		Page: 1
SAFETY DATA SHEET		Revision Date: 03/01/2018
		Print Date: 5/2/2018
		SDS Number: 000000264438
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289		Version: 1.6

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Biosperse™ CX9989
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 : Industrial chemical

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	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 29 CFR 1910.1200

Oxidizing solids : Category 1

Combustible Dust

Acute toxicity (Oral) : Category 4

Skin corrosion : Category 1A

Serious eye damage : Category 1

Skin sensitisation : Category 1


GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : H271 May cause fire or explosion; strong oxidizer.
May form combustible dust concentrations in air.

		Page: 2
SAFETY DATA SHEET		Revision Date: 03/01/2018
		Print Date: 5/2/2018
		SDS Number: 000000264438
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289		Version: 1.6

H302 Harmful if swallowed.
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 should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P283 Wear fire/ flame resistant/ retardant clothing.

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.
P306 + P360 IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
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.
P371 + P380 + P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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

		Page: 3
SAFETY DATA SHEET		Revision Date: 03/01/2018
		Print Date: 5/2/2018
		SDS Number: 000000264438
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289		Version: 1.6

Substance / Mixture : Substance
 CAS-No. : Not Assigned

Hazardous components

Chemical name	CAS-No.	Classification	Concentration (%)
BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE	32718-18-6	Ox. Sol. 1; H271 Acute Tox. 4; H302 Skin Corr. 1A; H314 Eye Dam. 1; H318 Skin Sens. 1; H317	>= 90 - <= 100

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.
 Take victim immediately to hospital.
 If not breathing, give artificial respiration.
 Call a physician or poison control centre immediately.

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 : Take off contaminated clothing and shoes immediately.
 Wash off immediately with plenty of water for at least 15 minutes.
 Wash contaminated clothing before re-use.

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 : Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.
 Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.

In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 Continue rinsing eyes during transport to hospital.

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDE
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 869289

Remove contact lenses.
 Protect unharmed eye.

If swallowed : If swallowed, call a poison control centre or doctor immediately.
 Rinse mouth with water.
 If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel.
 Never give anything by mouth to an unconscious person.

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)
 May cause an allergic skin reaction.
 Causes serious eye damage.
 Causes severe burns.
 corrosive effects
 Irritating to respiratory system.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 Harmful if swallowed.
 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.
 Probable mucosal damage may contraindicate the use of gastric lavage.
 There is no specific antidote available.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray
 Carbon dioxide (CO2)
 Dry powder
 Water may be ineffective.

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Carbon dioxide (CO2)
 Dry chemical

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDE
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 869289

- Unsuitable extinguishing media : Dry chemical

High volume water jet
- Specific hazards during firefighting : Organic dusts at sufficient concentration can form explosive mixtures in air.
 Substance is an oxidizer that will cause moderate increase in the burning rate of combustible materials with which it comes into contact.
 May release toxic, irritating and/or corrosive gases.
 Cool closed containers exposed to fire with water spray.

Organic dusts at sufficient concentration can form explosive mixtures in air.
 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 : Carbon monoxide
 Carbon dioxide (CO₂)
 Nitrogen oxides (NO_x)
 hydrogen bromide
 Hydrogen chloride gas

Carbon monoxide
 Carbon dioxide (CO₂)
 Bromine
 Chlorine
 Nitrogen oxides (NO_x)
- 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 : Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

Fight fire remotely due to the risk of explosion.
 In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Evacuate area.
 Use personal protective equipment.
 Avoid dust formation.
 Avoid breathing dust.

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDE
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 869289

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).
 Evacuate personnel to safe areas.
 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. Keep away from combustible material.
 Provide appropriate exhaust ventilation at places where dust is formed.

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 contact with skin and eyes.
 Keep container closed when not in use.

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.

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDE
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 869289

Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Do not store near extreme heat, open flame, or sources of ignition.
 Store below 27 degrees C (80 degrees F) in original container. Store out of direct sunlight away from incompatible and combustible materials.

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.
 Prevent unauthorized access.
 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

Filter type : Combined inorganic gas/vapour and organic vapour type

Hand protection

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

Eye protection : Safety glasses

Skin and body protection : To prevent skin contact, wear impervious full-body protective clothing.
 Wear resistant gloves (consult your safety equipment supplier).
 Wear as appropriate:
 Chemical resistant apron
 Safety shoes
 Dust impervious protective suit
 Flame-resistant clothing

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDE
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 869289

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 :
- 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.
 - Do not smoke.
 - 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 : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/range : Not applicable
- Boiling point/boiling range : Not applicable
- Flash point : Not applicable
- Evaporation rate : Not applicable
- Flammability (solid, gas) : No data available
- Self-ignition : No data available
- : No data available
- Upper explosion limit : No data available
- : No data available
- Lower explosion limit : No data available
- : No data available
- Vapour pressure : 0.00935 Pa (25 °C)

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDES
 ™ Trademark, Solenis or its subsidiaries or affiliates,
 registered in various countries
 869289

Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	1.8 - 2.0 g/cm ³
Solubility(ies)	:	
Water solubility	:	0.22 g/0.1l (25 °C)
Solubility in other solvents	:	2.5 g/100g (25 °C) Solvent: Benzene
	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: < 1 pH: 5 - 9
Decomposition temperature	:	160 °C
Viscosity	:	
Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available
Minimum explosible dust concentration	:	Dust may form a weak explosive mixture with air, but it is considered insensitive to ignition from electrostatic discharges.
Dust explosion class	:	St1

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No dangerous reaction known under conditions of normal use. No decomposition if stored and applied as directed.
Chemical stability	:	Stable under normal conditions. Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Product will not undergo hazardous polymerization.
Conditions to avoid	:	Exposure to moisture Avoid contact with combustible material (paper, wool, oil). Heat Keep away from heat, flame, sparks and other ignition sources. Exposure to moisture Exposure to light.

