

HB Chemical Corporation

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SECTION V

FIRE AND EXPLOSION INFORMATION

FLASH POINT ND

FIRE-FIGHTING PROCEDURES: Use Chemical foam, CO₂, Dry Chemical, water fog.

HAZARDOUS COMBUSTION PRODUCTS: This product will decompose under extreme temperatures forming oxides of carbon as well as Aromatic hydrocarbons and nitrogen oxides. Harmful vapors may be liberated

PROTECTIVE EQUIPMENT: Full eye protection and protective clothing are required for all indoor/outdoor fires and spills.

Explosion Hazards: Dust suspended in air in critical proportions with a presence of an ignition source presents an explosion hazard.

Min. explosion concentration: NA

Min. ignition energy: na

Maximum rate of pressure rise: NA

Max. Pressure of explosion: NA

Explosion severity: NA

Volume resistivity: na

SECTION VI

SPILLS AND ENVIRONMENTAL INFORMATION

SPILL OR LEAK PRECAUTIONS: Wear appropriate protective clothing, gloves and equipment. Eliminate all sources of ignition. Contain spill. Transfer to secure containers and dispose of according to local and state regulations. Thought should always be given to collecting the material in such a manner that it could be recycled. Clean/scrub affected area with detergent. Prevent run-off into sewers or natural waterways. Spills in excess of the RQ must be reported to the local emergency response organizations. 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 (less than 110°F). Perform packaging in well-ventilated area wearing protective eye shields and clothing.

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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: Consideration to properly engineered explosion suppression should be considered when large amounts of product are handled. 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: yellowish/pink white prills/pwd
Specific Gravity @25°C = 1.10
Vapor Pressure: ND
Viscosity cPs (25°C) = ND

Evaporation Rate: < 1 (butyl acetate=1)
Melting Point: 175 C approx
Refractive Index 25°C: ND
Solubility in Water: Not soluble

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. Above 130 C material may become instable.

SECTION XI **TOXICOLOGICAL INFORMATION**

Routes of Entry: Eye, Inhalation and Ingestion and skin
Acute Dermal (Rat) no mortality in rat at 200 mg/kg
Acute Oral (rat): 134-263 mg/kg (LD50) - toxic

Eye irritation (rabbit) ó Moderate irritant
Skin irritation (rabbit) ó Non irritation
Acute Inhalation: risk to respiratory system

Remarks: Eye and skin tests on rabbits came back moderate and negative respectively

For Orthotoluidine:

This product contains less than 1000 ppm(0,1%) orthotoluidine which has the following regulations:
IARC Evaluation:

Ortho-toluidine is possibly carcinogenic to humans (Group 2B).

There is limited evidence in humans for the carcinogenicity of ortho-toluidine.

There is sufficient evidence in experimental animals for the carcinogenicity of ortho-toluidine.

NTP: NTP lists orthotoluidine as a reasonably anticipated to be a carcinogen.

OSHA and ACGIH: Exposure to orthotoluidine has been know to cause health problems with the liver, kidneys, blood and anoxia.

40 CFR 716.120(a): Orthotoluidine requires health and safety data reporting

Skin Exposure Limits:

OSHA of 22 ppm (TWA)

ACGIH skin exposure limit of 2 ppm (TWA).

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SECTION XII

ECOLOGICAL INFORMATION

This product has less 0.1% (1000 ppm) orthotoluidine. O-toluidine is listed in the following regulations:

Release reporting, 40 CFR 372.65(a)40 CFR 372.65(b)

RCRA Hazardous waste, identification and listing, 40 CFR 261.33(f)40 CFR 261.38 Table 140 CFR 261 Appx.

VII40 CFR 261 Appx. VIII, U-list U328

Superfund, reportable quantity, 40 CFR 302.4 Table, 100 lb. reportable quantity.

EPA priority chemical list under RCRA, 21 CRR text 77

SECTION XIII

DISPOSAL CONSIDERATIONS

Product should be disposed of in an EPA approved incinerator in accordance with all local, state, and/or federal regulations.

