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SAFETY DATA SHEET		Revision Date: 29.01.2009
		Print Date: 02.06.2011
Biosperse™ 261T MICROBIOCID		MSDS Number: 000000081515
		Version: 1.2

Conforms to Regulation (EU) No. 1907/2006 - MSDS_NL

Conforms to Regulation (EU) No. 1907/2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Ashland P.O. Box 8619 NL3009 AP, Rotterdam The Netherlands EUSMT@ashland.comEUSMT@ashland.com	Emergency telephone +1-800-ASHLAND (+1-800-274-5263/+1-606-329-5701) , or contact your local emergency telephone number at 112, or contact your local emergency telephone number at 112, or contact your local emergency telephone number at 112, or contact your local emergency telephone number at 112, or contact your local emergency telephone number at 112 Product Information +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person
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Ashland P.O. Box 8619 NL3009 AP, Rotterdam +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person
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Product name	Biosperse™ 261T MICROBIOCID
Product code	326132
Product Use Description	Biocidal product, Water treatment chemical

2. HAZARDS IDENTIFICATION

Hazard Summary	Corrosive, Dangerous for the environment
Risks	Harmful if swallowed., Contact with acids liberates toxic gas., Causes burns., Very toxic to aquatic organisms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Components	CAS-No.	EINECS-No.	Concentration	Symbol(s)	R-phrases
Bromochloro-5,5-dimethylimidazolidine-2,4-dione	32718-18-6	251-171-5	>=90 - <=100%	C, N	R22, R31, R34, R50

For the full text of the R-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General Information

Move out of dangerous area. Get medical attention immediately. Do not leave the victim unattended. Consult a physician. Show this safety data sheet to the doctor in attendance.

Eyes

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention. Remove contact lenses.

Skin

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.

Ingestion

Do NOT induce vomiting. Rinse mouth with water. If conscious, drink plenty of water. Never give anything by mouth to an unconscious person. Obtain medical attention.

Inhalation

Move to fresh air. Call a physician or poison control centre immediately. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. In case of shortness of breath, give oxygen. If breathing is irregular or stopped, administer artificial respiration.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

ABC powder, Water mist

Unsuitable extinguishing media

no data available

Hazardous combustion products

Bromine, Chlorine, hydrogen bromide, hydrogen chloride carbon dioxide and carbon monoxide

Thermal decomposition

no data available

Precautions for fire-fighting

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Do not allow run-off from fire fighting to enter drains or water courses. Keep containers and surroundings cool with water spray. Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Personal protective equipment

In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Wear respiratory protection. Avoid breathing dust. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

Methods for cleaning up

Neutralize with chalk, alkali solution or ammonia. Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Other information

Comply with all applicable federal, state, and local regulations.

7. HANDLING AND STORAGE

Handling

Do not breathe vapours/dust. For personal protection see section 8. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding of the given occupational exposure limits (see section 8). Smoking, eating and drinking should be prohibited in the application area. Ensure all equipment is electrically grounded before beginning transfer operations. Take measures to prevent the build up of electrostatic charge. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Storage

Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Stable under recommended storage conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

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General advice

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities. These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities. Keep away from food, drink and animal feedstuffs. When using do not eat, drink or smoke. Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure controls

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects).

Eye protection

Face-shield

Skin and body protection

Wear as appropriate:

Safety shoes

impervious clothing

Chemical resistant apron

Discard contaminated shoes.

Wear resistant gloves such as:

Polyvinyl alcohol or nitrile- butyl-rubber gloves

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

In the case of dust or aerosol formation use respirator with an approved filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	solid
Form	tablet
Colour	white
Odour	slight chlorine
Boiling point/boiling range	no data available
Melting point/range	no data available
pH	3.5
Flash point	, no data available
Evaporation rate	(<) 1 (n-Butyl Acetate)

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Lower explosion limit/Upper explosion limit	no data available
Vapour pressure	
Vapour density	(>) 1 (AIR=1)
Density	no data available
Solubility	Water negligible
Partition coefficient: n-octanol/water	no data available
log Pow	0.35
Autoignition temperature	no data available
Viscosity, dynamic	no data available
Viscosity, kinematic	no data available

10. STABILITY AND REACTIVITY

Stability

Stable under recommended storage conditions.

Conditions to avoid

None known.

Incompatible products

Avoid contact with: Ammonia, Organic materials, Reducing agents, calcium hypochlorite, strong alkalis, urea

Hazardous decomposition products

Bromine, Chlorine, hydrogen bromide, hydrogen chloride carbon dioxide and carbon monoxide

Hazardous reactions

Hazardous polymerisation does not occur. Dust may form explosive mixture in air.

11. TOXICOLOGICAL INFORMATION

Routes of exposure

Skin contact, Eye Contact, Ingestion

Eye contact

May cause irreversible eye damage.

Skin contact

Causes skin burns.

Ingestion

Harmful if swallowed.

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Inhalation

Not known to be harmful if inhaled.

Aggravated Medical Condition

no data available

Symptoms

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), Lung irritation, damage to the mouth, throat, and/or airways, shock, Convulsions, coma

Target Organs

no data available

Component data

Acute oral toxicity

Bromochloro-5,5-dimethylimidazolidine-2,4-dione LD 50 Rat: 1,500 mg/kg

Acute inhalation toxicity

Bromochloro-5,5-dimethylimidazolidine-2,4-dione no data available

Acute dermal toxicity

Bromochloro-5,5-dimethylimidazolidine-2,4-dione no data available

12. ECOLOGICAL INFORMATION

Product information

Aquatic toxicity

96 h LC 50 Oncorhynchus mykiss (rainbow trout) static test: 0.87 mg/l

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

48 h LC 50 Daphnia magna (Water flea) static test: 0.48 mg/l

Environmental fate and pathways

Biodegradation

no data available

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Bioaccumulation

The bioaccumulation potential cannot be determined.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

Dispose of in accordance with the European Directives on waste and hazardous waste. Do not contaminate ponds, waterways or ditches with chemical or used container. Container hazardous when empty. Dispose of in accordance with local regulations.

Empty 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.

European Waste Catalogue

The Waste code should be assigned in discussion between the user and the waste disposal company.

14. TRANSPORT INFORMATION

ADR

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

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

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

UN	3085	OXIDIZING SOLID, CORROSIVE, N.O.S. (BROMO CHLORO DIMETHYLHYDANTOIN)	5.1	(8)	II
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INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

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

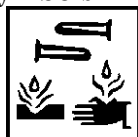
Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment. Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or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

15. REGULATORY INFORMATION

Product Use Description

no data available

Hazard symbols



Corrosive



Dangerous for the environment

R-phrases(s)

R22 Harmful if swallowed.
R31 Contact with acids liberates toxic gas.
R34 Causes burns.
R43 May cause sensitization by skin contact.
R50 Very toxic to aquatic organisms.

S-phrases(s)

S21 When using do not smoke.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of water.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S60 This material and its container must be disposed of as hazardous waste.
S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Contains

Bromochloro-5,5-dimethylimidazolidine-2,4-dione	CAS 32718-18-6
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16. OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R22	Harmful if swallowed.
R31	Contact with acids liberates toxic gas.
R34	Causes burns.
R50	Very toxic to aquatic organisms.

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 Ashland's Environmental Health and Safety Department (+31 10 497 5000).