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## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : Biosperse™ CX9969  
 MICROBIOCIDE  
 ™ Trademark, Solenis or its subsidiaries or affiliates,  
 registered in various countries

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

Use of the Substance/Mixture : Biocidal product

<b>Details of the supplier of the safety data sheet</b> Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA)  RegulatoryRequestsNA@solenis.com Solenis LLC	<b>Emergency telephone number</b> 1-844-SOLENIS (844-765-3647)  <b>Product Information</b> Contact your local Solenis representative
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## SECTION 2. HAZARDS IDENTIFICATION

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

Oxidizing solids : Category 3  
 Acute toxicity (Oral) : Category 4  
 Skin corrosion : Category 1  
 Serious eye damage : Category 1  
 Skin sensitisation : Category 1


### GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H272 May intensify fire; oxidizer.  
 H302 Harmful if swallowed.

 Strong bonds. Trusted solutions.		Page: 2
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H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements

:

**Prevention:**

P210 Keep away from heat.

P220 Keep/ Store away from clothing/ combustible materials.

P221 Take any precaution to avoid mixing with combustibles.

P260 Do not breathe dust or mist.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

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

**Response:**

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

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.

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

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.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS


Substance / Mixture

:

Mixture

**Components**

Chemical name	CAS-No.	Classification	Concentration (%)
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1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN	16079-88-2	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 90 - <= 100
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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. If breathed in, move person into fresh air. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use. If on clothes, remove clothes.
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	: 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: irritation (nose, throat, airways) Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. 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  
Carbon dioxide (CO2)  
Dry chemical
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Bromine  
Chlorine  
hydrogen bromide  
hydrogen chloride
- 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.  
Use a water spray to cool fully closed containers.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Avoid dust formation.  
Avoid breathing dust.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.  
Comply with all applicable federal, state, and local regulations.
- 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 : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).  
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. Keep away from combustible material. Provide appropriate exhaust ventilation at places where dust is formed.
Advice on safe handling	: Avoid dust formation. 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. 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


Contains no substances with occupational exposure limit values.

<b>Engineering measures</b>	: 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.
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### Personal protective equipment

Hand protection

Remarks	: The suitability for a specific workplace should be discussed with the producers of the protective gloves.
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- 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 resistant gloves (consult your safety equipment supplier).  
Wear as appropriate:  
Chemical resistant apron  
Safety shoes  
Dust impervious protective suit  
Flame-resistant clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
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 : tablet
- Colour : white
- Odour : slight chlorine
- Odour Threshold : No data available
- pH : 3.5
- Melting point/freezing point : No data available
- Boiling point/boiling range : 212 °F / 100 °C  
(1,013.333333 hPa)  
Calculated Phase Transition Liquid/Gas
- Flash point : Not applicable
- Evaporation rate : < 1  
n-Butyl Acetate
- Flammability (solid, gas) : No data available
- Self-ignition : No data available
- Upper explosion limit / Upper flammability limit : No data available

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Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: 23.3333333 hPa (68 °F / 20 °C) Calculated Vapor Pressure
Relative vapour density	: > 1 AIR=1
Relative density	: No data available
Density	: 1.8 g/cm3
Solubility(ies)	
Water solubility	: negligible
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 classified as oxidizing with the category 3. Method: UN Test O.1 (oxidizing solids): Manual of tests and criteria. Test O.1 (United Nations Recommendations on the Transport of Dangerous Substances)

## 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	: Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials	: Organic materials Strong acids strong bases strong reducing agents

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Hazardous decomposition products : hydrogen bromide  
hydrogen chloride  
Nitrogen oxides (NOx)  
Bromine  
Chlorine  
Hydrogen chloride gas

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed.

#### Components:

#### **1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:**

Acute oral toxicity : LD50 (Rat, male and female): 929 mg/kg

Acute inhalation toxicity : LC 50 (Rat, male and female): 0.168 mg/l  
Test atmosphere: dust/mist  
Method: OPPTS 870.1300

Acute dermal toxicity : LD50 (Rat): > 2 g/kg  
Method: OPPTS 870.1200  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.  
Remarks: Information given is based on data obtained from similar substances.

### Skin corrosion/irritation

Causes severe burns.

#### Product:

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

#### Components:

#### **1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:**

Species : Rabbit  
Result : Corrosive to skin


### Serious eye damage/eye irritation

Causes serious eye damage.

