 Strong bonds. Trusted solutions.		Page: 1
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

SECTION 1. IDENTIFICATION

Product identifier

Trade name : POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Pesticide

<p>Details of the supplier of the safety data sheet Innovative Water Care, LLC 1400 Bluegrass Lakes Parkway Alpharetta, GA 30004 United States of America (USA) EHSProductSafetyTeam@solenis.com</p>	<p>Emergency telephone number 1-800-654-6911 (Outside the USA:1-423-780-2970)</p> <p>Product Information 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
- Serious eye damage : Category 1
- Respiratory sensitisation : Category 1
- Skin sensitisation : Category 1
- Specific target organ toxicity - single exposure : Category 3 (Respiratory system)

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.

		Page: 2
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

H318 Causes serious eye damage.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335 May cause respiratory irritation.

Precautionary statements :

Prevention:

P261 Avoid breathing dust.
 P264 Wash skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/ eye protection/ face protection.
 P285 In case of inadequate ventilation wear respiratory protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
 P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
 P362 Take off contaminated clothing and wash before reuse.
 P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P405 Store locked up.

Disposal:

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

Other hazards


Material can create slippery conditions.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (%)
POTASSIUM	10058-23-8	Ox. Sol. 1; H271	>= 30 - < 40


 SOLENIS Strong bonds. Trusted solutions.		Page: 3
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

PEROXYMONOSULFATE		Skin Corr. 1B; H314 Eye Dam. 1; H318	
SULFURIC ACID MONOPOTASSIUM	7646-93-7	Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 15 - < 20
SODIUM DICHLOROISOCYANURATE ANHYDRIDE	2893-78-9	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 STOT SE 3; H335	>= 15 - < 20
Sodium carbonate	497-19-8	Eye Irrit. 2A; H319	>= 10 - < 15
POTASSIUM PERSULFATE	7727-21-1	Ox. Sol. 3; H272 Acute Tox. 4; H302 Resp. Sens. 1; H334 Skin Sens. 1B; H317	>= 1.5 - < 5
MAGNESIUM CARBONATE	546-93-0		>= 1 - < 1.5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES


- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
Call a physician or poison control centre immediately.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
- 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 : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.

		Page: 4
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

- If swallowed : Obtain medical attention.
Do NOT induce vomiting.
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 : 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)
Nose bleeding
Cough
Shortness of breath
hole formation in the nasal septum
lung edema (fluid buildup in the lung tissue)
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye damage.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.
- Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

- 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
- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : sulfur oxides
Chlorine
Phosgene
nitrogen oxides (NOx)
Carbon oxides
cyanide salts
Sodium oxides
Carbon monoxide
acid vapors
Nitrogen oxides (NOx)
Carbon dioxide (CO2)
metal oxides
- Specific extinguishing : Product is compatible with standard fire-fighting agents.

		Page: 5
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

methods

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.

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Material can create slippery conditions.
 Use personal protective equipment.
 Ensure adequate ventilation.
 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.


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 : 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.

SECTION 7. HANDLING AND STORAGE

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.

Advice on safe handling : Avoid spillage on floor as the product can become very slippery.
 Avoid dust formation.
 Provide sufficient air exchange and/or exhaust in work rooms.
 Do not breathe vapours/dust.
 Do not smoke.

		Page: 6
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

Container hazardous when empty.
 Avoid exposure - obtain special instructions before use.
 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.
 Observe label precautions.
 Electrical installations / working materials must comply with the technological safety standards.

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


SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
POTASSIUM PERSULFATE	7727-21-1	TWA	0.1 mg/m ³ (Persulphate)	ACGIH
MAGNESIUM CARBONATE	546-93-0	TWA (Respirable)	5 mg/m ³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m ³	OSHA Z-1
		TWA (respirable fraction)	5 mg/m ³	OSHA Z-1
		TWA (Total dust)	15 mg/m ³	OSHA P0
		TWA (respirable dust fraction)	5 mg/m ³	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.

Provide appropriate exhaust ventilation at places where dust

		Page: 7
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

is formed.

Personal protective equipment

- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.
Dust safety masks are recommended when the dust concentration is more than 10 mg/m3.

- 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 and face shield to protect eyes and skin from airborne dust.
Maintain eye wash station in immediate work area.

- Skin and body protection : Wear as appropriate:
Safety shoes
Dust impervious protective suit
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 : 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : granular

- Colour : white


- Odour : mild

- Odour Threshold : No data available

- pH : 7 - 7.5
Concentration: 1 %

- Melting point/freezing point : Not applicable


- Boiling point/boiling range : No data available

		Page: 8
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

- Flash point : No data available
- Evaporation rate : Not applicable
- Flammability (solid, gas) : Not combustible Dust
- 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 : 1.1 - 1.4
- Density : No data available
- Solubility(ies)
 - Water solubility : 250 g/l (68 °F / 20 °C)
 - 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 : The substance or mixture is not classified as oxidizing.

