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## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : LEISURE TIME DEFENDER

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

Use of the Substance/Mixture : Water treatment chemical

<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	<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)
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## SECTION 2. HAZARDS IDENTIFICATION

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

Serious eye damage : Category 1

Carcinogenicity : Category 2

### GHS label elements


Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.  
H351 Suspected of causing cancer.

Precautionary statements : **Prevention:**  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

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**Response:**

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.

**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**

Chemical name	CAS-No.	Classification	Concentration (%)
(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA	139-89-9	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 5 - < 10
CITRIC ACID	77-92-9	Eye Irrit. 2A; H319 STOT SE 3; H335	>= 1.5 - < 5
TRISODIUM NITRILOTRIACETATE	5064-31-3	Acute Tox. 4; H302 Eye Irrit. 2A; H319 Carc. 2; H351	>= 0.1 - < 0.5

Actual concentration is withheld as a trade secret


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**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 : 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 : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing

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with soap and water.

- 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.
- 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 : Causes serious eye damage.  
Suspected of causing cancer.  
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)
- 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>)  
Hydrocarbons
- 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 for firefighters : In the event of fire, wear self-contained breathing apparatus.

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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 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. 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

Contains no substances with occupational exposure limit values.

- 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.

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### Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

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 when there is potential for exposure of the eyes or face to liquid, vapor or mist.  
Maintain eye wash station in immediate work area.

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).

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 : liquid

Odour : No data available

Odour Threshold : No data available

pH : 6.0 - 8.0

Melting point/freezing point : No data available

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Initial boiling point and boiling range : 212 °F / 100 °C

Flash point : No data available

Evaporation rate : No data available

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 : > 1

Relative density : 1.03 - 1.05 (68 °F / 20 °C)

Density : Not applicable

Solubility(ies)

Water solubility : completely miscible

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 : 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 : Exposure to air or moisture over prolonged periods.

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Incompatible materials : Alkaline earth metals  
aluminum  
carbonates  
Cyanides  
metal nitrates  
strong bases  
Strong oxidizing agents  
strong reducing agents  
sulfides  
sulphites

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

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Not classified based on available information.

### Components:

#### **(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA:**

Acute oral toxicity : LD50 (Rat): 2,000 mg/kg

Acute inhalation toxicity : LC0 (Rat): 3.95 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
GLP: yes  
Assessment: No adverse effect has been observed in acute inhalation toxicity tests.

Acute dermal toxicity : (Rabbit): Assessment: No adverse effect has been observed in acute dermal toxicity tests.

#### **CITRIC ACID:**


Acute oral toxicity : LD50 (Mouse): 5,040 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

#### **TRISODIUM NITRILOTRIACETATE:**

Acute oral toxicity : LD50 (Rat, male and female): 1,740 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat): 5 mg/l

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Exposure time: 4 h  
 Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
 Method: OECD Test Guideline 402  
 Assessment: No adverse effect has been observed in acute dermal toxicity tests.

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA:**

Species : Rabbit  
 Result : Slightly irritating to skin

**CITRIC ACID:**

Result : Slightly irritating to skin

**TRISODIUM NITRILOTRIACETATE:**

Result : Not irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

**Product:**

Remarks : May cause irreversible eye damage.

**Components:**

**(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA:**

Species : Bovine cornea  
 Result : Corrosive to eyes  
 Method : OECD Test Guideline 437

**CITRIC ACID:**

Result : Severely irritating to eyes

**TRISODIUM NITRILOTRIACETATE:**

Result : Irritating to eyes

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.



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**Components:**

**TRISODIUM NITRILOTRIACETATE:**

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

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA:**

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

**TRISODIUM NITRILOTRIACETATE:**

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

Test Type: In vitro mammalian cell gene mutation test  
 Test system: Chinese hamster fibroblasts  
 Metabolic activation: with and without metabolic activation  
 Method: OECD Test Guideline 476  
 Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test  
 Species: Mouse (male)  
 Application Route: Oral  
 Method: OECD Test Guideline 474  
 Result: negative

**Carcinogenicity**

Suspected of causing cancer.


