


SAFETY DATA SHEET

1、Product and Company Identification

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| Product name : BisPhenol-A |
| Synonyms : Pheno1,4,4-(1-Methylethylidene)Bis- ; 4,4`-Isopropylidenebisphenol |
| Recommended use and restrictions on use : In the manuf of epoxy resins and polycarbonates. As fungicide. |
| Supplier detail : Nan Ya Plastics Co., LTD. Mailiao BPA Plant HEAD OFFICE : BPA,RM.105, 3F, NO. 201, Tung Hwa North Road, Taipei city, Taiwan FACTORY : No. 2, Formosa Industrial Park, Mailiao, Yunlin County, Taiwan |
| Emergency phone number: Tel.: 886-5-6818130 Fax.: 886-5-6812426 e-mail: 24807@npc.com.tw |

2、Hazards Identification

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| Hazard classification : Germ cell mutagenicity ; Respiratory sensitization ; Serious eye damage/eye irritation. |
| Warning information : |
| GHS label :  |
| Signal word : Danger |
| Hazard statement : May be harmful if inhaled ; May be harmful if swallowed ; May be harmful if swallowed and enters airways ; May cause damage to organs ; May cause damage to organs through prolonged or repeated exposure |
| Precautionary statement : Put the good place ventilating of container. If keep in touch with eyes, consult medical treatment after washing with a large amount of water at once. The clothes are polluted, take off immediately. In case of unexpected feeling uncomfortable, consult medical treatment immediately. |
| Other hazards : Danger of dust explosion when ground to a small particle size. |

3、Composition / Information on Ingredients

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| Substances |
| Product name : BISPHENOL A |
| Synonyms : Pheno1,4,4-(1-Methylethylidene)Bis |
| CAS Number : 80-05-7 |
| ingredients : > 98% |

4、First-Aid Measures

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| First-aid measures for different exposure routes : |
| Inhalation : Remove to fresh air. |
| Skin Contact : Remove contaminated clothing. Wash skin with water using soap if available. If persistent irritation occurs, obtain medical attention. |
| Eye Contact : DO NOT DELAY. Flush eye with water. OBTAIN MEDICAL ATTENTION IMMEDIATELY. |
| Ingestion : Do not induce vomiting. If rapid recovery does not occur, obtain medical attention. |

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| Most important symptoms and hazardous effects : Serious harmful to eyes and skin. |
| Protection of First-aiders : |
| Notes to Physician : Symptoms : Irritation of the skin, eyes and respiratory tract. Treatment : Dermatitis may result from prolonged or repeated exposure. If skin sensitisation has developed and a causal relationship has been confirmed, further exposure should not be allowed. |

5、Fire-Fighting Measures

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| Extinguishing Media : Foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only. |
| Fire and Explosion Hazards : Not classified as flammable but will burn. Hazardous combustion products may include carbon monoxide Explosive dust clouds may be produced. |
| Special Firefighting Procedures : No information |
| Special Equipment for the Protection of Firefighters : Full protective clothing and self-contained breathing apparatus. |

6、Accidental Release Measures

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| Personal Precautions : Avoid raising a dust cloud. Avoid contact with skin, eyes, clothing. Do not breathe dust |
| Environmental Precautions : Prevent from entering into drains, ditches or rivers.inform the local authorities if this cannot be prevented. |
| Methods for Cleaning Up : small spillage : Shovel up and place in a labelled, sealable container for subsequent safe disposal. large spillage : Transfer to a labelled container for product recovery or safe disposal. |

7、Safe Handling and Storage Measures

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| Handling : Avoid contact with skin, eyes and clothing. Do not breathe dust. Avoid generation or accumulation of dusts. Earth all equipment. Take precautionary measures against static discharges. |
| Storage : Use nitrogen blanketing tank air/desiccant dryers. Storage temperature : $\leq 60^{\circ}\text{C}$ |

