

Anthium Dioxcide®

Version 2.0

Revision Date 12/04/2009

Ref. 130000000268

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name MSDS Number Anthium Dioxcide® 130000000268

Product Use

: Biocides

Manufacturer

International Dioxcide, Inc., A DuPont Subsidiary, 40 Whitecap Drive, North

Kingstown, RI 02852

Product Information

1-800-441-7515 (outside the U.S. 1-302-774-1000)

Transport Emergency

CHEMTREC: 1-800-424-9300 (outside the U.S. 1-703-527-3887)

Other information

professional use

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin

Sodium chlorite

: May irritate skin.

Eyes

Sodium chlorite

May irritate eyes.

Inhalation

Sodium chlorite

Respiratory irritation

Ingestion

Sodium chlorite

Gastrointestinal discomfort

Carcinogenicity

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No.	Concentration
Sodium chlorite	7758-19-2	5 - 10 %
Water	7732-18-5	90 - 95 %

SECTION 4. FIRST AID MEASURES

Skin contact

: Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water. Call a poison control center or doctor for treatment

advice.

Eye contact

: Rinse immediately with plenty of water and seek medical advice.

Inhalation

: Move to fresh air. If not breathing, give artificial respiration. Call a poison

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control center or doctor for treatment advice.

Ingestion

: Call a poison control center or doctor for treatment advice. Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person.

Notes to physician

: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIRE-FIGHTING MEASURES

Flammable Properties

Flash point

: does not flash

Thermal decomposition

: Stable under normal conditions., Decomposes on heating.

Fire and Explosion Hazard

: Drying of this product on clothing or combustible materials may cause fire.

Suitable extinguishing media

: Water

Firefighting Instructions

: Wear self-contained breathing apparatus (SCBA). Wear suitable protective

equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Safeguards (Personnel)

: Evacuate personnel to safe areas.

Spill Cleanup

: Dilute with water. Pick up and transfer to properly labelled containers. After

cleaning, flush away traces with water.

Accidental Release Measures

Prevent material from entering sewers, waterways, or low areas. Do not allow

to dry.

SECTION 7. HANDLING AND STORAGE

Handling (Personnel)

: Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.

Handling (Physical Aspects)

: Avoid letting the product become dry.

Storage

: Keep tightly closed in a dry, cool and well-ventilated place. Keep away from food, drink and animal feedingstuffs. Avoid heat, freezing and ultraviolet light. Do not allow to dry. Keep away from: Strong acids and oxidizing agents

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Respiratory protection Where there is potential for airborne exposures in excess of applicable limits.

wear approved respiratory protection with dust/mist cartridge.

Hand protection : Additional protection: Impervious gloves

Eye protection Wear coverall chemical splash goggles. Additionally wear a face shield where

the possibility exists for face contact due to splashing, spraying or airborne

contact with this material.

Skin and body protection : Where there is potential for skin contact, have available and wear as

appropriate, impervious gloves, apron, pants, jacket, hood and boots.

Protective measures : Avoid exposure - obtain special instructions before use. Wear suitable gloves

and eye/face protection.

Exposure Guidelines
Exposure Limit Values

None established.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : liquid Color : light yellow

Odor : odourless, slight chlorine

pH : 9.0 - 9.2

Crystallization temperature : ca. -5 $^{\circ}$ C (23 $^{\circ}$ F) Freezing point : ca. -10 $^{\circ}$ C (14 $^{\circ}$ F) Boiling point : ca. 105 $^{\circ}$ C (221 $^{\circ}$ F)

Specific Gravity : 1.065 - 1.095 at 20 ℃ (68 ℉)

Water solubility : completely soluble

SECTION 10. STABILITY AND REACTIVITY

Stability

Stable at normal temperatures and storage conditions.

Decomposes on heating.

Incompatibility : Strong acids and oxidizing agents Organic materials chlorinated compounds

Reducing agents

Hazardous decomposition

products

: , Chlorine , Chlorine dioxide (solution)

Hazardous reactions : Contact with acids, organic materials, reducing agents and oxidizing agents

will release toxic gases of chlorine and/or chlorine dioxide.

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SECTION 11. TOXICOLOGICAL INFORMATION

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Inhalation 4 h LC50

> 6.53 mg/l, rat

Dermal LD50

: > 2,000 mg/kg , rat

Oral LD50

1,075 mg/kg, rat

Skin irritation

irritating

Eye irritation

Eye irritation

Sodium chlorite

Repeated dose toxicity

Oral, rat

Abnormal decrease in number of red blood cells, Abnormal decrease

in red -blood -ceil haemoglobin (hemoglobinemia)

Oral, rat

Organ weight changes, Liver

Oral, Monkey Thyroid effects

Carcinogenicity

: Animal testing did not show any carcinogenic effects.

Mutagenicity

Did not cause genetic damage in cultured mammalian cells.

Reproductive toxicity

Animal testing showed effects on reproduction at levels equal to or

above those causing parental toxicity.

Teratogenicity

Animal testing showed effects on embryo-foetal development at levels

equal to or above those causing maternal toxicity.

SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Sodium chlorite

96 h LC50

: Cyprinodon variegatus (sheepshead minnow) 75 mg/l

96 h EC50

Desmodesmus subspicatus (green algae) 1.32 mg/l

72 h ErC50

: Algae 1.2 mg/l

48 h EC50

Daphnia magna (Water flea) 0.0146 mg/l

Additional ecological information

: No data is available on the product itself.

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SECTION 13. DISPOSAL CONSIDERATIONS

Waste Disposal

: Treatment, storage, transportation, and disposal must be in accordance with

applicable federal, state/provincial, and local regulations.

Environmental Hazards

: Empty containers should be taken to an approved waste handling site for

recycling or disposal.

If recycling is not practicable, dispose of in compliance with local regulations.

SECTION 14. TRANSPORT INFORMATION

Not regulated in transportation by DOT/IMO/IATA.

SECTION 15. REGULATORY INFORMATION

TSCA Status

: Listed.

SARA 313 Regulated

Chemical(s)

: 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.

EPA Reg. No.

: 9150-2

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

California Prop. 65

Chemicals known to the State of California to cause cancer, birth defects or

any other harm: none known

NJ Right to Know Regulated Chemical(s) : Substances on the New Jersey Workplace Hazardous Substance List present

at a concentration of 1% or more (0.1% for substances identified as

carcinogens, mutagens or teratogens): Sodium chlorite

SECTION 16. OTHER INFORMATION

MSDS preparation date

: 12/04/2009

Contact person

MSDS Coordinator, DuPont Chemical Solutions Enterprise, Wilmington, DE

19898, (800) 441-7515

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,

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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.

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