

**SAFETY DATA SHEET**

Revision Date: 11/30/2022

Print Date: 12/05/2022

SDS Number: 000000256653

Version: 2.2

Biosperse™ CN8059 MICROBIOCIDE  
™ Trademark, Solenis or its subsidiaries or affiliates,  
registered in various countries  
861453

**SECTION 1. IDENTIFICATION****Product identifier**

Trade name

: Biosperse™ CN8059 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 : Biocide

**Biocides**

PCPA Reg. # 32050

**Details of the supplier of the safety data sheet**

Solenis Canada ULC  
942 Brant St.  
Burlington, ON L7R 3X8  
Canada

EHSProductSafetyTeam@solenis.com

**Emergency telephone number**

1-844-SOLENIS (844-765-3647)

**Product Information**

Contact your local Solenis representative

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the Hazardous Products Regulations**

Flammable liquids : Category 4

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

**GHS label elements**

Hazard pictograms :  

Signal word : Danger

Hazard statements : H227 Combustible liquid.  
H314 Causes severe skin burns and eye damage.  
H332 Harmful if inhaled.

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**Precautionary statements****: Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist or vapours.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face 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.  
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.  
P363 Wash contaminated clothing before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**: Storage:**

P403 Store in a well-ventilated place.  
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.	Concentration (% w/w)
ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE	68424-85-1	>= 5 - < 10
DODECYLGUANIDINE HYDROCHLORIDE	13590-97-1	>= 5 - < 10
ISOPROPANOL	67-63-0	>= 1.5 - < 5

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ETHANOL

64-17-5

&gt;= 1.5 - &lt; 5

Actual concentration or concentration range 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 INHALED: Call a POISON CENTER/ doctor if you feel unwell.  
Keep patient warm and at rest.  
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : 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:  
stomach or intestinal upset (nausea, vomiting, diarrhea)  
irritation (nose, throat, airways)  
Cough  
confusion  
irregular heartbeat  
lung edema (fluid buildup in the lung tissue)  
respiratory failure  
Administration of high doses of isopropanol in combination with known hepatotoxic chemicals resulted in enhanced liver toxicity in experimental animals.  
Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs

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may initiate cardiac arrhythmias in persons exposed to this material.

Causes serious eye damage.

Harmful if inhaled.

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 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 : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.  
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>)  
May form:  
Ammonia  
hydrogen chloride  
formaldehyde-like  
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.  
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 : Remove all sources of ignition.  
Use personal protective equipment.

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emergency procedures	<p>Ensure adequate ventilation.          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.          Suppress (knock down) gases/vapours/mists with a water spray jet.</p>
Environmental precautions	<ul style="list-style-type: none"> <li>: 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.</li> </ul>
Methods and materials for containment and cleaning up	<ul style="list-style-type: none"> <li>: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).                      Keep in suitable, closed containers for disposal.</li> </ul>

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	<ul style="list-style-type: none"> <li>: No sparking tools should be used.                      Keep away from open flames, hot surfaces and sources of ignition.</li> </ul> <p>Static ignition hazard can result from handling and use.          Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.</p>
Advice on safe handling	<ul style="list-style-type: none"> <li>: Avoid formation of aerosol.                      Provide sufficient air exchange and/or exhaust in work rooms.                      Do not breathe vapours/dust.                      Do not smoke.                      Container hazardous when empty.                      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.</li> </ul>
Conditions for safe storage	<ul style="list-style-type: none"> <li>: 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.                      No smoking.                      Electrical installations / working materials must comply with</li> </ul>

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the technological safety standards.

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

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ISOPROPANOL	67-63-0	STEL	400 ppm 984 mg/m <sup>3</sup>	CA AB OEL
		TWA	200 ppm 492 mg/m <sup>3</sup>	CA AB OEL
		TWA	200 ppm	CA BC OEL
		STEL	400 ppm	CA BC OEL
		TWAEV	200 ppm	CA QC OEL
		STEV	400 ppm	CA QC OEL
ETHANOL	64-17-5	TWA	1,000 ppm 1,880 mg/m <sup>3</sup>	CA AB OEL
		STEL	1,000 ppm	CA BC OEL
		STEV	1,000 ppm	CA QC OEL