This product contains below 0.1% (1000 ppm) orthotoluidine which has the following regulations:

Release reporting, 40 CFR 372.65(a)40 CFR 372.65(b)

RCRA Hazardous waste, identification and listing, 40 CFR 261.33(f)40 CFR 261.38 Table 140 CFR 261 Appx.

VII40 CFR 261 Appx. VIII, U-list U328

Superfund, reportable quantity, 40 CFR 302.4 Table, 100 lb. reportable quantity.

EPA priority chemical list under RCRA, 21 CRR text 77

SECTION XIV

TRANSPORTATION INFORMATION

US DOT and Canada TDG Hazardous Material Description:

Toxic solid, organic, n.o.s. (Diorthotolylguanidine), 6.1, UN 2811, PG III, Net _____ lbs.

24 hour emergency contact: (800) 424-9300

IMDG:

Class: 6.1, Packaging group: III, UN Nr (IMDG): 6280-6, labeling: 6.1, Safety sheet: 6.1-04

IATA:

Class: 6.1, Packaging group: III, labeling: TOXIC, Passagers: Packaging instruction 619 (100 kg max by package), cargo: Packaging instruction 619 (200 kg net max by package)

SECTION XV

REGULATORY INFORMATION

TSCA: All ingredients listed on the TSCA inventory

Canadian DSL / NDSL: All ingredients listed.

This product contains lower than 0.1 % orthotoluidine which is listed in the following regulations:

Release reporting, 40 CFR 372.65(a)40 CFR 372.65(b)

RCRA Hazardous waste, identification and listing, 40 CFR 261.33(f)40 CFR 261.38 Table 140 CFR 261 Appx.

VII40 CFR 261 Appx. VIII, U-list U328

Superfund, reportable quantity, 40 CFR 302.4 Table, 100 lb. reportable quantity.

EPA priority chemical list under RCRA, 21 CRR text 77,

40 CFR 21 App VII Hazardous Constituents K112, K113, K114

Sara Title II Section 313 Toxic Chemicals 40 CFR 372.65

Clean Air Act Hazardous Air Pollutants 40 CFR part 61

CA Director's List of Hazardous Substance, 8 CCR Sec. 339

CA-OSHA Workplace Airborne Contaminants, 2 ppm TWA, 9 mg/cum TWA, 8 CCR Sec. 5155

CA State Superfund Hazardous Substance, Health and Safety Code, Sec. 25316

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CA Proposition 65 Carcinogens, 22 CCR Sec. 12000
CA Air Toxics Requiring Quantification (AB2588), 17 CCR Sec. 93300.5
CA Toxic Air Contaminants (AB 1907) List, 17 CCR Sec. 93000-93001
IL Hazardous Wastes, 35 IL Admin. Code, Sec. 700-870
IL Toxic Substance Disclosure to Employees List, 56 IL Admin. Code, Sec. 205; List: 56IAC Sec. 205, Table A
MA Substance List, 105 CMR 670.000 App. A
MI Critical Materials Register, MAC Sec. R 299.9001-9006
NJ Right-to-Know Hazardous Substances, ID# 1442
NY Hazardous Substance Bulk Storage List, 6 NRCRR part 597, RQ 100 lbs.
OH Emergency Response Law Toxic Chemicals
OH Hazardous Wastes
PA Hazardous Substances, 34 PC Sec. 301
TX Air Contaminants with Health Effects Screening Levels
TX Hazardous Wastes List, 31 Tex. Admin. Code, Section 335.1
Canada WHMIS: 0.1%

SECTION XVI OTHER INFORMATION

HMIS Label: Health: 2
 Fire: 1
 Reactivity: 0
 Protection: E

Prepared: April 2009

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. A good part of the information was gained from MLPC information through the Ekland DOTG MSDS prepared by Sovereign Chemical.

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