#### Product:

Remarks : May cause irreversible eye damage.



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#### **Components:**

##### **1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:**

Species : Rabbit  
 Result : Corrosive to eyes

#### **Respiratory or skin sensitisation**

##### **Skin sensitisation**

May cause an allergic skin reaction.

##### **Respiratory sensitisation**

Not classified based on available information.

#### **Product:**

Remarks : May cause allergic skin reaction.

#### **Components:**

##### **1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:**

Species : Guinea pig

#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**


##### **1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:**

Genotoxicity in vitro : Test Type: Ames test  
 Test system: Salmonella typhimurium  
 Metabolic activation: with and without metabolic activation  
 Method: OPPTS 870.5100  
 Result: negative  
 Remarks: Information given is based on data obtained from similar substances.

Test Type: In vitro mammalian cell gene mutation test  
 Test system: mouse lymphoma cells  
 Metabolic activation: with and without metabolic activation  
 Method: OPPTS 870.5300  
 Result: negative  
 Remarks: Information given is based on data obtained from similar substances.

Test Type: in vitro assay  
 Test system: Chinese hamster ovary cells  
 Method: OPPTS 870.5375  
 Result: negative  
 Remarks: Information given is based on data obtained from similar substances.

Test Type: unscheduled DNA synthesis assay

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Method: OPPTS 870.5550  
 Result: negative  
 Remarks: Information given is based on data obtained from similar substances.

### 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.

#### STOT - repeated exposure

Not classified based on available information.

### Aspiration toxicity

Not classified based on available information.

### Further information

#### Product:

Remarks : No data available

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## SECTION 12. ECOLOGICAL INFORMATION


### Ecotoxicity

#### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.87 mg/l  
 Exposure time: 96 h  
 Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 2.25 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 0.48 mg/l  
 Exposure time: 48 h  
 Test Type: static test

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### Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 1; Very toxic to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

### Components:

#### 1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.17 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): 0.1 mg/l  
Exposure time: 48 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC (Pimephales promelas (fathead minnow)): 14 mg/l

### Persistence and degradability

#### Product:

Biochemical Oxygen Demand (BOD) : 11 mg/g  
Incubation time: 28 d  
Remarks: Based on a similar product formulation.

Chemical Oxygen Demand (COD) : ca. 1,005 mg/g  
Remarks: Based on a similar product formulation.

### Components:

#### 1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN:

Biodegradability : Remarks: Readily biodegradable

### Bioaccumulative potential

No data available


### 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.  
Very toxic to aquatic life.

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## 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.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

- UN number : UN 3085
- Proper shipping name : Oxidizing solid, corrosive, n.o.s. (BROMO CHLORO DIMETHYLHYDANTOIN)
- Class : 5.1
- Subsidiary risk : 8
- Packing group : III
- Packing instruction (cargo aircraft) : 563
- Packing instruction (passenger aircraft) : 559

#### IMDG-Code


- UN number : UN 3085
- Proper shipping name : OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMO CHLORO DIMETHYLHYDANTOIN)
- Class : 5.1
- Subsidiary risk : 8
- Packing group : III
- EmS Code : F-A, S-Q
- 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

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UN number : UN 3085  
 Proper shipping name : Oxidizing solid, corrosive, n.o.s. (BROMO CHLORO DIMETHYLHYDANTOIN)  
 Class : 5.1  
 Subsidiary risk : 8  
 Packing group : III  
 ERG Code : 140  
 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 Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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** : Oxidiser (liquid, solid or gas)  
 Acute toxicity (any route of exposure)  
 Respiratory or skin sensitization  
 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.

### 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

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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  
 NZIOC : On the inventory, or in compliance with the inventory

#### TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:  
 1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN 16079-88-2

#### Biocides

EPA Reg. # 83451-4-74655

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 and skin burns., Harmful if swallowed.,  
 Irritating to nose and throat, Do not get in eyes, on skin or on clothing., Avoid breathing dust and fumes.

## SECTION 16. OTHER INFORMATION

#### Further information


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#### Full text of H-Statements

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.

#### Full text of other abbreviations

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

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Skin Corr. : Skin corrosion  
 Skin Sens. : Skin sensitisation

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; 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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		SDS Number: 000000256314
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