

HB Chemical Corporation

indoor/outdoor fires and spills.

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Explosion Hazards: Dust suspended in air in critical proportions with a presence of an ignition source presents an explosion hazard. The following is critical in TMQ powder and dust particles:

Min. explosion concentration: 0.035 oz/cu ft
Min. ignition energy: 0.25 joules
Maximum rate of pressure rise: 1200 psi/sec. At 1 oz cu ft
Max. Pressure of explosion: 76 [psig at 0.5](#) oz/cu ft.
Explosion severity: 3.8 (severe)
Volume resistivity: 1.30 x10+15 ohm-cm
NFPA standard 497M rating (1986 edition): class II, Group G
(the above was obtained from RT Vanderbilt MSDS code 045551)

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 drum and tote filling in well-ventilated area wearing protective eye shields and clothing.

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.

TVL/PEL: Not Available

SECTION IX

PHYSICAL AND CHEMICAL INFORMATION

Appearance: white/tan prills/flake
Specific Gravity @25°C = 1.30
Vapor Pressure: ND
Viscosity cPs (25°C) = ND

Evaporation Rate: < 1 (butyl acetate=1)
Melting Point: 100 C approx.
Refractive Index 25°C: ND
Solubility in Water: Not soluble

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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 140 C material may become instable.

SECTION XI

TOXICOLOGICAL INFORMATION

Routes of Entry: Eye, Inhalation and Ingestion and skin

Acute Oral (Rat) 5300 mg/kg (LD50)

Acute Dermal (Rabbit) >7940 mg/kg (LD50)

Mutagenic Effects: Non-mutagenic for mammals

Carcinogenic effect: Not available

Remarks:

SECTION XII

ECOLOGICAL INFORMATION

Ecotoxicity: Ecotoxicity in water (LC50): 5.4 mg/l (LC50), 96 hours trout. 7.9 mg/l (LC50), 96 hours bluegill. >1000mg/l (LC50), 96 hours (Fathead minnow), >18 mg/l (LC50), 48 hours (Daphnia) 1.1 mg/l (EC50) 96 hr, (algae, cell count)

BOD and COD: Not available

Biodegradability: Not available

Products of Biodegradation: No likely short term hazards of degradation however, potential long term may arise.

SECTION XIII

DISPOSAL CONSIDERATIONS

Incineration by a permitted hazardous waste facility in accordance with all regulatory requirements is the preferred method of disposal. Empty containers can be rinsed with a suitable solvent/surfactant and steamed to remove residual product and fumes before disposal or reuse in accordance with applicable regulations. For spill clean-up procedures see Sect.VI.

SECTION XIV

TRANSPORTATION INFORMATION

DOT: Not restricted. Label: Product trade name with chemical description.

CANADA TRANSPORT HAZ.GOODS: Not restricted.

AIR (IATA/ICAO): Not restricted. Label: Product trade name with chemical description.

EUROPEAN TRANSPORTATION: ADR/RID HAZ. CLASS: Not regulated.

US CUSTOMS: - HARMONIZED TARIFF CODE:

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SECTION XV

REGULATORY INFORMATION

OSHA: Not Determined

SARA TITLE III: - 311/312 CATEGORIES: Hazard identification: N-cyclohexyl-2-benzothiazolesulfenamide: delayed health hazard

“ “ - 313 Reportable ingredients: None

CERCLA RQ: Not applicable.

RCRA Status:

TSCA REGULATORY: All intentional ingredients are listed in the TSCA Inventory. As N-cyclohexyl-2-benzothiazolesulfenamide

HCS (USA) Class – Irritating substance and sensitizing substance

CANADA WHMIS HAZARD SYMBOL AND CLASS: Not Regulated

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

EINECS: 202-409-1

SECTION XVI OTHER INFORMATION

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

Prepared: MAY, 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.

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