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## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : LEISURE TIME RENEW

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

Use of the Substance/Mixture : Pesticide

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

## SECTION 2. HAZARDS IDENTIFICATION

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

Skin corrosion : Category 1B

Serious eye damage : Category 1

Respiratory sensitisation : Category 1

Skin sensitisation : Category 1

Reproductive toxicity : Category 1B


### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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H360 May damage fertility or the unborn child.

Precautionary statements

:

**Prevention:**

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust.

P264 Wash skin thoroughly after handling.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P285 In case of inadequate ventilation wear respiratory protection.

**Response:**

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

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.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

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

**Storage:**

P405 Store locked up.

**Disposal:**

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

**Other hazards**

None known.

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

Substance / Mixture

:

Mixture

**Components**


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Chemical name	CAS-No.	Classification	Concentration (%)
POTASSIUM PEROXYMONOSULFATE	10058-23-8	Ox. Sol. 1; H271 Skin Corr. 1B; H314 Eye Dam. 1; H318	$\geq 30 - < 40$
BORATES, TETRA SODIUM SALTS, PENTAHYDRATE	12179-04-3	Repr. 1B; H360FD	$\geq 20 - < 30$
SULFURIC ACID MONOPOTASSIUM	7646-93-7	Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335	$\geq 15 - < 20$
POTASSIUM PERSULFATE	7727-21-1	Ox. Sol. 3; H272 Acute Tox. 4; H302 Resp. Sens. 1; H334 Skin Sens. 1B; H317	$\geq 1.5 - < 5$
MAGNESIUM CARBONATE	546-93-0	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	$\geq 1 - < 1.5$

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.


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- If swallowed : Get medical attention immediately.  
Do NOT induce vomiting.  
Rinse mouth with water.  
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)  
Cough  
Shortness of breath  
lung edema (fluid buildup in the lung tissue)  
May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May damage fertility or the unborn child.  
Causes severe burns.
- 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
- 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.  
  
Organic dusts at sufficient concentration can form explosive mixtures in air.
- Hazardous combustion products : sulfur oxides  
acid vapors  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
metal oxides
- 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.

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

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : 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 : Keep in suitable, closed containers for disposal.

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## 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 dust formation.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Do not breathe vapours/dust.  
Do not smoke.  
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.  
Observe label precautions.  
No smoking.  
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage stability : No decomposition if stored and applied as directed.

 Strong bonds. Trusted solutions.		Page: 6
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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 concentration	Basis
BORATES, TETRA SODIUM SALTS, PENTAHYDRATE	12179-04-3	TWA	1 mg/m3	NIOSH REL
		TWA	10 mg/m3	OSHA P0
		TWA (Inhalable particulate matter)	2 mg/m3 (Borate)	ACGIH
		STEL (Inhalable particulate matter)	6 mg/m3 (Borate)	ACGIH
POTASSIUM PERSULFATE	7727-21-1	TWA	0.1 mg/m3 (Persulphate)	ACGIH
MAGNESIUM CARBONATE	546-93-0	TWA (Respirable)	5 mg/m3	NIOSH REL
		TWA (total)	10 mg/m3	NIOSH REL
		TWA (total dust)	15 mg/m3	OSHA Z-1
		TWA (respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (Total dust)	15 mg/m3	OSHA P0
		TWA (respirable dust fraction)	5 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.

Provide appropriate exhaust ventilation at places where dust 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.

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#### 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:  
Chemical resistant apron  
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.  
Ensure that eyewash stations and safety showers are close to the workstation location.  
When using do not smoke.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : granular

Colour : white

Odour : odourless

Odour Threshold : No data available

pH : 5.5 - 6.5

Melting point/freezing point : No data available


Boiling point/boiling range : No data available

Flash point : No data available

Evaporation rate : Not applicable

Flammability (solid, gas) : Not combustible Dust

Self-ignition : No data available

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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 : Not applicable

Relative density : 1.2 (68 °F / 20 °C)

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 : Not applicable

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

Incompatible materials : Acids  
Alkali metals  
alkalis  
ammonium salts  
aluminum



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Combustible material  
 Copper  
 Copper alloys  
 formaldehyde-like  
 halogens  
 Iron  
 Lead  
 lead alloys  
 magnesium  
 metal hydrides  
 metallic mercury  
 Organic materials  
 oxidizable substances  
 Powdered metals  
 Reducing agents

Hazardous decomposition products : Sulphur oxides  
 Nitrogen oxides (NO<sub>x</sub>)  
 toxic fumes  
 Carbon monoxide  
 Carbon dioxide (CO<sub>2</sub>)  
 Metal oxides

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

### Components:

#### **BORATES, TETRA SODIUM SALTS, PENTAHYDRATE:**

Acute oral toxicity : LD<sub>50</sub> (Rat): 3,200 - 3,400 mg/kg

Acute inhalation toxicity : LC<sub>50</sub> (Rat): > 2.0 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist  
 Assessment: Not classified as acutely toxic by inhalation under GHS.


#### **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.

#### **POTASSIUM PERSULFATE:**

Acute oral toxicity : LD<sub>50</sub> (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

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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 severe burns.