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.
NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1 Oxidizer.
- Conditions to avoid : heat
Heat

		Page: 9
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

Exposure to moisture

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

Incompatible materials : Acids
 aluminum
 Amines
 Ammonium salts
 Bases
 Combustible material
 Copper
 Copper alloys
 Fluorine
 formaldehyde-like
 halogens
 Iron
 Lead
 lead alloys
 lithium
 magnesium
 metallic mercury
 Organic materials
 oxidizable substances
 Powdered metals
 Reducing agents
 Strong oxidizing agents

Hazardous decomposition products : Sulphur oxides
 Chlorine
 Cyanides
 Nitrogen oxides (NOx)
 Phosgene
 Carbon oxides
 Sodium oxides
 Carbon monoxide
 toxic fumes
 Carbon dioxide (CO2)
 Metal oxides

SECTION 11. TOXICOLOGICAL INFORMATION


Acute toxicity

Not classified based on available information.

Components:

SULFURIC ACID MONOPOTASSIUM:

Acute inhalation toxicity : Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

		Page: 10
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

Acute oral toxicity : LD50 (Rat): 1,671 mg/kg
 Remarks: Information given is based on data obtained from similar substances.

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg
 Assessment: Not classified as acutely toxic by dermal absorption under GHS.
 Remarks: Information given is based on data obtained from similar substances.

Sodium carbonate:

Acute oral toxicity : LD50 (Rat): 2,800 mg/kg
 Acute inhalation toxicity : LC 50 (Rat): 2,300 mg/m3
 Exposure time: 2 h
 Test atmosphere: dust/mist

POTASSIUM PERSULFATE:

Acute oral toxicity : LD50 (Rat): 1,130 mg/kg
 Method: OECD Test Guideline 401
 Acute inhalation toxicity : LC 50 (Rat, male): > 42.9 mg/l
 Exposure time: 1 h
 Test atmosphere: dust/mist
 Remarks: Aerosol
 Acute dermal toxicity : LD50 (Rabbit): > 10 g/kg

MAGNESIUM CARBONATE:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
 Method: OECD Test Guideline 420
 Assessment: No adverse effect has been observed in acute oral toxicity tests.

Skin corrosion/irritation

Causes skin irritation.


Product:

Result : Skin irritation
 Remarks : May cause skin irritation and/or dermatitis.

Components:

POTASSIUM PEROXYMONOSULFATE:

Result : Causes burns.

	Page: 11
SAFETY DATA SHEET	Revision Date: 10/18/2022
	Print Date: 03/15/2024
	SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457	Version: 1.0

SULFURIC ACID MONOPOTASSIUM:

Result : Corrosive

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

Result : Corrosive to skin
 Remarks : Information given is based on data obtained from similar substances.

Sodium carbonate:

Result : Not irritating to skin

POTASSIUM PERSULFATE:

Species : Rabbit
 Result : Not irritating to skin

MAGNESIUM CARBONATE:

Result : Mildly irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks : May cause irreversible eye damage.

Components:

POTASSIUM PEROXYMONOSULFATE:

Result : Risk of serious damage to eyes.

SULFURIC ACID MONOPOTASSIUM:

Result : Corrosive to eyes

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

Result : Corrosive to eyes

Sodium carbonate:


Result : Severely irritating to eyes

POTASSIUM PERSULFATE:

Result : Slightly irritating to eyes

MAGNESIUM CARBONATE:

Result : Mildly irritating to eyes

	Page: 12
SAFETY DATA SHEET	Revision Date: 10/18/2022
	Print Date: 03/15/2024
	SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457	Version: 1.0

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product:

Remarks : May cause allergic skin reaction.

Components:

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

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

POTASSIUM PERSULFATE:

Germ cell mutagenicity

Not classified based on available information.

Components:

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects
 Genotoxicity in vivo : Test Type: chromosome aberration assay
 Species: Rat
 Cell type: Bone marrow
 Method: OECD Test Guideline 474
 Result: negative

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.

		Page: 13
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

Components:

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

Effects on fertility : Test Type: Three-generation study
 Species: Rat
 Application Route: Oral
 Dose: 475 milligram per kilogram
 Symptoms: No effects on reproduction parameters

Effects on foetal development : Species: Rabbit
 Application Route: Oral
 Dose: 500 milligram per kilogram
 Symptoms: No specific developmental abnormalities

STOT - single exposure

May cause respiratory irritation.

