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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

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

GHS classification in accordance with 29 CFR 1910.1200

Oxidizing solids : Category 2
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.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

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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 should 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

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
1-BROMO-3-CHLORO-5,5-DIMETHYL HYDANTOIN	16079-88-2	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Corr. 1; H314	>= 90 - <= 100

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		Eye Dam. 1; H318 Skin Sens. 1; H317	
--	--	--	--

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.

SECTION 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local

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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.

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.

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- 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.
 Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
 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.

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.

Provide appropriate exhaust ventilation at places where dust is formed.


Personal protective equipment

Hand protection

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

- Eye protection : Wear chemical splash goggles 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).

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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.

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 : 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 : No data available

Lower explosion limit : No data available

Vapour pressure : 23.3333333 hPa (20 °C)
 Calculated Vapor Pressure

Relative vapour density : > 1
 AIR=1

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- 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 : No data available

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
- Hazardous decomposition products : **hydrogen bromide**
hydrogen chloride
Nitrogen oxides (NO_x)
Bromine
Chlorine
Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
 Harmful if swallowed.

Product:

- Acute oral toxicity : Acute toxicity estimate: 938.38 mg/kg
 Method: Calculation method

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

Acute oral toxicity : LD 50 (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 870.1300Acute dermal toxicity : LD 50 (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.

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.

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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
Species: 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
Species: 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
Species: 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
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 identified as a carcinogen or potential carcinogen by OSHA.

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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.

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:**

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.87 mg/l
Exposure time: 96 h
Test Type: static test

LC 50 (Pimephales promelas (fathead minnow)): 2.25 mg/l
Exposure time: 96 h
Test Type: static test

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

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 : LC 50 (Daphnia magna (Water flea)): 0.1 mg/l

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aquatic invertebrates Exposure time: 48 h

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.

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.

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SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
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U.S. DOT - ROAD

UN 3085	Oxidizing solid, corrosive, n.o.s. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II	
---------	--	-----	-----	----	--

U.S. DOT - RAIL

UN 3085	Oxidizing solid, corrosive, n.o.s. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II	
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U.S. DOT - INLAND WATERWAYS

UN 3085	Oxidizing solid, corrosive, n.o.s. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II	
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TRANSPORT CANADA - ROAD

UN 3085	OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II	
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TRANSPORT CANADA - RAIL

UN 3085	OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II	
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INTERNATIONAL MARITIME DANGEROUS GOODS

UN 3085	OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II	
---------	--	-----	-----	----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 3085	Oxidizing solid, corrosive, n.o.s. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II	
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	3085	Oxidizing solid, corrosive, n.o.s. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II
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MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	3085	SOLIDO COMBURENTE, CORROSIVO, N.E.P. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II
----	------	--	-----	-----	----

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no
------------------	----

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

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)
 Skin corrosion or irritation
 Acute toxicity (any route of exposure)
 Serious eye damage or eye irritation
 Respiratory or skin sensitization

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:

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- DSL : All components of this product are on the Canadian DSL
- AICS : On the inventory, or in compliance with the inventory
- 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
- TCSI : On the inventory, or in compliance with the inventory
- TSCA : On TSCA Inventory

Biocides

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.

TSCA list

No substances are subject to a Significant New Use Rule.

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

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Further information

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by the Solenis Environmental Health and Safety Department.

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.

Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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

US / EN



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