**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.

#### 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

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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 Chemical resistant apron 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).  Discard gloves that show tears, pinholes, or signs of wear.
Hygiene measures	: 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	: Aqueous solution
Colour	: yellow
Odour	: mild
Odour Threshold	: No data available
pH	: 2 - 5
Melting point/freezing point	: ca. -2 °C
Boiling point/boiling range	: No data available
Flash point	: ca. 65 °C
Evaporation rate	: < 1 n-Butyl Acetate
Flammability (solid, gas)	: No data available

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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	:	24 hPa
Relative vapour density	:	< 1
Relative density	:	No data available
Density	:	0.977 - 0.996 g/cm <sup>3</sup> (25 °C)
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	11 - 25 mPa.s ( 21 °C)
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	:	Vapours may form explosive mixture with air.
Conditions to avoid	:	Heat, flames and sparks.  excessive heat Protect from frost. Heat, flames and sparks.
Incompatible materials	:	Avoid contact with: Acids Aldehydes Alkali metals

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Amines	
Ammonia	
Bases	
Cyanides	
Ethylene oxide	
halogenated hydrocarbons	
halogens	
inorganic materials	
isocyanates	
Oxidizing agents	
potassium hydroxide	
Reducing agents	
sodium	
sulfides	
Do not use with aluminum equipment at temperatures above 49C or 120 degrees F.	
Hazardous decomposition products	: Carbon monoxide Carbon dioxide (CO <sub>2</sub> ) Nitrogen oxides (NO <sub>x</sub> ) May form: Ammonia Hydrogen chloride gas Formaldehyde Hydrocarbons

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if inhaled.

### Product:

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

Acute dermal toxicity : LD50 (Rabbit): Expected > 2,000 mg/kg

### Components:

#### **ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE:**

Acute oral toxicity : LD50 (Rat): 358 mg/kg

#### **DODECYLGUANIDINE HYDROCHLORIDE:**

Acute oral toxicity : LD50 (Rat, male and female): 1,456 mg/kg

Acute inhalation toxicity : LC50 (Rat): 0.2 mg/l  
 Exposure time: 4 h  
 Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

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**ISOPROPANOL:**

- Acute oral toxicity : LD50 (Rat): 5.84 g/kg
- Acute inhalation toxicity : LC 50 (Rat): 16000 ppm  
Exposure time: 4 h  
Test atmosphere: vapour
- Acute dermal toxicity : LD50 (Rabbit): 12,800 mg/kg

**ETHANOL:**

- Acute oral toxicity : LD50 (Rat): 7,060 mg/kg
- Acute inhalation toxicity : LC 50 (Rat): 117 - 125 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour
- LC 50 (Mouse): 39 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour
- Acute dermal toxicity : LDLo (Rabbit): 20 g/kg

**Skin corrosion/irritation**

Causes severe burns.

**Product:**

- Remarks : Causes severe skin burns and eye damage.

**Components:****ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE:**

- Species : Rabbit  
Result : Causes burns.

**DODECYLGUANIDINE HYDROCHLORIDE:**

- Result : Corrosive to skin

**ISOPROPANOL:**

- Result : Slightly irritating to skin

**ETHANOL:**

- Result : Slightly irritating to skin

**Serious eye damage/eye irritation**

Causes serious eye damage.

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**Product:**

Remarks : May cause irreversible eye damage.

**Components:****ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE:**

Result : Corrosive to eyes

**DODECYLGUANIDINE HYDROCHLORIDE:**

Result : Corrosive to eyes

**ISOPROPANOL:**

Result : Irritating to eyes

**ETHANOL:**

Result : Irritating to eyes

**Respiratory or skin sensitisation****Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Components:****DODECYLGUANIDINE HYDROCHLORIDE:****Germ cell mutagenicity**

Not classified based on available information.

**Components:****DODECYLGUANIDINE HYDROCHLORIDE:**

Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Result: negative

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

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### Components:

#### **ISOPROPANOL:**

Assessment : May cause drowsiness or dizziness.

