

## 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.  
Eyes  
Sodium chlorite : Corrosive, may cause permanent eye injury if not promptly treated. May cause:, Tearing, pain, redness, swelling, ulceration, visual impairment, or blindness..  
Inhalation  
Sodium chlorite : Causes respiratory tract irritation. May cause:, Cough, sneezing, runny nose, sore throat, or shortness of breath..  
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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