		Page: 1
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

**SECTION 1. IDENTIFICATION**

**Product identifier**

Trade name : POOLIFE EXCLUSIVE POOL CARE COLLECTION  
ALGAECIDE 90

**Recommended use of the chemical and restrictions on use**

Use of the Substance/Mixture : Pesticide


<p><b>Details of the supplier of the safety data sheet</b>          Innovative Water Care, LLC          1400 Bluegrass Lakes Parkway          Alpharetta, GA 30004          United States of America (USA)           EHSProductSafetyTeam@solenis.com</p>	<p><b>Emergency telephone number</b>          1-800-654-6911 (Outside the USA:1-423-780-2970)</p> <p><b>Product Information</b>          1-800-511-6737 (Outside the USA:1-423-780-2347)</p>
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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Skin irritation : Category 2  
 Eye irritation : Category 2A


**GHS label elements**

Hazard pictograms : 

Signal word : Warning

Hazard statements : H315 Causes skin irritation.  
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
 P264 Wash skin thoroughly after handling.  
 P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**

 <b>SOLENIS</b> Strong bonds. Trusted solutions.		Page: 2
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P337 + P313 If eye irritation persists: Get medical advice/attention.  
P362 Take off contaminated clothing and wash before reuse.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Classification	Concentration (%)
TRIETHANOLAMINE	102-71-6	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>= 1.5 - < 5
MONOETHANOLAMINE	141-43-5	Flam. Liq. 4; H227 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 1.5 - < 5


Actual concentration is withheld as a trade secret

**SECTION 4. 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.

		Page: 3
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0


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.
- Most important symptoms and effects, both acute and delayed : Causes skin irritation.  
Causes serious eye irritation.  
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)  
Shortness of breath  
lung edema (fluid buildup in the lung tissue)  
This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity when deciding whether to induce vomiting.
- Notes to physician : No hazards which require special first aid measures.

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## SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water spray  
Foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
nitrogen oxides (NO<sub>x</sub>)  
Ammonia
- Specific extinguishing methods : Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

		Page: 4
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

for firefighters

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. 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.
- 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.
- Methods and materials for containment and cleaning up : Keep in suitable, closed containers for disposal.

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## SECTION 7. HANDLING AND STORAGE


- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : 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.
- Conditions for safe storage : 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.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible	Basis

		Page: 5
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

			concentration	
TRIETHANOLAMINE	102-71-6	TWA	5 mg/m3	ACGIH
MONOETHANOLAMINE	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m3	NIOSH REL
		ST	6 ppm 15 mg/m3	NIOSH REL
		TWA	3 ppm 6 mg/m3	OSHA Z-1
		TWA	3 ppm 8 mg/m3	OSHA P0
		STEL	6 ppm 15 mg/m3	OSHA P0

**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.

**Personal protective equipment**

Hand protection

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

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


Skin and body protection : Wear as appropriate:  
 Impervious clothing  
 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.

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

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**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : viscous

		Page: 6
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

Colour : blue

Odour : slight

Odour Threshold : No data available

pH : 9.5 - 10.0

Melting point/freezing point : No data available

Boiling point/boiling range : No data available

Flash point : Not applicable

Evaporation rate : < 1.0

Flammability (solid, gas) : No data available

Self-ignition : 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 : 1.0 - 1.2

Density : No data available

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

		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

Oxidizing properties : No data available

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## SECTION 10. STABILITY AND REACTIVITY


- Reactivity : No decomposition if stored and applied as directed.
- Chemical stability : Stable under recommended storage conditions.
- Possibility of hazardous reactions : Product will not undergo hazardous polymerization.
- Conditions to avoid : This product should not be heated above 140 degrees F (60 degrees C) in the presence of aluminum due to excessive corrosion and potential chemical reaction releasing flammable hydrogen gas.  
 excessive heat  
 Heat, flames and sparks.  
 Exposure to air.  
 Exposure to moisture  
 Exposure to light.
- Incompatible materials : Acids  
 Aldehydes  
 aluminum  
 Copper  
 Copper alloys  
 galvanized metals  
 halogenated hydrocarbons  
 Iron  
 Ketones  
 Metals  
 nitrites  
 organic anhydrides  
 organic halides  
 organic solvent  
 strong alkalis  
 Strong oxidizing agents  
 Zinc
- Hazardous decomposition products : Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)  
 Nitrogen oxides (NO<sub>x</sub>)  
 Ammonia

