	Page: 1
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0

## SECTION 1. IDENTIFICATION

### Product identifier

Trade name : Biosperse™ CN4200  
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

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

## SECTION 2. HAZARDS IDENTIFICATION

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


Corrosive to metals : Category 1  
 Acute toxicity (Oral) : Category 4  
 Acute toxicity (Inhalation) : Category 4  
 Skin corrosion : Category 1  
 Serious eye damage : Category 1  
 Skin sensitisation : Category 1

### GHS label elements

Hazard pictograms :



Signal word : Danger

	Page: 2
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0

Hazard statements : H290 May be corrosive to metals.  
 H302 + H332 Harmful if swallowed or if inhaled.  
 H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.

Precautionary statements : **Prevention:**  
 P234 Keep only in original container.  
 P261 Avoid breathing mist or vapours.  
 P264 Wash skin thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P271 Use only outdoors or in a well-ventilated area.  
 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.  
 P390 Absorb spillage to prevent material damage.

**Storage:**

P405 Store locked up.  
 P406 Store in corrosive resistant container with a resistant inner liner.

**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

	Page: 3
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDES ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0


### Components

Chemical name	CAS-No.	Classification	Concentration (%)
POLYETHYLENE GLYCOL	25322-68-3	Not a hazardous substance or mixture.	>= 50 - < 60
2,2 DIBROMO-3-NITRILOPROPIONAMIDE	10222-01-2	Acute Tox. 3; H301 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1B; H317	>= 20 - < 30

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 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	: Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use.
In case of eye contact	: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye.
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)

	Page: 4
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDES ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0

irritation (nose, throat, airways)  
 Headache  
 Harmful if swallowed or if inhaled.  
 May cause an allergic skin reaction.  
 Causes serious eye damage.  
 Causes severe burns.

Notes to physician : Probable mucosal damage may contraindicate the use of gastric lavage.  
 Probable mucosal damage may contraindicate the use of gastric lavage.  
 Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

## 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>)  
 Hydrocarbons  
 Alcohols  
 ethers  
 Ketones  
 Bromine  
 Nitrogen oxides (NO<sub>x</sub>)  
 hydrogen bromide  
 Sodium oxides

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

	Page: 5
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0

for firefighters

## SECTION 6. ACCIDENTAL RELEASE MEASURES


- |   |   |
|---|---|
| Personal precautions,<br>protective equipment and<br>emergency procedures | : Use personal protective equipment.<br>Ensure adequate ventilation.<br>Persons not wearing protective equipment should be excluded<br>from area of spill until clean-up has been completed.<br>Comply with all applicable federal, state, and local regulations. |
| Environmental precautions   | : Prevent product from entering drains.<br>Prevent further leakage or spillage if safe to do so.<br>If the product contaminates rivers and lakes or drains inform<br>respective authorities.  |
| Methods and materials for<br>containment and cleaning up                  | : Soak up with inert absorbent material (e.g. sand, silica gel,<br>acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal.  |

## SECTION 7. HANDLING AND STORAGE

- |  |  |
|--|--|
| Advice on protection against<br>fire and explosion | : Normal measures for preventive fire protection.  |
| Advice on safe handling                            | : Do not breathe vapours/dust.<br>Do not smoke.<br>Container hazardous when empty.<br>Avoid exposure - obtain special instructions before use.<br>Avoid contact with skin and eyes.<br>Smoking, eating and drinking should be prohibited in the<br>application area.<br>For personal protection see section 8.<br>Dispose of rinse water in accordance with local and national<br>regulations. |
| Conditions for safe storage                        | : Keep container tightly closed in a dry and well-ventilated<br>place.<br>Containers which are opened must be carefully resealed and<br>kept upright to prevent leakage.<br>Observe label precautions.<br>Electrical installations / working materials must comply with<br>the technological safety standards.   |
| Further information on<br>storage stability        | : No decomposition if stored and applied as directed.  |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

	Page: 6
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
POLYETHYLENE GLYCOL	25322-68-3	TWA (aerosol)	10 mg/m3	US WEEL
2,2 DIBROMO-3-NITRILOPROPIONAMIDE	10222-01-2	TWA	5 mg/m3 (Cyanide)	OSHA Z-1
		C	5 mg/m3 (Cyanide)	ACGIH
		TWA	5 mg/m3 (Cyanide)	OSHA P0
		C	4.7 ppm 5 mg/m3 (Cyanide)	NIOSH REL

**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** : 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**  
Material : Nitrile rubber

**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

		Page: 7
<b>SAFETY DATA SHEET</b>		Revision Date: 06/30/2022
		Print Date: 08/01/2022
		SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805		Version: 3.0

