



## MATERIAL SAFETY DATA

MSDS No: 00228

Date: 06/20/2001

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: **XT<sup>+</sup> Polymer (All Grades)**

SYNONYMS: Acrylic multipolymer

CHEMICAL FAMILY: Acrylic polymer

MOLECULAR FORMULA: Mixture

MOLECULAR WGT: Mixture

USE: Acrylic polymer

MANUFACTURED BY: CYTEC INDUSTRIES INC., FIVE GARRET MOUNTAIN PLAZA,  
WEST PATERSON, NEW JERSEY 07424, USA - 973/357-3100

SUPPLIED BY: CYRO CANADA INC., 6285 NORTHAM DRIVE, SUITE 300,  
MISSISSAUGA, ONTARIO, CANADA L4V 1X5

EMERGENCY PHONE: For product emergency involving spill, leak, fire or accident call - In CANADA:  
1-905/356-8310, In USA: CHEMTREC 1-800/424-9300 or 1-703/527-3887.

Product Inquires: CYRO Canada 905/677-1388

+Trademark or registered Trademark of CYRO Industries

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

#### WHMIS REGULATED COMPONENTS

COMPONENT	CAS. NO.	%(w/w)	TWA/CEILING	REFERENCE
Titanium Dioxide	013463-67-7	0-4	15 mg/m <sup>3</sup> total 10 mg/m <sup>3</sup>	OSHA ACGIH
Barium sulfate	007727-43-7	0-2	5 mg/m <sup>3</sup> total 5 mg/m <sup>3</sup> respirable 10 mg/m <sup>3</sup>	OSHA ACGIH

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

APPEARANCE AND ODOR: 1/8" pellets; various colors; characteristic odor.

STATEMENTS OF HAZARD:

NO WARNING STATEMENT

#### POTENTIAL HEALTH EFFECTS

EFFECTS OF EXPOSURE:

Acute oral (rat) and dermal (rabbit) LD50 values are estimated to be greater than 5,000 mg/kg and greater than 2,000 mg/kg, respectively. The 4-hour inhalation LC50 (rat) value is estimated to be greater than 20 mg/L.

Overexposure to this material is not likely to cause significant acute toxic effects.

Overexposure to vapor generated during processing may cause irritation of the eyes, skin, or respiratory tract.

Refer to Section 11 for toxicology information on the regulated components of this product.

### 4. FIRST AID MEASURES

No specific first aid procedures are necessary for accidental exposure to this product.

Molten material may cause thermal burns. Get medical attention.

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## 5. FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES

FLASH POINT: Not applicable

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FLAMMABLE LIMITS

(% BY VOL): Not applicable

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AUTOIGNITION TEMP: 850 F; 454 C

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DECOMPOSITION TEMP: >500 F; 260 C

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MECHANICAL/STATIC SENSITIVITY: None

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### EXTINGUISHING MEDIA AND FIRE FIGHTING INSTRUCTIONS

Use water, carbon dioxide or dry chemical to extinguish fires. Wear self-contained, positive pressure breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep up spills and place in a waste disposal container. Flush area with water.

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## 7. HANDLING AND STORAGE

High temperatures (500 F) lead to non-violent decomposition, evolving methyl methacrylate. Large masses of molten polymer held at elevated temperatures (570-580 F) for extended periods of time may auto-ignite.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT (PPE)

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended. Where exposures are below the Permissible Exposure Limit (PEL), no respiratory protection is required. Where exposures exceed the PEL, use respirator approved by NIOSH for the material and level of exposure. See "GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION"(NIOSH).

Good enclosure and local exhaust ventilation should be provided to control exposure to vapors generated during processing at elevated temperatures. Cutting, grinding, or sanding of parts fabricated after using this material may create respirable dust particles. Respiratory protection appropriate for this dust may be required.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: 1/8" pellets; various colors; characteristic odor.

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BOILING POINT: Not applicable

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MELTING POINT: Not applicable

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VAPOR PRESSURE: Not applicable

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SPECIFIC GRAVITY: 1.11-1.12

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VAPOR DENSITY: Not applicable

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% VOLATILE (BY WT): Negligible

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pH: Not applicable

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SATURATION IN AIR (% BY VOL): Not applicable

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EVAPORATION RATE: Not applicable

SOLUBILITY IN WATER: Negligible

ODOR THRESHOLD: See section 2 for permissible exposure limits.