Components:

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

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 2; Toxic to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 2; Toxic to aquatic life with long lasting effects.

Components:

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.13 mg/l
 Exposure time: 96 h

	Page: 14
SAFETY DATA SHEET	Revision Date: 10/18/2022
	Print Date: 03/15/2024
	SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457	Version: 1.0

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.196 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Aquatic plants): 0.5 mg/l
Exposure time: 72 h

Ecotoxicology Assessment

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Sodium carbonate:

Toxicity to fish : LC50 (Bluegill (Lepomis macrochirus)): 300 mg/l
Exposure time: 96 h
Method: Static
Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 265 mg/l
Exposure time: 48 h
Method: Static
Remarks: Mortality

POTASSIUM PERSULFATE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 76.3 mg/l
Exposure time: 96 h
Test Type: static test
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 133 mg/l
Exposure time: 48 h
Test Type: static test

Persistence and degradability

Components:

SODIUM DICHLOROISOCYANURATE ANHYDRIDE:

Biodegradability : Result: Not readily biodegradable.

POTASSIUM PERSULFATE:


Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

No data available

Mobility in soil

No data available

	Page: 15
SAFETY DATA SHEET	Revision Date: 10/18/2022
	Print Date: 03/15/2024
	SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457	Version: 1.0

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 with long lasting effects.

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.

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.

		Page: 16
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

49CFR: Material is not regulated for ground transportation within the US if shipped in non-bulk packages. Material is not regulated as a marine pollutant for ground transportation within the US if shipped in non-bulk packages (reference 49CFR 171.4(c)).

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 : Respiratory or skin sensitization
 Serious eye damage or eye irritation
 Specific target organ toxicity (single or repeated exposure)
 Skin corrosion or 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

troclosene sodium	2893-78-9
dipotassium peroxodisulphate	7727-21-1
MAGNESIUM CARBONATE	546-93-0

Pennsylvania Right To Know


POTASSIUM PEROXYMONOSULFATE	10058-23-8
POTASSIUM SULFATE	7778-80-5
potassium hydrogensulphate	7646-93-7
troclosene sodium	2893-78-9
sodium carbonate	497-19-8
dipotassium peroxodisulphate	7727-21-1

New Jersey Right To Know

POTASSIUM PEROXYMONOSULFATE	10058-23-8
POTASSIUM SULFATE	7778-80-5
potassium hydrogensulphate	7646-93-7
troclosene sodium	2893-78-9
sodium carbonate	497-19-8
dipotassium peroxodisulphate	7727-21-1
MAGNESIUM CARBONATE	546-93-0

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.

		Page: 17
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

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

- TCSI : On the inventory, or in compliance with the inventory
- TSCA : Exempt
- AIIC : All components are listed on the inventory, regulatory obligations/restrictions apply
- DSL : Exempt
- 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

TSCA list

Exempt- This product is exempt from Significant New Use Rule requirements. See information under Biocides for product registration information.”

Exempt-This product is exempt from TSCA 12(b) requirements. See information under Biocides for product registration information.”

Biocides

EPA Reg. # 74849-1-1258

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:

Danger, Corrosive., Causes irreversible eye damage or skin burns., Harmful if swallowed or absorbed through the skin.


SECTION 16. OTHER INFORMATION

Further information

Revision Date : 10/18/2022

Full text of H-Statements

- H271 : May cause fire or explosion; strong oxidizer.
- H272 : May intensify fire; oxidizer.
- H302 : Harmful if swallowed.
- H314 : Causes severe skin burns and eye damage.


		Page: 18
SAFETY DATA SHEET		Revision Date: 10/18/2022
		Print Date: 03/15/2024
		SDS Number: R1600194
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457		Version: 1.0

- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H319 : Causes serious eye irritation.
- H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 : May cause respiratory irritation.

Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Eye Dam. : Serious eye damage
- Eye Irrit. : Eye irritation
- Ox. Sol. : Oxidizing solids
- Resp. Sens. : Respiratory sensitisation
- Skin Corr. : Skin corrosion
- Skin Sens. : Skin sensitisation
- 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
- NIOSH REL / TWA : Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
- OSHA P0 / TWA : 8-hour time weighted average
- 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 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

 <p>Strong bonds. Trusted solutions.</p>	Page: 19
SAFETY DATA SHEET	Revision Date: 10/18/2022
	Print Date: 03/15/2024
POOLIFE EXCLUSIVE POOL CARE COLLECTION NST PURIFY 228457	SDS Number: R1600194 Version: 1.0

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.

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