**Components:**

**TRISODIUM NITRILOTRIACETATE:**

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

**IARC** Group 2B: Possibly carcinogenic to humans  
 trisodium nitrilotriacetate 5064-31-3  
 (Nitrilotriacetic acid and its salts)

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

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**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:**

**CITRIC ACID:**

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 : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.


**Components:**

**(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA:**

Toxicity to fish : LC50 (Fish): > 738 mg/l  
 Exposure time: 96 h  
 Test Type: semi-static test  
 Method: OECD Test Guideline 203  
 GLP: yes

LC50 (Pimephales promelas (fathead minnow)): 372 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 192 mg/l  
 Exposure time: 48 h

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Test Type: static test

Toxicity to algae/aquatic plants : EC50 (Algae, algal mat (Algae)): 26 mg/l  
Exposure time: 72 h

Toxicity to microorganisms : EC20 (activated sludge): > 1,000 mg/l  
Exposure time: 30 min  
Test Type: Static

**TRISODIUM NITRILOTRIACETATE:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 103 mg/l  
Exposure time: 96 h  
Test Type: flow-through test

LC50 (Lepomis macrochirus (Bluegill sunfish)): 270 mg/l  
Exposure time: 96 h  
Test Type: flow-through test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 560 - 1,000 mg/l  
Exposure time: 48 h  
Method: Static  
Remarks: Mortality

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Test Type: static test  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): > 54 mg/l  
Exposure time: 224 d  
Test Type: flow-through test

**Persistence and degradability**

**Components:**

**(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA:**


Biodegradability : Result: Not readily biodegradable.

**CITRIC ACID:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 97 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301E

**TRISODIUM NITRILOTRIACETATE:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 100 %  
Exposure time: 14 d  
Method: OECD Test Guideline 301E

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### Bioaccumulative potential

#### Components:

#### **(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA:**

Partition coefficient: n- : log Pow: ca. -11.35  
 octanol/water

#### **Mobility in soil**

No data available

#### **Other adverse effects**

#### Product:

Additional ecological : No data available  
 information

## 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  
 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 3267
- Proper shipping name : Corrosive liquid, basic, organic, n.o.s. (GLYCINE, N-[2-  
 [BIS(CARBOXYMETHYL)AMINO]ETHYL]-N-(2-  
 HYDROXYETHYL)-, TRISODIUM SALT, SODIUM  
 HYDROXIDE)
- Class : 8
- Packing group : III
- Packing instruction (cargo : 856  
 aircraft)
- Packing instruction : 852

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(passenger aircraft)  
 Marine pollutant : no

**IMDG-Code**

UN number : UN 3267  
 Proper shipping name : CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (GLYCINE, N-[2-[BIS(CARBOXYMETHYL)AMINO]ETHYL]-N-(2-HYDROXYETHYL)-, TRISODIUM SALT, SODIUM HYDROXIDE)  
 Class : 8  
 Packing group : III  
 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**

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.

Product not regulated for ground transport in the USA per exception permitted in 49 CFR 173.154(d).

**SECTION 15. REGULATORY INFORMATION**

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

**CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	308641


**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** : Carcinogenicity  
 Serious eye damage or eye irritation

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**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

trisodium nitrilotriacetate 5064-31-3

#### Pennsylvania Right To Know

WATER 7732-18-5  
(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA 139-89-9  
sodium hydroxide 1310-73-2

#### New Jersey Right To Know

WATER 7732-18-5  
(OH-ET)ETHYLENEDIAMINETRIACETIC AC, 3NA 139-89-9  
Citric Acid 77-92-9

#### 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 : 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

#### TSCA list

No substances are subject to a Significant New Use Rule.


No substances are subject to TSCA 12(b) export notification requirements.

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## SECTION 16. OTHER INFORMATION

### Further information

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#### Full text of H-Statements

H302 : Harmful if swallowed.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.  
H351 : Suspected of causing cancer.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Carc. : Carcinogenicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
STOT SE : Specific target organ toxicity - single exposure

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-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.

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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