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1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Biosperse™ 250
MICROBIOCIDE
™ Trademark, Solenis or its subsidiaries or affiliates,
registered in various countries

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet Solenis Singapore Pte Ltd #07-01/02 Pantech 21 Singapore 128388 Singapore EHSProductSafetyTeam@solenis.com	Emergency telephone number 001 800-7653-6472 , or contact your local emergency telephone number at 995 Product Information +65 6775 5366
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2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion/irritation : Category 1
Skin sensitisation : Category 1
Chronic aquatic toxicity : Category 2

GHS Label element

Hazard pictograms : 

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of
the workplace.
P273 Avoid release to the environment.

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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): Remove/ 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 or doctor/ physician.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration (%)
MAGNESIUM NITRATE ANHYDROUS	10377-60-3		2,24
Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE	55965-84-9		1,49
CUPRIC (II) NITRATE ANHYDROUS	3251-23-8		0,19

4. FIRST AID MEASURES

General advice : Move out of dangerous area.
 Show this safety data sheet to the doctor in attendance.
 Do not leave the victim unattended.

If inhaled : Move to fresh air.

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IF INHALED: Call a POISON CENTER or doctor/ physician 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 : Immediately flush eye(s) with plenty of water.
 Remove contact lenses.
 Protect unharmed eye.
- If swallowed : 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.
- Notes to physician : No hazards which require special first aid measures.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
 Water spray
 Foam
 Carbon dioxide (CO₂)
 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 : Nitrogen oxides (NO_x)
 carbon dioxide and carbon monoxide

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hydrogen chloride
 Sulphur oxides
 acid vapors
 Chlorine
 chlorine oxide


- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Product is compatible with standard fire-fighting agents.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
 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.
- 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 : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
 Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.
 Provide sufficient air exchange and/or exhaust in work rooms.
 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

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regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
 Containers which are opened must be carefully resealed and kept upright to prevent leakage.
 Electrical installations / working materials must comply with the technological safety standards.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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.

Hand protection

Remarks

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

Eye protection

: Wear chemical splash goggles and face shield 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
 Safety shoes
 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.
 When using do not smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid
 Colour : green
 Odour : No data available

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Odour Threshold	: No data available
pH	: +/- 0.34 2,3
Melting point/freezing point	: No data available
	: 100 °C (1.013,333333 hPa) Calculated Phase Transition Liquid/Gas
Boiling point/boiling range	
Flash point	: > 100 °C
Evaporation rate	: < 1
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: 23,3333333 hPa (20 °C) Calculated Vapor Pressure
Relative vapour density	: No data available
Relative density	: No data available
Density	: +/- 0.01 1,01 g/cm3
Solubility(ies)	
Water solubility	: completely miscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Thermal decomposition	: No data available
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Oxidizing properties	: No data available

10. STABILITY AND REACTIVITY

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: Stable under recommended storage conditions.

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Possibility of hazardous reactions : Product will not undergo hazardous polymerization.

Incompatible materials : Dimethylformamide
 Metals
 Organic materials
 Strong oxidizing agents

Hazardous decomposition products : acid vapors
 carbon dioxide and carbon monoxide
 Chlorine
 chlorine oxide
 hydrogen chloride
 Nitrogen oxides (NO_x)
 Sulphur oxides

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate : > 2.000 mg/kg
 Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate : > 20 mg/l
 Exposure time: 4 h
 Test atmosphere: vapour
 Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate : > 2.000 mg/kg
 Method: Calculation method

Components:**MAGNESIUM NITRATE ANHYDROUS:**

Acute oral toxicity : LD 50 (Rat): 5.440 mg/kg

Acute dermal toxicity : LD 50 (Rat): > 5.000 mg/kg
 Remarks: Information given is based on data obtained from similar substances.

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Acute oral toxicity : LD 50 (Rat): 49,6 - 75 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 0,33 mg/l
 Exposure time: 4 h
 Remarks: Aerosol

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Acute dermal toxicity : LD 50 (Rabbit): 141 mg/kg

CUPRIC (II) NITRATE ANHYDROUS:

Acute oral toxicity : LD 50 (Rat): 794 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Components:**MAGNESIUM NITRATE ANHYDROUS:**

Result: Slightly irritating to skin

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Species: Rabbit

Result: Corrosive to skin

CUPRIC (II) NITRATE ANHYDROUS:

Result: Irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:**MAGNESIUM NITRATE ANHYDROUS:**

Result: Slightly irritating to eyes

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Species: Rabbit

Result: Corrosive to eyes

CUPRIC (II) NITRATE ANHYDROUS:

Result: Severely irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components:**Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE:**

Assessment: May cause sensitization by skin contact.