#### **Product:**

Result : Causes burns.

Remarks : May cause skin irritation in susceptible persons.  
Causes severe skin burns and eye damage.

#### **Components:**

#### **POTASSIUM PEROXYMONOSULFATE:**

Result : Causes burns.

#### **BORATES, TETRA SODIUM SALTS, PENTAHYDRATE:**

Result : Not irritating to skin

#### **SULFURIC ACID MONOPOTASSIUM:**

Result : Corrosive

#### **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.

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**BORATES, TETRA SODIUM SALTS, PENTAHYDRATE:**

Species : Rabbit  
Result : Mildly irritating to eyes

**SULFURIC ACID MONOPOTASSIUM:**

Result : Corrosive to eyes

**POTASSIUM PERSULFATE:**

Result : Slightly irritating to eyes

**MAGNESIUM CARBONATE:**

Result : Mildly irritating to eyes

**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:**

**BORATES, TETRA SODIUM SALTS, PENTAHYDRATE:**

**POTASSIUM PERSULFATE:**

**Germ cell mutagenicity**

Not classified based on available information.

**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**

May damage fertility or the unborn child.

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#### **Components:**

##### **BORATES, TETRA SODIUM SALTS, PENTAHYDRATE:**

Reproductive toxicity - Assessment : Clear evidence of adverse effects on sexual function and fertility, based on animal experiments., Clear evidence of adverse effects on development, based on animal experiments.

##### **STOT - single exposure**

Not classified based on available information.

##### **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 : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

#### **Components:**


##### **BORATES, TETRA SODIUM SALTS, PENTAHYDRATE:**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h  
Remarks: Information refers to the main component.

Toxicity to algae/aquatic plants : NOEC (Selenastrum capricornutum (green algae)): 118 mg/l  
End point: Growth inhibition  
Exposure time: 72 h  
Remarks: Information refers to the main component.

Toxicity to fish (Chronic toxicity) : NOEC (Danio rerio (zebra fish)): 37.7 mg/l  
Exposure time: 34 d  
Remarks: Information refers to the main component.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia (water flea)): 40 mg/l  
Exposure time: 21 d  
Remarks: Information refers to the main component.

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#### 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:

#### BORATES, TETRA SODIUM SALTS, PENTAHYDRATE:

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

#### POTASSIUM PERSULFATE:

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

#### Bioaccumulative potential

##### Components:

#### BORATES, TETRA SODIUM SALTS, PENTAHYDRATE:

Bioaccumulation : Remarks: Does not bioaccumulate.

#### Mobility in soil

No data available

#### Other adverse effects

##### Product:

Additional ecological information : No data available


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### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Do not dispose of waste into sewer.  
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

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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

UN number : UN 3260  
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s. (POTASSIUM HYDROGENPEROXOMONOSULPHATE)  
Class : 8  
Packing group : II  
Packing instruction (cargo aircraft) : 863  
Packing instruction (passenger aircraft) : 859  
Marine pollutant : no

#### IMDG-Code

UN number : UN 3260  
Proper shipping name : CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (POTASSIUM HYDROGENPEROXOMONOSULPHATE)  
Class : 8  
Packing group : II  
EmS Code : F-A, S-B  
Marine pollutant : no

### 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

UN number : UN 3260  
Proper shipping name : Corrosive solid, acidic, inorganic, n.o.s. (POTASSIUM HYDROGENPEROXOMONOSULPHATE)  
Class : 8  
Packing group : II  
ERG Code : 154  
Marine pollutant : no

### 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

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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.  
49CFR/IMDG: Packages with inner packaging less than 1L or 1kg and gross weight under 30kg may ship under the Limited Quantity Exception.

## 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  
Reproductive toxicity  
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

disodium tetraborate pentahydrate	12179-04-3
dipotassium peroxodisulphate	7727-21-1
MAGNESIUM CARBONATE	546-93-0

#### Pennsylvania Right To Know

POTASSIUM PEROXYMONOSULFATE	10058-23-8
disodium tetraborate pentahydrate	12179-04-3
POTASSIUM SULFATE	7778-80-5
potassium hydrogensulphate	7646-93-7
dipotassium peroxodisulphate	7727-21-1


#### New Jersey Right To Know

POTASSIUM PEROXYMONOSULFATE	10058-23-8
disodium tetraborate pentahydrate	12179-04-3
POTASSIUM SULFATE	7778-80-5
potassium hydrogensulphate	7646-93-7
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.

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

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TCSI	: On the inventory, or in compliance with the inventory
TSCA	: On the inventory, or in compliance with the inventory
AIIC	: All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	: On the inventory, or in compliance with the inventory
ENCS	: Not in compliance with the inventory
KECI	: Not 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. # ADJUVANT

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 skin and eye damage., Harmful if swallowed.

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## **SECTION 16. OTHER INFORMATION**


### **Further information**

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### **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.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H334	: May cause allergy or asthma symptoms or breathing




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difficulties if inhaled.  
H335 : May cause respiratory irritation.  
H360FD : May damage fertility. May damage the unborn child.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Ox. Sol. : Oxidizing solids  
Repr. : Reproductive toxicity  
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  
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  
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 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-

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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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