

**Anthium 200**

Version 2.3

Revision Date 05/31/2012

Ref. 130000044350

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Anthium 200
MSDS Number	:	130000044350
Product Use	:	Biocides
Manufacturer	:	DuPont 1007 Market Street Wilmington, DE 19898
Product Information	:	1-800-441-7515 (outside the U.S. 1-302-774-1000)
Medical Emergency	:	1-800-441-3637 (outside the U.S. 1-302-774-1139)
Importer/Distributor	:	International Dioxide, Inc., A DuPont Subsidiary, 40 Whitecap Drive, North Kingstown, RI 02852
Telephone	:	
Other information	:	professional use

SECTION 2. HAZARDS IDENTIFICATION

Potential Health Effects

Skin

Sodium chlorite	:	May cause: Corrosion with pain, ulceration or blisters, cracking or peeling of skin.
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Eyes

Sodium chlorite	:	Corrosive, may cause permanent eye injury if not promptly treated. May cause:, Tearing, pain, redness, swelling, ulceration, visual impairment, or blindness..
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Inhalation

Sodium chlorite	:	Causes respiratory tract irritation. May cause:, Cough, sneezing, runny nose, sore throat, or shortness of breath..
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Repeated exposure

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Sodium chlorite : Adverse effects from repeated ingestion may include: Gastrointestinal effects Abnormal decrease in number of red blood cells (anaemia) which could produce tiredness, rapid heartbeat, dizziness, pale skin, leg cramps, shortness of breath altered blood chemistry

Target Organs
Sodium chlorite : Blood

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	2 - 5 %
Water	7732-18-5	95 - 98 %

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 control center or doctor for treatment advice.

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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. FIREFIGHTING MEASURES

Flammable Properties

Flash point : not applicable

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) : Wear personal protective equipment. Avoid contact with the skin and the eyes.

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.

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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

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
- Hand protection : Material: Polyvinyl chloride - PVC
- 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

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None established.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: liquid
Color	: light yellow
Odor	: odourless, slight chlorine
pH	: 9.0 - 9.5
Freezing point	: ca. -7 °C (19 °F)
Crystallization temperature	: ca. -2 °C (28 °F)
Boiling point	: ca. 101 °C (214 °F)
Density	: ca. 8.6 lb/gal
Specific gravity	: 1.024 - 1.034 at 20 °C (68 °F)
Water solubility	: miscible

SECTION 10. STABILITY AND REACTIVITY

Stability	: Stable at normal temperatures and storage conditions. Decomposes on heating.
Conditions to avoid	: Stable under normal conditions. Decomposes on heating.
Incompatibility	: Strong acids and oxidizing agents Organic materials, chlorinated compounds, Reducing agents
Hazardous decomposition products	: Hazardous decomposition products: Chlorine , Chlorine dioxide...%
Hazardous reactions	: Contact with acids, organic materials, reducing agents and oxidizing agents will release toxic gases of chlorine and/or chlorine dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION

Sodium chlorite	
Dermal LD50	: 134 mg/kg , rabbit
Oral LD50	: 284 mg/kg , rat

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Inhalation 4 h LC50	: 0.23 mg/l , rat
Skin irritation	: Corrosive, rabbit
Eye irritation	: Corrosive, rabbit
Skin sensitization	: Animal test did not cause sensitization by skin contact., guinea pig
Repeated dose toxicity	: Oral rat 1 y Target Organs: Blood Gastrointestinal effects, Abnormal decrease in number of red blood cells, Abnormal decrease in red -blood -cell haemoglobin (hemoglobinemia) Oral rat 14 d altered hematology, altered urinalysis results Oral Monkey altered hematology, altered blood chemistry
Carcinogenicity	: Animal testing did not show any carcinogenic effects.
Mutagenicity	: Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
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-fetal development at levels equal to or above those causing maternal toxicity.

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SECTION 12. ECOLOGICAL INFORMATION

Aquatic Toxicity

Sodium chlorite

96 h LC50 : Cyprinodon variegatus (sheepshead minnow) 105 mg/l

96 h ErC50 : Scenedesmus capricornutum (fresh water algae) 1 mg/l

48 h EC50 : Daphnia magna (Water flea) < 1.0 mg/l

96 h LC50 : Americamysis bahia (mysid shrimp) 0.65 mg/l

Environmental Fate

Sodium chlorite

Biodegradability : Readily biodegradable.

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 classified as dangerous in the meaning of transport regulations.

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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.	: 9150-3 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

Contact person : MSDS Coordinator, DuPont Chemicals and Fluoroproducts, Wilmington, DE 19898, (800) 441-7515

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