

HB CHEMICAL CORPORATION

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Date: May, 2010

Material Safety Data Sheet

SECTION I CHEMICAL and COMPANY IDENTIFICATION

PRODUCT: 2,2 - Bipyridine
CHEMICAL NAME: 2, 2' - Dipyridyl
COMMON/GENERIC NAME:
CHEMICAL FAMILY: Formula:
MANUFACTURER: HB CHEMICAL CORP. - Customer Service 330-920-8023
EMERGENCY NUMBERS: CHEMTREC 800-424-9300
CANUTEC (Canada) 613-996-6666

SECTION II COMPOSITION / INGREDIENT INFORMATION

COMPOSITION: 2,2'- Dipyridyl
C.A.S.# 366-18-7

SECTION III/IV HAZARDS / FIRST AID PROCEDURES

See Toxicology data for more information.

EMERGENCY OVERVIEW: Harmful by inhalation and in contact with skin. Toxic if swallowed. Irritating to eyes, respiratory system and skin! Dust can be potential explosive at sufficient concentrations.

EYE: Flush eyes with water (get under eyelids) for 15 min. Call a physician if irritation continues.

SKIN: Get medical attention immediately, flush with lots of water. Remove contaminated clothing.

INGESTION: Never give anything by mouth to unconscious person. Wash mouth out with water and Seek medical attention immediately.

INHALATION: Remove to fresh air; give artificial respiration or oxygen if necessary. Seek medical attention immediately.

TOXICITY: No significant adverse effects expected. Not considered toxic/hazardous.

Note to Physician: Treat symptomatically and supportively.

IN ALL CASES OF EMERGENCY, CONTACT A PHYSICIAN

SECTION V FIRE AND EXPLOSION INFORMATION

FLASH POINT 121 C (249 F)

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

HAZARDOUS COMBUSTION PRODUCTS: This product will decompose under extreme temperatures forming oxides of carbon.

PROTECTIVE EQUIPMENT: Self contained breathing apparatus in pressure-demand, MSHA/NIOSH approved and Full eye protection and protective clothing are required for all indoor/outdoor fires and spills.

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140 E Ascot Lane
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SECTION VI SPILLS AND ENVIRONMENTAL INFORMATION

SPILL OR LEAK PRECAUTIONS: Wear appropriate protective clothing, gloves and equipment. Contain spill with generating very little dust and avoid breathing dust, vapor or mist. Ventilate area. 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. Handle in well-ventilated area wearing protective eye shields and clothing. AVOID breathing dust, vapor, mist or gas and avoid contact with skin, eyes or clothing. Only operate with a chemical fume hood. Wash all contaminated clothes and skin with soap and water. Keep containers closed and tight.

SECTION VIII EXPOSURE CONTROLS AND PERSONAL PROTECTION

VENTILATION: Use only where sufficient ventilation exists to keep exposure levels of fumes and dust at a minimum. Use government approved respirator..

RESPIRATORY AND PERSONAL PROTECTION: Respirators should be selected when TWA exceeded. Avoid hot vapors when mixing or packaging. Eyes: Chemical goggles; gloves, boots and protective clothing to prevent any skin exposure. Respirators should follow regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or approved respirator when handling this material.

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: Yellow to brown crystal
Specific Gravity @25°C = NA
Vapor Pressure: .00001
Viscosity cPs (25°C) = 1.51 cst @90C
Molecular Weight = 156.19 AMU

Evaporation Rate: NA
Boiling Point: 270 C
Refractive Index 25°C: NA
Solubility in Water: 5 g/l
Melting Point 69 - 72 C

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) Hazardous Polymerization will not occur. Carbon monoxide, carbon dioxide and phosphorous oxides are potential for Hazardous Decomposition.

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SECTION XI

TOXICOLOGICAL INFORMATION

Routes of exposure: **Skin Contact:** Causes skin irritation, **Skin absorption:** may be harmful if absorbed through the skin. **Eye Contact:** Causes burns **Inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. **Ingestion:** Harmful if swallowed.

RTECS #: CAS # 366-18-7: DW1750000

Toxicity Data: Oral (mouse) 330 mg/kg LD50; Oral (rat) 100 mg/kg LD50

Carcinogenicity: 2, 2'-Dipyridyl – Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
See actual entry in RTECS for complete information.

Irritation Data:

SECTION XII

ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Logp Pow: 1.5

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: Proper Shipping Name: Toxic Solid, Organic, N.O.S. *

UN#: 2811

Class: 6.1

Packaging Group: III

Hazardous Class Label: 6.1

IATA: Proper Shipping: Toxic Solid, Organic, N.O.S. *

IATA UN Number: 2811

Hazard Class: 6.1

Packaging group: III

CANADA TRANSPORT HAZ.GOODS: NA

EUROPEAN TRANSPORTATION: ADR/RID HAZ. CLASS: NA

US CUSTOMS: - HARMONIZED TARIFF CODE:

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SECTION XV

REGULATORY INFORMATION

European/International Regulations

European Labeling in accordance with EC directives

Hazard symbols: T

Risk Phrases:

R 20/21 Harmful by inhalation and in contact with skin.

R 25 Toxic if swallowed

R 36/37/38 Irritating to eyes, respiratory system and skin.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical attention (show the label where possible).

WGK (Water Danger/Protection)

CAS #: 366-18-7: 2

OSHA:

SARA TITLE III: - 311/312 CATEGORIES: Not listed.

“ “ - 313 Reportable ingredients: None

CERCLA RQ: Not applicable.

RCRA Status:

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

CANADA WHMIS HAZARD SYMBOL AND CLASS: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by CPR

CANADA INGREDIENT DISCLOSURE LIST: CAS # 366-18-7 is not listed on Canada's ingredient Disclosure list.

SECTION XVI OTHER INFORMATION

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

NFPA Rating: Health: 2
Flammability: 1
Reactivity: 1

Prepared- MAY, 2010

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. Much of the information was gathered from Sigma Aldrich MSDS P28808 and Eastar Chemical MSDS

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