Result: May cause sensitization by skin contact.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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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

12. ECOLOGICAL INFORMATION
Ecotoxicity

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Toxicity to fish : LC 50 (Oncorhynchus mykiss (rainbow trout)): 0,19 mg/l
 Exposure time: 96 h

LC 50 (Lepomis macrochirus (Bluegill sunfish)): 0,28 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 0,16 mg/l
 Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,027 mg/l
 Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

Toxicity to bacteria : EC 50 (activated sludge): 4,5 mg/l
 Test Type: Respiration inhibition


CUPRIC (II) NITRATE ANHYDROUS:

Toxicity to fish : LC 50 (Bluegill (Lepomis macrochirus)): 0,62 mg/l
 Exposure time: 96 h
 Test Type: flow-through test

LC 50 (Zebra danio (Danio rerio)): 0,17 - 0,26 mg/l
 Exposure time: 72 h
 Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Water flea (Daphnia magna)): 0,04 - 0,06 mg/l
 Exposure time: 24 h
 Test Type: static test

M-Factor (Acute aquatic toxicity) : 10

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toxicity)

M-Factor (Chronic aquatic toxicity) : 1

Persistence and degradability

Mixture of 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE and 2-METHYL-4-ISOTHIAZOLIN-3-ONE:

Biodegradability : Biodegradation: 30 %
Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Not readily biodegradable.

Bioaccumulative potential

CUPRIC (II) NITRATE ANHYDROUS:

Bioaccumulation : Species: Carp (Cyprinus carpio)
Bioconcentration factor (BCF): 1.460,7
Exposure time: 28 d
Concentration: 0,028 mg/l
Method: Renewal

Mobility in soil

No data available

Other adverse effects

No data available

Product:

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

13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : 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 : 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.

14. TRANSPORT INFORMATION

International transport regulations

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REGULATION

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

INTERNATIONAL MARITIME DANGEROUS GOODS

UN 3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)	8		II	
---------	--	---	--	----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

UN 3265	Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)	8		II	
---------	--	---	--	----	--

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

UN 3265	Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)	8		II	
---------	--	---	--	----	--

CHINA - ROAD

UN 3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)	8		II	
---------	--	---	--	----	--

CHINA - RAIL

UN 3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)	8		II	
---------	--	---	--	----	--


CHINA - INLAND WATERWAYS

UN 3265	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)	8		II	
---------	--	---	--	----	--

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	yes
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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.

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Workplace Safety and Health Act and Workplace Safety and Health (General Provisions) Regulations: This product is subjected to the SDS, labelling, PEL and other requirements in the Act/Regulations.

Singapore. Hazardous Substances Control List (Environmental Pollution Cont Substances) : Neither banned nor restricted

Singapore. CWC. Chemical Weapons (Prohibition) Act, (Schedule, Parts 1-3) as amended : Neither banned nor restricted

Singapore. Explosive Precursors (Arms and Explosives Act, Second Schedule, 2003 Revision, as amended) : Neither banned nor restricted

Singapore. Hazardous Substances Transport, Storage & Use Permissions (Environmental Protection and Management (Hazardous Substances) Regulations) : Neither banned nor restricted

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

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

DSL : All components of this product are on the Canadian DSL.

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

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

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

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

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

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


Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECL (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

16. OTHER INFORMATION

Further information

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Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population


LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

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OEL : Occupational Exposure Limit
 P-Statement : Precautionary Statement
 PBT : Persistent , Bioaccumulative and Toxic
 PPE : Personal Protective Equipment
 STEL : Short-term exposure limit
 STOT : Specific Target Organ Toxicity
 TLV : Threshold Limit Value
 TWA : Time-weighted average
 vPvB : Very Persistent and Very Bioaccumulative
 WEL : Workplace Exposure Level

AU OEL : Australia. Workplace Exposure Standards for Airborne Contaminants.
 CN OEL : China. Occupational Exposure Limits
 HK OEL : Hong Kong. Code of Practice on Control of Air Impurities (Chemical Substances) in the Workplace
 IN OEL : India. Permissible levels of certain chemical substances in work environment.
 ID OEL : Indonesia. Occupational Exposure Limits
 JPJSOH OEL : Japan. The Japan Society for Occupational Health. Recommendation of Occupational Exposure Limits
 JPISHL OEL : Japan. Administrative Control Levels
 KOR OEL : Korea. Occupational Exposure Limits
 MY OEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health)
 NZ OEL : New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
 PH OEL : Philippines. Threshold Limit Values For Airborne Contaminants
 SG OEL : Singapore. Workplace Safety and Health Act - First Schedule Permissible Exposure Limits of Toxic Substances
 TW OEL : Taiwan. Standards on the Concentration Levels of Hazardous Substances in the Air at Workplace
 TH OEL : Thailand. Occupational Exposure Limits
 VN OEL : Vietnam. Occupational Exposure Limits