

HB Chemical Corporation

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Date: May, 2011
Replaces: Feb., 2009

MATERIAL SAFETY DATA SHEET

SECTION I CHEMICAL and COMPANY IDENTIFICATION

PRODUCT: *IPPD*
CHEMICAL NAME: N-isopropyl-N-phenyl-p-phenylenediamine, (C₁₈H₂₄N₂)
COMMON/GENERIC NAME: IPPD, Vanox 3C or Antioxidant PD-1, Vulkanox 4010
CHEMICAL USE: Antioxidant (Antidegradant)
Distributor: HB Chemical Corp. - Customer Service 800-991-2436
EMERGENCY NUMBERS: CHEMTREC 800-424-9300
CANUTEC(Canada) 613-996-6666

Producer: Kumho

SECTION II COMPOSITION / INGREDIENT INFORMATION

		<u>OSHA PEL</u>	<u>ACGIH</u>
<u>TLV</u>			
COMPOSITION:	N-isopropyl-N-phenyl-p-phenylenediamine	None	None
	C.A.S.# 101-72-4 (97% min)	established	established
	4-aminodiphenylamine		
	CAS# 101-54-2 (1% max)		

SECTION III/IV HAZARDS / FIRST AID PROCEDURES

EMERGENCY OVERVIEW: Brown pastille. which may cause allergic skin and respiratory reactions. May cause eye and skin irritation.

EYE: Mild eye irritant. Flush eyes with water for 15 min. Call a physician if irritation develops.

SKIN: Prolonged or repeated skin contact may cause irritation. Remove contaminated clothing and wash skin with soap and water. If in contact with hot product, treat as a burn.

INGESTION: Illness may occur if ingested in relatively large doses. Do not induce vomiting. Give 2 glasses of water (never give anything to a unconscious person. Call a physician. If victim does vomit keep head below waist to prevent vomit from entering the lungs.

INHALATION: Can be irritating to the eyes, nose and respiratory tract following prolonged exposure. Remove to fresh air; give artificial respiration or oxygen if necessary.

TOXICITY: NA

CARCINOGENICITY: Not listed by NTP, IARC or OSHA

Note to Physician – Treat symptomatically

IN ALL CASES OF EMERGENCY, CONTACT A PHYSICIAN

SECTION V FIRE AND EXPLOSION INFORMATION

FLASH POINT 170 C (COC) Ignition Temperature – NA

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.

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PROTECTIVE EQUIPMENT: Full eye protection and protective clothing are required for all

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indoor/outdoor fires and spills.

Explosion Hazards: None known, nothing established

Toxic Emissions may occur in fire

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 worn with airborne dust and 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: pastille (brown or purple)
Specific Gravity @25°C = 1.09
Vapor Pressure: NA
Viscosity cPs (25°C) = ND

Evaporation Rate: < 1 (butyl acetate=1)
Melting Point: 80. C
Refractive Index 25°C: ND
Solubility in Water: NA

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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.

SECTION XI

TOXICOLOGICAL INFORMATION

Routes of Entry: Eye, Inhalation and Ingestion

Acute Oral (Rat) 573 mg/kg (LD50)

Acute Dermal (Rabbit) >5000 mg/kg (LD50) Dust causes irritation to the eyes, skin and mucous membranes and may lead to toxic oedimas.

This product is not listed as a carcinogen or is not suspected to be a carcinogen by OSHA, NTP or IARC

Mutagenic Effects: Non-mutagenic for mammals

SECTION XII

ECOLOGICAL INFORMATION

Ecotoxicity: Toxic for fish and aquatic Life. Below is information on 6PPD which we believe will be similar to IPPD

Fish: 48hr LC50 = 0.48 mg.l -1

96 hr LC50 = 0.62 mg.l -1

Daphnia magna: 48hr EC (IC)50 - .29 mg.l -1

72hr EC50 - 2.3 mg.l -1

BOD and COD: Not available

Biodegradability: Low efficiency

****Other information: Although the material has low solubility it is very toxic to aquatic life.**

May cause adverse effect in Aquatic life. Do not flush into surface water or sewer systems.

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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.

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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:

SECTION XV

REGULATORY INFORMATION

OSHA: Not Determined

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.

New Jersey Right to Know: Diphenylamine – CAS 122-39-4

N-phenyl-p-phenylenediamine – CAS 101-54-2

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.

SECTION XVI OTHER INFORMATION

HMIS Label: Health: 2
Fire: 3
Reactivity: 0
Protection: A

** Information was acquired from Flexsys MSDS FLXP0030. Other information gathered from Kumho and Duslo MSDS.

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. Information was taken from competitive MSDS'. HB Chemical is strictly a sales agent for the above material. 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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