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 : liquid

Colour : colourless, brown

Odour : odourless, mild

Odour Threshold : No data available

pH : 1.5 - 5.0

Melting point/freezing point : < -58 °F / < -50 °C

Boiling point/boiling range : > 158 °F / > 70 °C

Flash point : > 212 °F / > 100 °C  
 Method: ASTM D 93

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 : 18.9 mmHg (77 °F / 25 °C)

Relative vapour density : No data available

	Page: 8
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0


Relative density : 1.20 - 1.30 (73 °F / 23 °C)  
 Density : No data available  
 Solubility(ies)  
     Water solubility : soluble  
     Solubility in other solvents : No data available  
 Partition coefficient: n-octanol/water : No data available  
 Decomposition temperature : No data available  
 Viscosity  
     Viscosity, dynamic : 20 cps (77 °F / 25 °C)  
                                     Method: Brookfield  
     Viscosity, kinematic : 0.16 Stokes (77 °F / 25 °C)  
 Oxidizing properties : No data available  
 Metal corrosion rate : Corrosive to metals

---

## 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 : Heat, flames and sparks.  
                                     Exposure to moisture  
 Incompatible materials : Acids  
                                     anionic materials  
                                     Bases  
                                     oxidizable substances  
                                     reducing agents  
                                     Strong oxidizing agents  
 Hazardous decomposition products : Alcohols  
                                     Carbon monoxide  
                                     Carbon dioxide (CO<sub>2</sub>)  
                                     ethers  
                                     Hydrocarbons  
                                     Ketones  
                                     Bromine  
                                     Nitrogen oxides (NO<sub>x</sub>)



		Page: 9
<b>SAFETY DATA SHEET</b>		Revision Date: 06/30/2022
		Print Date: 08/01/2022
		SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDES ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805		Version: 3.0

## SECTION 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed or if inhaled.

#### Product:

- Acute oral toxicity : LD50 (Rat): 510 mg/kg
- Acute inhalation toxicity : LC50 (Rat, female): 1.25 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist
- LC50 (Rat, male): 1.4 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

#### Components:

##### **POLYETHYLENE GLYCOL:**

- Acute oral toxicity : LD50 (Rat): > 20 g/kg
- Acute dermal toxicity : LD50 (Rabbit): > 20 g/kg

##### **2,2 DIBROMO-3-NITRILOPROPIONAMIDE:**


- Acute oral toxicity : LD50 (Rat, male): 235 mg/kg
- LD50 (Rat, female): 178 mg/kg
- Acute inhalation toxicity : LC 50 (Rat): 0.32 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 (Rabbit): > 2 g/kg  
Assessment: No adverse effect has been observed in acute dermal toxicity tests.

### Skin corrosion/irritation

Causes severe burns.

#### Product:

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

 Strong bonds. Trusted solutions.	Page: 10
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0

#### **Components:**

##### **POLYETHYLENE GLYCOL:**

Result : Not irritating to skin

##### **2,2 DIBROMO-3-NITRILOPROPIONAMIDE:**

Species : Rabbit

Result : Irritating to skin

#### **Serious eye damage/eye irritation**

Causes serious eye damage.

#### **Product:**

Remarks : May cause irreversible eye damage.

#### **Components:**

##### **POLYETHYLENE GLYCOL:**

Result : Not irritating to eyes

##### **2,2 DIBROMO-3-NITRILOPROPIONAMIDE:**

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:**

##### **2,2 DIBROMO-3-NITRILOPROPIONAMIDE:**

Test Type : Maximisation Test

Species : Guinea pig


#### **Germ cell mutagenicity**

Not classified based on available information.

#### **Components:**

##### **2,2 DIBROMO-3-NITRILOPROPIONAMIDE:**

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

		Page: 11
<b>SAFETY DATA SHEET</b>		Revision Date: 06/30/2022
		Print Date: 08/01/2022
		SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDES ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805		Version: 3.0

Metabolic activation: with and without metabolic activation  
 Result: negative

Test Type: In vitro mammalian cell gene mutation test  
 Test system: Chinese hamster ovary cells  
 Metabolic activation: with and without metabolic activation  
 Result: negative

Test Type: Chromosome aberration test in vitro  
 Test system: Human lymphocytes  
 Metabolic activation: with and without metabolic activation  
 Result: positive

Test Type: unscheduled DNA synthesis assay  
 Test system: rat hepatocytes  
 Result: negative

#### 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


---

## SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

##### Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l

		Page: 12
<b>SAFETY DATA SHEET</b>		Revision Date: 06/30/2022
		Print Date: 08/01/2022
		SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDES ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805		Version: 3.0

Exposure time: 96 h

LC50 (Cyprinodon variegatus (sheepshead minnow)): 3.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.5 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.5 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition

#### Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 3; Harmful to aquatic life with long lasting effects.

