarks:	Repeated dose toxicity			
	General population	Inhalation	Long-term systemic effects	1,2678 mg/m <sup>3</sup>
Remarks:	Repeated dose toxicity			
	General population	Dermal	Long-term systemic effects	1,102435 mg/kg
Remarks:	Repeated dose toxicity			
	General	Oral	Long-term systemic	2,20487

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	population		effects	mg/kg
Remarks:	Repeated dose toxicity			
didecyldimethylammonium chloride	Workers	Inhalation	Long-term systemic effects	18,2 mg/m <sup>3</sup>
Remarks:	Repeated dose toxicity			
	Workers	Dermal	Long-term systemic effects	8,6 mg/kg
Remarks:	Repeated dose toxicity			

## 8.2 Exposure controls

### Engineering measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Provide appropriate exhaust ventilation at places where dust is formed.

### Personal protective equipment

Eye protection : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Wear as appropriate:  
 Safety shoes  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Wear resistant gloves (consult your safety equipment supplier).  
 Discard gloves that show tears, pinholes, or signs of wear.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : gel


Colour : white

Odour : No data available

Odour Threshold : No data available

pH : 5 - 7  
 Concentration: 1 %

Melting point/freezing point : No data available

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Boiling point/boiling range	:	100 °C
Flash point	:	> 93 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1,1 - 1,2 g/ml
Solubility(ies)		
Water solubility	:	soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available

## 9.2 Other information

Self-ignition	:	No data available
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## SECTION 10: Stability and reactivity


### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under recommended storage conditions.



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### 10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

### 10.4 Conditions to avoid

Conditions to avoid : Keep away from heat, flame, sparks and other ignition sources.  
Freezing temperatures.  
Protect from frost.  
Heat, flames and sparks.

Keep away from heat, flame, sparks and other ignition sources.

### 10.5 Incompatible materials

Materials to avoid : aluminum  
Copper  
Iron  
Reducing agents  
Strong acids  
Strong bases  
Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products : Ammonia  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Alcohols  
ethers  
Hydrocarbons  
Ketones

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Not classified based on available information.

#### Components:


#### **DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND N-METHYLMETHANAMINE:**

Acute oral toxicity : LD50 (Rat): 6.160 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 10.000 mg/kg

#### **Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Acute oral toxicity : LD50 (Rat): 358 mg/kg

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**didecyldimethylammonium chloride:**

Acute oral toxicity : LD50 (Rat): 329 mg/kg  
 Method: OECD Test Guideline 401  
 GLP: yes

Acute dermal toxicity : LD50 (Rabbit): 3.342 mg/kg

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

**Components:**

**DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND N-METHYLMETHANAMINE:**

Result : Possibly irritating to skin

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Species : Rabbit  
 Result : Causes burns.

**didecyldimethylammonium chloride:**

Method : OECD Test Guideline 404  
 Result : Corrosive to skin  
 GLP : yes

**STARCH:**

Result : Not irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**


Remarks : Product dust may be irritating to eyes, skin and respiratory system.  
 Causes serious eye irritation.

**Components:**

**DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND N-METHYLMETHANAMINE:**

Result : Possibly irritating to eyes

Remarks : Unlikely to cause eye irritation or injury.  
 Product dust may be irritating to eyes, skin and respiratory system.

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**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Result : Corrosive to eyes

**didecyldimethylammonium chloride:**

Result : Corrosive to eyes

**STARCH:**

Result : Not irritating to eyes

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**

**didecyldimethylammonium chloride:**

Test Type : Buehler Test  
 Species : Guinea pig  
 Method : OECD Test Guideline 406

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**didecyldimethylammonium chloride:**

Genotoxicity in vitro : Test Type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

Test Type: Chromosome aberration test in vitro  
 Result: negative

**Carcinogenicity**


Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

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**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information**

**Product:**

Remarks : No data available

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Components:**

**DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND N-METHYLMETHANAMINE:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10 - 100 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203  
 Remarks: In natural waters, aquatic toxicity is markedly reduced, due to neutralisation of cationic charge by adsorption to particles, hydrolysis and dissolved organic carbon.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10 - 100 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202  
 Remarks: Information given is based on data obtained from similar substances.


Toxicity to algae/aquatic plants : IC50 (Pseudokirchneriella subcapitata (green algae)): > 10 - 100 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201  
 Remarks: Information given is based on data obtained from similar substances.

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 0,860 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

LC50 (Oncorhynchus mykiss (rainbow trout)): 0,923 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,016 mg/l  
 Exposure time: 48 h  
 Test Type: static test

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Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (algae)): 0,049 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,00415 mg/l  
 End point: Reproduction Test  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Analytical monitoring: yes  
 GLP: yes

M-Factor (Chronic aquatic toxicity) : 1

**didecyldimethylammonium chloride:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,2 - 0,5 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test


LC50 (Oncorhynchus mykiss (rainbow trout)): 0,328 - 0,511 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

LC50 (Danio rerio (zebra fish)): 0,97 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203  
 GLP: yes

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 0,057 mg/l  
 Exposure time: 48 h  
 Test Type: static test  
 Method: OECD Test Guideline 202  
 GLP: yes

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0,062 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 GLP: yes

M-Factor (Acute aquatic toxicity) : 10

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toxicity)

Toxicity to microorganisms : EC10 (Pseudomonas putida): 0,13 mg/l  
 Exposure time: 16 h  
 Test Type: Growth inhibition  
 Method: DIN 38412

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,021 mg/l  
 Exposure time: 21 d  
 Species: Daphnia magna (Water flea)  
 Test Type: semi-static test  
 Method: OECD Test Guideline 211  
 GLP: yes

## 12.2 Persistence and degradability

### Components:

#### **DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND N-METHYLMETHANAMINE:**

Biodegradability : Result: Not readily biodegradable.  
 Biodegradation: < 70 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B  
 Remarks: Information given is based on data obtained from similar substances.

