

HB CHEMICAL CORPORATION

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Date: Nov. 1, 2010
Replaces: Sept., 2005

MATERIAL SAFETY DATA SHEETS

SECTION I CHEMICAL and COMPANY IDENTIFICATION

PRODUCT: **TIO2 R-237**
CHEMICAL NAME: Rutile *Titanium Dioxide Dry powder*
COMMON/GENERIC NAME: None
CHEMICAL FAMILY:
DISTRIBUTOR: HB Chemical Company, Akron, OH; Customer Service 800-991-2436
Manufacturer: China
EMERGENCY NUMBERS: CHEMTREC 800-424-9300 CANUTEC(Canada) 613-996-6666

SECTION II COMPOSITION / INGREDIENT INFORMATION

		<u>OSHA PEL</u>	<u>ACGIH TLV</u>
COMPOSITION:	Titanium Dioxide	15 mg/m ³ TWA	10 mg/m ³ TWA
	C.A.S.#: 13463-67-7		
	Amorphous Silica	6 mg/m ³ TWA	10 mg/m ³ TWA
	CAS #: 7631-86-9		
	Aluminum Hydroxides	ND	ND
	CAS #: 21645-51-2		

SECTION III/IV HAZARDS / FIRST AID PROCEDURES

EMERGENCY OVERVIEW: A fine white powder, which can create nuisance dust conditions. Magnesium oxide will dehydrate skin and mucous membranes with prolonged exposure, but is not expected to cause any significant toxic effects.
EYE: Can be irritating to mucous membranes and eyes. Treat as for nuisance dust. Flush eyes with water for 15 min. Call a physician if irritation develops.
SKIN: May be mildly irritating to skin due to dehydration. Remove contaminated clothing and wash skin with soap and water.
INGESTION: If swallowed, may cause temporary upset stomach/diarrhea. If pain or purging persists, seek medical attention.
INHALATION: High dust concentration may be irritating to nose, throat, lungs and eyes. Remove to fresh air; give artificial respiration or oxygen if necessary.
TOXICITY: No significant adverse effects expected. Not considered toxic/hazardous.
CARCINOGENICITY: Not listed by NTP, IARC, ACGIH, Calif. Prop 65 or OSHA

IN ALL CASES OF EMERGENCY, CONTACT A PHYSICIAN

SECTION V FIRE AND EXPLOSION INFORMATION

FLASH POINT Not Applicable

FIRE-FIGHTING PROCEDURES: Titanium dioxide does not burn and is not generally considered a fire hazard.

HAZARDOUS COMBUSTION PRODUCTS: None

PROTECTIVE EQUIPMENT: None

Corporate Office:
140 E Ascot Lane
Cuyahoga Falls, OH 44223

Tel. 330-920-8023
Fax 330-920-0971

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SECTION VI SPILLS AND ENVIRONMENTAL INFORMATION

SPILL OR LEAK PRECAUTIONS: Wear appropriate protective clothing, gloves and equipment. Collect spilled material by sweeping up solid powder and disposing of according to local regulations for this type of product. Major spills should also be reported to the National Response Center. Spills with potential to contaminate coastal waterways must be reported to the U.S. Coast Guard (800-424-8802)

WASTE DISPOSAL: All containers should be effectively labeled to facilitate the appropriate disposal or reclaim.

SECTION VII HANDLING AND STORAGE

Store in sealed containers in dry, ambient temperature conditions

SECTION VIII EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION: Use only where sufficient ventilation exists to keep exposure levels of fumes and dust below recommended levels.

RESPIRATORY AND PERSONAL PROTECTION: Respirators should be selected when TWA exceeded. Safety glasses with side shields; gloves, boots and apron as appropriate.

FACILITIES: There should be a shower facility and eyewash in the building where this product is being stored and handled. Exercise good chemical handling practice.

SECTION IX PHYSICAL AND CHEMICAL INFORMATION

Appearance: Fine, white powder
Specific Gravity @25°C = 3.9
Vapor Pressure: Not Applicable
Solubility in Water: Slight

Evaporation Rate: Not Applicable
Melting Point: 1840°C
Viscosity cPs (25°C) = Solid

SECTION X STABILITY AND REACTIVITY

Under normal storage conditions, this product a) is stable; b) will not polymerize or exotherm; c) should be kept away from extreme heat, strong oxidizers and bases; d) this product decomposes under high temperature and hydrolyses in humid conditions.

SECTION XI TOXICOLOGICAL INFORMATION

Prolonged breathing of Titanium dioxide can lead to particulate deposition in the lungs, however, no adverse health effects have been shown.

SECTION XII ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Any available information show TiO₂ shows no adverse environmental effects and it does not bioaccumulate according to Millennium MSDS 5.12.

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SECTION XIII

DISPOSAL CONSIDERATIONS

Disposal into solid waste land-fill should be done in accordance with local regulations if recycling or reclaiming is not feasible.

SECTION XIV

TRANSPORTATION INFORMATION

DOT: Not regulated.

CANADA TRANSPORT HAZ.GOODS: Not regulated. WMHIS Label: F217

AIR (IATA/ICAO): Non-hazardous. Label: product tradename with chemical description.

INTERNATIONAL: IMO: Non-hazardous. Label: Product tradename and its chemical description.

US CUSTOMS: - HARMONIZED TARIFF CODE: 3206.11.0000

SECTION XV

REGULATORY INFORMATION

SARA TITLE III: - 311/312 CATEGORIES: Immediate (Acute) Health Hazard: Yes; All others: No

“ “ - 313 Reportable ingredients: None

CERCLA RQ: Not reportable.

OSHA: Hazardous

RCRA Status: Not known

CALIFORNIA PROP 65: Not regulated.

TSCA REGULATORY: All intentional ingredients are listed in the TSCA Inventory.

CANADA WHMIS HAZARD SYMBOL AND CLASS: Class D, Division 2B

CANADA INGREDIENT DISCLOSURE LIST: Does not contain any ingredients on the IDL. All intentional ingredients are on the DSL.

SECTION XVI OTHER INFORMATION

HMIS Label: Fire: 0
Health: 1
Reactivity: 0
Protection: E

Prepared: Nov, 2008

The information presented herein, while not guaranteed, was prepared by technically knowledgeable personnel and to the best of our knowledge is true and accurate. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other or additional considerations.

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