## 10. STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: None known

POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID: None known

INCOMPATIBLE MATERIALS: Strong oxidizing agents.

HAZARDOUS DECOMPOSITION/ COMBUSTION PRODUCTS: Thermal decomposition or combustion may produce carbon monoxide, carbon dioxide, methyl methacrylate, acrylonitrile, oxides of nitrogen and/or hydrogen cyanide.

## 11. TOXICOLOGICAL INFORMATION

Toxicological information for the product is found under Section 3. HAZARDS IDENTIFICATION. Toxicological information on the WHMIS regulated components of this product is as follows:

Acute overexposure to titanium dioxide dust is not likely to cause adverse effects. Chronic overexposure to titanium dioxide may cause some lung fibrosis. Inhalation of titanium dioxide dust at 50 times the nuisance dust level caused lung fibrosis and a slight increase in lung tumor incidence in laboratory rats. When titanium dioxide was fed to rats and mice over lifetime in a carcinogen bioassay, it was not carcinogenic.

Overexposure to barium sulfate is unlikely to cause significant acute toxic effects. Barium sulfate is considered to be an inert dust. Inhalation of barium sulfate can accumulate in the lungs (baritosis) with little or no physical disability.

## 12. ECOLOGICAL INFORMATION

No aquatic LC50, BOD, or COD data available.

OCTANOL/H<sub>2</sub>O PARTITION COEF.: Not applicable

## 13. DISPOSAL CONSIDERATIONS

Disposal must be made in accordance with applicable governmental regulations.

## 14. TRANSPORT INFORMATION

This section provides basic shipping classification information. Refer to appropriate transportation regulations for specific requirements.

	<b>TRANSPORT CANADA</b>	<b>ICAO/IATA</b>
SHIPPING NAME:	NOT APPLICABLE/NOT REGULATED	NOT APPLICABLE/NOT REGULATED
HAZARD CLASS:	Not Applicable	Not Applicable
SUBSIDIARY CLASS:	Not Applicable	Not Applicable
UN / ID NUMBER:	Not Applicable	Not Applicable
PACKING GROUP:	Not Applicable	Not Applicable
TRANSPORT LABEL REQUIRED:	None Required	None Required

PACKING INSTR:	Not Applicable	PASSENGER Not Applicable CARGO Not Applicable
MAX NET QTY:	Not Applicable	PASSENGER Not Applicable CARGO Not Applicable
<b>D.O.T. SHIPPING INFORMATION</b>		
SHIPPING NAME:	NOT APPLICABLE/NOT REGULATED	<b>IMO SHIPPING INFORMATION</b> NOT APPLICABLE/NOT REGULATED
HAZARD CLASS/ PACKING GROUP:	Not Applicable	Not Applicable
UN NUMBER:	Not Applicable	Not Applicable
IMDG PAGE:	Not Applicable	Not Applicable
D.O.T. HAZARDOUS SUBSTANCES:	(PRODUCT REPORTABLE QUANTITY) Not Applicable	Not Applicable
TRANSPORT LABEL REQUIRED:	None Required	None Required

**ADDITIONAL TRANSPORT INFORMATION**

TECHNICAL NAME (N.O.S.): Not Applicable

**15. REGULATORY INFORMATION**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and this Material Safety Data Sheet contains all the information required by the Controlled Products Regulations.

**WHMIS CLASSIFICATION:** NOT WHMIS CONTROLLED

**INVENTORY INFORMATION**

CANADA DSL: The Canadian Inventory status of this product is currently being evaluated.

US TSCA: This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C. 2601 et. seq.

EEC EINECS: The European Inventory status of this product is currently being evaluated.

**16. OTHER INFORMATION**

**NFPA HAZARD RATING (National Fire Protection Association)**

Fire	1	FIRE: Materials that must be preheated before ignition can occur.
Health	0	HEALTH: Materials that under emergency conditions, would offer no hazard beyond that of ordinary combustible materials.
Reactivity	0	REACTIVITY: Materials that in themselves are normally stable, even under fire exposure conditions.
Special	—	

**REASON FOR ISSUE:**

Area Code Change

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Cytec Industries Inc.: 973/357-3100

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