8、Exposure Controls / Personal Protection

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| Engineering Measure : Wear dust-tight goggles,PVC gloves,gauntlet type,disposable one-piece uncoated overall without integral hood, safety shoes or boots – chemical resistant if there is a risk of inhalation of dusts, wear a NIOSH approved respirator with P100 filters. | | | |
| Control Parameters | | | |
| 8 hours time weighted average exposure limits TWA | Short-term exposure limits STEL | Maximum exposure limits CEILING | biological standards |
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| Personal protective equipment : Eyeglasses,glove,helmet,mask,safety shower, eye wash fountain. | | | |

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| <ul style="list-style-type: none"> • Respiratory protection : • Hand protection : Gloves • Eye protection : Goggle • Skin and body protection : Wear appropriate protective gloves and clothing to prevent and minimize contact with skin. |
| Specific hygiene measures : No information available |

9、Physical and Chemical Properties

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| Appearance(physical state, color, ect.) : Prill ; White Colour | Odor : Mild Phenolic |
| Odor threshold : -- | Melting point : 156~157°C |
| pH : No information available | Boiling point/boiling Range : 220°C(5hpa)°C |
| Flammability : -- | Flash point & method : 227°C |
| Decompositon temperature : -- | used : closed cup |
| Autoignition temperature : -- | Explosion limits : No information available |
| Vapor pressure : 5.2mmHg@220°C | Vapor density : 7.9 |
| Density : 1.2(water=1) | Solubility : acetone,Alcohols |
| Partition coefficient n-octanol/water : 3.32 | Evaporation rate : -- |

10、Stability and Reactivity

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| Stability : Stable under normal conditions. |
| Possible Hazardous Reactions Occurring under Specific Conditions : Stable under normal use conditions |
| Conditions to Avoid : None known. |
| Materials to Avoid : None known. |
| Hazardous Decomposition Products : None expected under normal use conditions. |

11、Toxicological Information

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| Routes of exposure(inhalation,ingestion,skin and eye contact) : Inhaled,swallowed,keep in touch with eyes, touch SKIN |
| Symptoms : -- |
| Acute toxicity : Low toxicity, LD50 > 2000 mg/kg. |
| Chronic Toxicity or delayed Toxicity : May cause skin sensitization. |

12、Ecological Information

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| Ecotoxicity : LC50 (fish) : 42 mg/L/96H EC50 (Aquatic Invertebrates) : -- BCF : < 42-96 |
| Persistence and degradability : No information |
| Bioaccumulative potential : -- |
| Mobility in soil : -- |
| Other adverse effect : -- |

13、Disposal Considerations

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| Recommended Methods for Safe and Environmentally Preferred Disposal : If this material becomes a waste, it would not be a hazardous waste by RCRA criteria(40 CFR 261). Place in an appropriate disposal facility in compliance with local and federal regulations. |
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14、Transport Information

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| UN number : NOT REGULATED FOR TRANSPORT |
| UN proper shipping name : -- |
| Transport hazard class : -- |
| Packing group : -- |
| Marine pollution : NO |
| Specific precautionary transport measures and conditions : -- |
| US Department of Transportation Classification: This material is not subject to DOT regulations under 49 CFR Parts 171-180 |
| International Air Transportation Association: This material is not classified as hazardous under IATA regulations. |
| International Maritime Organization – IMDG: This material is not classified as hazardous under IMDG regulations. |

15、Regulatory Information

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| Applicable Regulations : <ol style="list-style-type: none">1. Labourer`s safe health facilities rule2. Dangerous thing and harmful thing are labelled and know the rule openly3. The specific chemical material endangers the standard of preventing4. The harmful thing permits the thickness standard in the labourer homework5. Safety regulation of the road traffic6. The undertaking offal stores and removes the treatment method and facility standard |
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16、Other Information

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| Literature references : THE MERCK INDEX / Chem Finder Net Version 7.0.2 Manuf from phenol and acetone : Jansen,US 2468982(1949) ; Faith, Keyes & Clark`s Industrial Chemicals, F.A.Lowenheim,M.K.Moran,Eds. (Wiley-Interscience, New York, 4 th ed, 1975) pp 149-152. Review : Chem. & Eng. News 41, 35 (June 3, 1963) ; ibid. 51,5 (July 16,1973). |
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