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

	Page: 8
<b>SAFETY DATA SHEET</b>	Revision Date: 10/18/2022
	Print Date: 07/10/2024
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066	SDS Number: R1600200 Version: 1.0

**Components:**

**TRIETHANOLAMINE:**

Acute oral toxicity : LD50 (Rat): 6,400 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
Method: OECD Test Guideline 402

**MONOETHANOLAMINE:**

Acute oral toxicity : LD50 (Rat): 1,515 mg/kg

Acute inhalation toxicity : LC0 (Rat): ca. 1.3 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : LD50 (Rabbit, male): 2,504 mg/kg  
Method: OECD Test Guideline 402

LD50 (Rabbit, female): 2,881 mg/kg  
Method: OECD Test Guideline 402

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks : May cause skin irritation and/or dermatitis.

**Components:**

**TRIETHANOLAMINE:**

Result : Mildly irritating to skin

**MONOETHANOLAMINE:**

Species : Rabbit  
Exposure time : 4 h  
Method : OECD Test Guideline 404  
Result : Corrosive to skin

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.  
Causes serious eye irritation.



**SAFETY DATA SHEET**

Revision Date: 10/18/2022

Print Date: 07/10/2024

SDS Number: R1600200

Version: 1.0

 POOLIFE EXCLUSIVE POOL CARE COLLECTION  
 ALGAECIDE 90

217066

**Components:**
**TRIETHANOLAMINE:**

Result : Not irritating to eyes

**MONOETHANOLAMINE:**

Species : Rabbit

Result : Corrosive to eyes

**Respiratory or skin sensitisation**
**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:**
**TRIETHANOLAMINE:**

Test Type : Maximisation Test

Result : Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

Not classified based on available information.


**Components:**
**MONOETHANOLAMINE:**

 Genotoxicity in vitro : Test system: rat hepatocytes  
 Method: OECD Test Guideline 473 (In vitro Mammalian  
 Chromosome Aberration Test)  
 Result: negative

 Test Type: Ames test  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 471  
 Result: negative

 Test system: mouse lymphoma cells  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative

 Genotoxicity in vivo : Test Type: In vivo micronucleus test  
 Species: Mouse  
 Method: OECD Test Guideline 474  
 Result: negative  
 GLP: yes

		Page: 10
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

**Carcinogenicity**

Not classified based on available information.

**IARC** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

**NTP** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**Components:**

**MONOETHANOLAMINE:**

Exposure routes : Inhalation  
 Target Organs : Respiratory Tract  
 Assessment : May cause respiratory irritation.

**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**

**Ecotoxicity**

**Product:**

**Ecotoxicology Assessment**


Acute aquatic toxicity : Acute aquatic toxicity Category 3; Harmful to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

**Components:**

**TRIETHANOLAMINE:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 11,800 mg/l

		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

Exposure time: 96 h  
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Water flea (*Ceriodaphnia dubia*)): 609.88 mg/l  
 Exposure time: 48 h  
 Test Type: static test

EC50 (*Daphnia magna* (Water flea)): 2,038 mg/l  
 Exposure time: 24 h  
 Test Type: static test

Toxicity to algae/aquatic plants : EC50 (*Desmodesmus subspicatus* (green algae)): 216 - 512 mg/l  
 Exposure time: 72 h  
 Test Type: Growth inhibition

**MONOETHANOLAMINE:**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 114 - 196 mg/l  
 Exposure time: 96 h  
 Test Type: static test

LC50 (*Cyprinus carpio* (Carp)): 349 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 65 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to algae/aquatic plants : EC50 (*Pseudokirchneriella subcapitata* (green algae)): 2.5 mg/l  
 Exposure time: 72 h  
 Test Type: Growth inhibition  
 Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (*Oryzias latipes* (Orange-red killifish)): 1.24 mg/l  
 Exposure time: 41 d


Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (*Daphnia magna* (Water flea)): 0.85 mg/l  
 Exposure time: 21 d  
 Method: OECD Test Guideline 211

**Persistence and degradability**

**Components:**

**TRIETHANOLAMINE:**

Biodegradability : Result: Readily biodegradable.  
 Biodegradation: 97 %  
 Exposure time: 28 d

		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

**MONOETHANOLAMINE:**

Biodegradability : Result: Readily biodegradable.  
 Biodegradation: > 70 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F

**Bioaccumulative potential**

**Components:**

**TRIETHANOLAMINE:**

Partition coefficient: n-octanol/water : log Pow: -1.00

**MONOETHANOLAMINE:**

Partition coefficient: n-octanol/water : log Pow: -1.91 (73 °F / 23 °C)  
 pH: 7.3  
 Method: OECD Test Guideline 107

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**


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

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Disposal methods**

Waste from residues : 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 all applicable local, state and federal 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.

		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

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## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

#### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### 49 CFR

Not regulated as a dangerous good

### 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.

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## SECTION 15. REGULATORY INFORMATION

### EPCRA - Emergency Planning and Community Right-to-Know Act

#### CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

**SARA 311/312 Hazards** : Skin corrosion or irritation  
 Serious eye damage or eye irritation

**SARA 313** : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.


### US State Regulations

#### Massachusetts Right To Know

TRIETHANOLAMINE	102-71-6
2-aminoethanol	141-43-5

#### Pennsylvania Right To Know

WATER	7732-18-5
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		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 10/18/2022
		Print Date: 07/10/2024
		SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066		Version: 1.0

TRIETHANOLAMINE	102-71-6
Copper triethanolamine complex	82027-59-6
Copper ethanolamine complex	14215-52-2
2-aminoethanol	141-43-5

**New Jersey Right To Know**

WATER	7732-18-5
TRIETHANOLAMINE	102-71-6
Copper triethanolamine complex	82027-59-6
Copper ethanolamine complex	14215-52-2
2-aminoethanol	141-43-5

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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

- TCSI : Not in compliance with the inventory
- TSCA : Exempt
- AIIC : Not in compliance with the inventory
- DSL : Exempt
- ENCS : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory

**TSCA list**

The following substance(s) is/are subject to a Significant New Use Rule:  
 Copper ethanolamine complex 14215-52-2

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:  
 Copper ethanolamine complex 14215-52-2

**Biocides**

EPA Reg. # 8959-5-1258

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

<b>SAFETY DATA SHEET</b>	Revision Date: 10/18/2022
	Print Date: 07/10/2024
	SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066	Version: 1.0

Caution., Harmful if swallowed or absorbed through the skin.

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## SECTION 16. OTHER INFORMATION

### Further information

Revision Date : 10/18/2022


### Full text of H-Statements

H227 : Combustible liquid.  
 H302 : Harmful if swallowed.  
 H314 : Causes severe skin burns and eye damage.  
 H318 : Causes serious eye damage.  
 H335 : May cause respiratory irritation.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
 Eye Dam. : Serious eye damage  
 Flam. Liq. : Flammable liquids  
 Skin Corr. : Skin corrosion  
 STOT SE : Specific target organ toxicity - single exposure  
 ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
 ACGIH / TWA : 8-hour, time-weighted average  
 ACGIH / STEL : Short-term exposure limit  
 NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek  
 NIOSH REL / ST : STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday  
 OSHA P0 / TWA : 8-hour time weighted average  
 OSHA P0 / STEL : Short-term exposure limit  
 OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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

	Page: 16
<b>SAFETY DATA SHEET</b>	Revision Date: 10/18/2022
	Print Date: 07/10/2024
	SDS Number: R1600200
POOLIFE EXCLUSIVE POOL CARE COLLECTION ALGAECIDE 90  217066	Version: 1.0

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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - 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

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.

US / EN