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDE
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
869289

Incompatible materials : Combustible, organic, or other readily oxidizable materials (paper, wood, sulfur, aluminum, plastics, etc.); corrosive to metals
Bases
Acids
Oxidizing agents
Reducing agents

Hazardous decomposition products : **Carbon monoxide**
Carbon dioxide (CO₂)
Bromine
Chlorine
Nitrogen oxides (NO_x)
hydrogen bromide
Hydrogen chloride gas

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Harmful if swallowed.

Product:

Acute oral toxicity : LD50 (Rat): 929 mg/kg

Components:**BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE:**

Acute oral toxicity : LD 50 (Rat): 929 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:Remarks: **May cause skin irritation in susceptible persons.**
Causes severe skin burns and eye damage.**Components:****BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE:**


Result: Corrosive

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: May cause irreversible eye damage.

	Page: 11
SAFETY DATA SHEET	Revision Date: 03/01/2018
	Print Date: 5/2/2018
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289	SDS Number: 000000264438 Version: 1.6

Components:

BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE:

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:

BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE:

Germ cell mutagenicity

Not classified based on available information.

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.

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

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDE
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
869289

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.4 mg/l
Exposure time: 96 h
Test Type: static test

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0.75 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:**BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE:**

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 0.4 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC 50 (Water flea (Daphnia magna)): 0.75 mg/l
aquatic invertebrates Exposure time: 48 h

Ecotoxicology Assessment

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


Chronic aquatic toxicity : Chronic aquatic toxicity Category 1; Very toxic to aquatic life
with long lasting effects.

Persistence and degradability**Components:****BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE:**

Biodegradability : Result: Readily biodegradable.
Remarks: Readily biodegradable

Bioaccumulative potential**Components:****BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE:**

Partition coefficient: n- : log Pow: 0.35
octanol/water

		Page: 13
SAFETY DATA SHEET		Revision Date: 03/01/2018
		Print Date: 5/2/2018
		SDS Number: 000000264438
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289		Version: 1.6

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 : Deposit in a landfill in accordance with local, state and federal regulations.
 Destroy by incineration in accordance with applicable regulations.
 Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Dispose of in accordance with all applicable local, state and federal regulations.

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.

Contaminated packaging : Bury when empty.

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 transport regulations

REGULATION

SAFETY DATA SHEET	Revision Date: 03/01/2018
	Print Date: 5/2/2018
	SDS Number: 000000264438
Version: 1.6	
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289	

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

U.S. DOT - ROAD

UN	3085	Oxidizing solid, corrosive, n.o.s. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III
----	------	---	-----	-----	-----

U.S. DOT - RAIL

UN	3085	Oxidizing solid, corrosive, n.o.s. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III
----	------	---	-----	-----	-----

U.S. DOT - INLAND WATERWAYS

UN	3085	Oxidizing solid, corrosive, n.o.s. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III
----	------	---	-----	-----	-----

TRANSPORT CANADA - ROAD

UN	3085	OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III
----	------	--	-----	-----	-----

TRANSPORT CANADA - RAIL

UN	3085	OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III
----	------	--	-----	-----	-----

INTERNATIONAL MARITIME DANGEROUS GOODS

UN	3085	OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III	MARINE POLLUTANT:(BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)
----	------	--	-----	-----	-----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

SAFETY DATA SHEET

Revision Date: 03/01/2018

Print Date: 5/2/2018

SDS Number: 000000264438

Version: 1.6

Biosperse™ CX9989 MICROBIOCIDES
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries
869289

UN	3085	Oxidizing solid, corrosive, n.o.s. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III
----	------	---	-----	-----	-----

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN	3085	Oxidizing solid, corrosive, n.o.s. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III
----	------	---	-----	-----	-----

MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES

UN	3085	OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMOCHLORO-5,5-DIMETHYLIMIDAZOLIDINE-2,4-DIONE)	5.1	(8)	III
----	------	--	-----	-----	-----

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	yes
------------------	-----

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

Ship Type: Not applicable
Hazard code(s): Not applicable
Pollutant Category: Not applicable

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 : Combustible Dust
Oxidiser (liquid, solid or gas)

		Page: 16
SAFETY DATA SHEET		Revision Date: 03/01/2018
		Print Date: 5/2/2018
		SDS Number: 000000264438
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289		Version: 1.6

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

- 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

8622-30-74655


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:

Corrosive., Causes irreversible eye damage and skin burns., Eye contact may cause loss of vision., Harmful if inhaled., Irritating to nose and throat, Harmful if absorbed through the skin or swallowed.

TSCA list

No substances are subject to a Significant New Use Rule.

SECTION 16. OTHER INFORMATION

		Page: 17
SAFETY DATA SHEET		Revision Date: 03/01/2018
		Print Date: 5/2/2018
		SDS Number: 000000264438
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289		Version: 1.6

Further information

Revision Date: 03/01/2018

Full text of other abbreviations

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

	Page: 18
SAFETY DATA SHEET	Revision Date: 03/01/2018
	Print Date: 5/2/2018
	SDS Number: 000000264438
Biosperse™ CX9989 MICROBIOCIDE ™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries 869289	Version: 1.6

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