#### **Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**


Biodegradability : Result: Readily biodegradable.

#### **didecyldimethylammonium chloride:**

Biodegradability : Test Type: aerobic  
 Result: Readily biodegradable.  
 Biodegradation: 69 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301D  
 GLP: yes

Biodegradation: 72 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301B

Biodegradation: 87 - 94 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 302B  
 Remarks: This surfactant complies with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

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### 12.3 Bioaccumulative potential

**Product:**

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

**Components:**

**Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides:**

Bioaccumulation : Species: Bluegill (*Lepomis macrochirus*)  
 Exposure time: 60 d  
 Concentration: 0,25 mg/l  
 Bioconcentration factor (BCF): 80,4  
 Method: Flow through

Species: Bluegill (*Lepomis macrochirus*)  
 Exposure time: 60 d  
 Concentration: 0,25 mg/l  
 Bioconcentration factor (BCF): 33,3  
 Method: Flow through

**didecyldimethylammonium chloride:**

Bioaccumulation : Species: *Lepomis macrochirus* (Bluegill sunfish)  
 Exposure time: 46 d  
 Bioconcentration factor (BCF): 81,00

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

### 12.6 Other adverse effects


**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
 Toxic to aquatic life.  
 Harmful to aquatic life with long lasting effects.

**Components:**

**DIMETHYLAMINE, POLYMER WITH EPICHLOROHYDRIN AND N-METHYLMETHANAMINE:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : The product should not be allowed to enter drains, water courses or the soil.  
 Do not contaminate ponds, waterways or ditches with chemical or used container.  
 Send to a licensed waste management company.
- Dispose of in accordance with local regulations.
- Contaminated packaging : Empty remaining contents.  
 Dispose of as unused product.  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Do not re-use empty containers.

---

## SECTION 14: Transport information

### 14.1 UN number or ID number

**ADR:** UN3082

**ADN:** UN3082

**RID:** UN3082

**IMDG-Code:** UN3082

**IATA-DGR:** UN3082

### 14.2 UN proper shipping name

**ADR:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYAMINE SOLUTION)

**ADN:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYAMINE SOLUTION)

**RID:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYAMINE SOLUTION)

**IMDG-Code:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (POLYAMINE SOLUTION)

**IATA-DGR:** Environmentally hazardous substance, liquid, n.o.s. (POLYAMINE SOLUTION)

### 14.3 Transport hazard class(es)


**ADR:** 9

**ADN:** 9

**RID:** 9

**IMDG-Code:** 9



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**IATA-DGR:** 9

#### 14.4 Packing group

**ADR:** III

**ADN:** III

**RID:** III

**IMDG-Code:** III

**IATA-DGR:** III

#### 14.5 Environmental hazards

**ADR:** Not applicable

**ADN:** Not applicable

**RID:** Not applicable

**IMDG-Code:** Marine pollutant

**IATA-DGR:** Environmentally hazardous

#### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

#### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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## SECTION 15: Regulatory information

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


REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic : Not applicable

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pollutants (recast)

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : didecyldimethylammonium chloride

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

**The components of this product are reported in the following inventories:**

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : All substances listed as active on the TSCA inventory
- AIIC : On the inventory, or in compliance with the inventory
- DSL : All components of this product are on the Canadian DSL
- ENCS : On the inventory, or in compliance with the inventory
- KECI : On the inventory, or in compliance with the inventory
- PICCS : On the inventory, or in compliance with the inventory
- IECSC : On the inventory, or in compliance with the inventory

**15.2 Chemical safety assessment**

No data available

**SECTION 16: Other information**

**Further information**

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**Classification of the mixture:**


Skin Irrit. 2 H315  
 Eye Irrit. 2 H319  
 Aquatic Chronic 3 H412

**Classification procedure:**

Calculation method  
 Calculation method  
 Calculation method

**Full text of H-Statements**

- H302 : Harmful if swallowed.
- H314 : Causes severe skin burns and eye damage.
- H318 : Causes serious eye damage.
- H400 : Very toxic to aquatic life.
- H410 : Very toxic to aquatic life with long lasting effects.

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- H411 : Toxic to aquatic life with long lasting effects.  
H412 : Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

- Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
Skin Corr. : Skin corrosion  
ZA OEL : South Africa. The Regulations for Hazardous Chemical Agents, Occupational Exposure Limits  
ZA OEL / OEL-RL : Occupational Exposure Limit Restricted limit - 8- hour exposure or equivalent (12 hour shifts)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet  
Key literature references and sources of data  
SOLENIS Internal data

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SOLENIS internal data including own and sponsored test reports  
 The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

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