#### **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**

#### Components:

#### **ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE:**

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): 0.860 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

LC50 (Oncorhynchus mykiss (rainbow trout)): 0.923 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.016 mg/l  
 Exposure time: 48 h  
 Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (algae)): 0.049 mg/l  
 End point: Growth inhibition  
 Exposure time: 72 h  
 Test Type: static test  
 Method: OECD Test Guideline 201  
 GLP: yes

M-Factor (Acute aquatic toxicity) : 10

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.00415 mg/l  
 End point: Reproduction Test  
 Exposure time: 21 d  
 Analytical monitoring: yes  
 GLP: yes

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### DODECYLGUANIDINE HYDROCHLORIDE:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.57 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.0178 mg/l  
 Exposure time: 48 h

### ISOPROPANOL:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 5,770 - 7,450 mg/l  
 Exposure time: 96 h  
 Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Daphnia magna (Water flea)): > 10,000 mg/l  
 Exposure time: 24 h  
 Test Type: static test

### ETHANOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 12,000 - 16,000 mg/l  
 Exposure time: 96 h  
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l  
 Exposure time: 48 h  
 Test Type: static test

### Persistence and degradability

#### Components:

#### ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE:

Biodegradability : Result: Readily biodegradable.

#### DODECYLGUANIDINE HYDROCHLORIDE:

Biodegradability : Result: Readily biodegradable.  
 Biodegradation: > 70 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301E

#### ISOPROPANOL:

Biodegradability : Result: Readily biodegradable.

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### Bioaccumulative potential

#### Components:

#### ALKYL (C12-16) DIMETHYLBENZYL AMMONIUM CHLORIDE:

Bioaccumulation : Species: Bluegill (Lepomis macrochirus)  
Bioconcentration factor (BCF): 80.4  
Exposure time: 60 d  
Concentration: 0.25 mg/l  
Method: Flow through

Species: Bluegill (Lepomis macrochirus)  
Bioconcentration factor (BCF): 33.3  
Exposure time: 60 d  
Concentration: 0.25 mg/l  
Method: Flow through

#### ISOPROPANOL:

Partition coefficient: n-octanol/water : log Pow: 0.05

#### ETHANOL:

Partition coefficient: n-octanol/water : log Pow: -0.31

#### 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.  
Toxic to aquatic life with long lasting effects.

#### Components:

#### DODECYLGUANIDINE HYDROCHLORIDE:

Additional ecological information : No data available

## 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.

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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 3265
Proper shipping name	:	Corrosive liquid, acidic, organic, n.o.s. (DODECYLGUANIDINE HYDROCHLORIDE, QUATERNARY AMMONIUM COMPOUNDS)
Class	:	8
Packing group	:	II
Packing instruction (cargo aircraft)	:	855
Packing instruction (passenger aircraft)	:	851
Marine pollutant	:	yes

#### IMDG-Code

UN number	:	UN 3265
Proper shipping name	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DODECYLGUANIDINE HYDROCHLORIDE, QUATERNARY AMMONIUM COMPOUNDS)
Class	:	8
Packing group	:	II
EmS Code	:	F-A, S-B
Marine pollutant	:	yes

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### National Regulations

#### TDG

UN number	:	UN 3265
Proper shipping name	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (DODECYLGUANIDINE HYDROCHLORIDE, QUATERNARY AMMONIUM COMPOUNDS)
Class	:	8
Packing group	:	II

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ERG Code : 153  
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.

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**SECTION 15. REGULATORY INFORMATION**

**NPRI Components** : propan-2-ol  
ethanol

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

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

TSCA : Exempt

AIIC : All components are listed on the inventory, regulatory obligations/restrictions apply

DSL : Exempt

ENCS : Not 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

**Canadian lists**

Exempt- This product is exempt from Significant New Activity Notification requirements. See information under Biocides for product registration information."

**Biocides**

PCPA Reg. # 32050

Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product. This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:, Caution Poison symbol, Warning Corrosive symbol, WARNING!, There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

**SAFETY DATA SHEET**

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Biosperse™ CN8059 MICROBIOCIDE  
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861453

Version: 2.2

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**SECTION 16. OTHER INFORMATION****Further information**

Revision Date : 11/30/2022

**Full text of other abbreviations**

CA AB OEL	: Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	: Canada. British Columbia OEL
CA QC OEL	: Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
CA AB OEL / TWA	: 8-hour Occupational exposure limit
CA AB OEL / STEL	: 15-minute occupational exposure limit
CA BC OEL / TWA	: 8-hour time weighted average
CA BC OEL / STEL	: short-term exposure limit
CA QC OEL / TWAEV	: Time-weighted average exposure value
CA QC OEL / STEV	: Short-term exposure value

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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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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