#### Components:

##### **POLYETHYLENE GLYCOL:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 20,000 mg/l  
Exposure time: 96 h  
Test Type: static test

##### **2,2 DIBROMO-3-NITRILOPROPIONAMIDE:**

Toxicity to fish : LC50 (Bluegill (Lepomis macrochirus)): 2.3 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.86 mg/l  
Exposure time: 48 h

EC50 (Daphnia magna (Water flea)): > 100 mg/l  
Exposure time: 48 h


Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 2.2 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity) : (Oncorhynchus mykiss (rainbow trout)): 0.47 - 0.98 mg/l

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.02 mg/l  
Exposure time: 21 d

#### Persistence and degradability

#### Product:

		Page: 13
<b>SAFETY DATA SHEET</b>		Revision Date: 06/30/2022
		Print Date: 08/01/2022
		SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDES ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805		Version: 3.0

Biodegradability : Remarks: Readily biodegradable

**Components:**

**POLYETHYLENE GLYCOL:**

Biodegradability : Result: Readily biodegradable.

**2,2 DIBROMO-3-NITRILOPROPIONAMIDE:**

Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential**

**Components:**

**2,2 DIBROMO-3-NITRILOPROPIONAMIDE:**

Partition coefficient: n- : Pow: 6.31  
 octanol/water pH: 7

**Mobility in soil**

No data available

**Other adverse effects**

**Product:**

Additional ecological : An environmental hazard cannot be excluded in the event of  
 information unprofessional handling or disposal.  
 Toxic to aquatic life.  
 Harmful to aquatic life with long lasting effects.


---

**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.

		Page: 14
<b>SAFETY DATA SHEET</b>		Revision Date: 06/30/2022
		Print Date: 08/01/2022
		SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805		Version: 3.0

## SECTION 14. TRANSPORT INFORMATION

### International Regulations

#### IATA-DGR

UN number : UN 3265  
 Proper shipping name : Corrosive liquid, acidic, organic, n.o.s. (2,2 DIBROMO-3-NITRILOPROPIONAMIDE)  
 Class : 8  
 Packing group : III  
 Packing instruction (cargo aircraft) : 856  
 Packing instruction (passenger aircraft) : 852  
 Marine pollutant : no

#### IMDG-Code

UN number : UN 3265  
 Proper shipping name : CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (2,2 DIBROMO-3-NITRILOPROPIONAMIDE)  
 Class : 8  
 Packing group : III  
 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

#### 49 CFR

UN number : UN 3265  
 Proper shipping name : Corrosive liquid, acidic, organic, n.o.s. (2,2 DIBROMO-3-NITRILOPROPIONAMIDE)  
 Class : 8  
 Packing group : III  
 ERG Code : 153  
 Marine pollutant : no  
  
 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.

 <b>SAFETY DATA SHEET</b>		Page: 15
		Revision Date: 06/30/2022
		Print Date: 08/01/2022
		SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805		Version: 3.0

## 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** : Corrosive to metals  
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

Proposition 65 warnings are not required for this product based on the results of a risk assessment.


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

TCSI : On the inventory, or in compliance with the inventory  
TSCA : Exempt  
DSL : Exempt  
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  
NZIOC : On the inventory, or in compliance with the inventory

#### TSCA list

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

Exempt-This product is exempt from TSCA 12(b) requirements. See information under Biocides for product registration information."

	Page: 16
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDES ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0

## Biocides

EPA Reg. # 74655-21

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., May be fatal if inhaled., May be fatal if swallowed., Causes skin irritation., Do not get in eyes, on skin or on clothing., Do not breathe dust., Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## SECTION 16. OTHER INFORMATION

### Further information

Revision Date : 06/30/2022

### Full text of H-Statements


H301 : Toxic if swallowed.  
 H315 : Causes skin irritation.  
 H317 : May cause an allergic skin reaction.  
 H318 : Causes serious eye damage.  
 H330 : Fatal if inhaled.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
 Eye Dam. : Serious eye damage  
 Skin Irrit. : Skin irritation  
 Skin Sens. : Skin sensitisation  
 ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
 NIOSH REL : USA. NIOSH Recommended Exposure Limits  
 OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)  
 OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants  
 US WEEL : USA. Workplace Environmental Exposure Levels (WEEL)  
 ACGIH / C : Ceiling limit  
 NIOSH REL / C : Ceiling value not be exceeded at any time.  
 OSHA P0 / TWA : 8-hour time weighted average  
 OSHA Z-1 / TWA : 8-hour time weighted average  
 US WEEL / TWA : 8-hr TWA

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 -



	Page: 17
<b>SAFETY DATA SHEET</b>	Revision Date: 06/30/2022
	Print Date: 08/01/2022
	SDS Number: 000000255222
Biosperse™ CN4200 MICROBIOCIDES ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 857805	Version: 3.0

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.

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