Material Safety Data Sheet

Bisphenol-A

MSDS - 2

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product name: Bisphenol-A

Product type: Chemical intermediate

Supplier: KUMHO P&B CHEMICALS, INC.

Head Office Tel. **82–2**–6303–3453

Fax. **82–2**–6303–3492

Yeosu Plant(|) Tel. 82-61-688-3500

Fax. 82-61-688-3505

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance formal name : Substance chemical family :

Common name : Synonyms :

CAS number : 80-05-7

3. HAZARDS IDENTIFICATION

Human health hazards : To man irritating to eyes.

Environmental hazards: To the environment

- toxic to fish, aquatic invertebrates and algae

- harmful to bacteria

- moderate potential for bioaccumulation

4. FIRST AID MEASURES

Symptoms and effects: non irritant

First Aid – Inhalation : slightly irritant

First Aid – Skin: irritant

First Aid – Eye: non irritant

First Aid - Ingestion:

Advice to physicians:

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4. FIRST AID MEASURES

Symptoms and effects:

First Aid – Inhalation: Remove to fresh air

If rapid recovery does not occur, obtain medical

attention

First Aid – Skin: Remove contaminated clothing

Wash skin with water, using soap if available

First Aid – Eye: Flush eye liberally with water. If irritation persists,

obtain medical attention

First Aid – Ingestion: DO NOT INDUCE VOMITING.

Advice to physicians:

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5. FIRE FIGHTING MEASURES

Extinguishing media: SMALL FIRE

earbon dioxide, dry chemical powder, foam

sand/earth, use water as a spray

LARGE FIRE

foam, water fog/spray

Hazards: this product is not in the flammable range but

will burn,

carbon monoxide is possible where incomplete

combustion occurs

Protective equipment : wear self-contained breathing apparatus for a

large fire

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6. ACCIDENTAL RELEASE MEASURES

LEAKS AND SPILLS : Extinguish any naked flames

all spillages should bl cleared up quickly

Small spillage: sweep/shovel up and remove to a safe place for

subsequant disposal,

flush the contaminated area with plenty of water

Large spillage: transfer to a salvage drum/tank if

possible, otherwise treat as for a small spillage

Personal protection: Refer Section 9

in the event of inhalation risk wear high efficiency dust respirator(NPF 1000)

7. HANDLING AND STORAGE

Handling: danger of dust explosion maintain adequate

ventilation electrostatic charges may be generated during handling, e.g. when crushing, grinding and sewing or emptying bags all equipment should be earthed, including funnels, chutes and drums

Storage: satisfactory: carbon steel, stainless steel,

aluminium polyethylene and paper bags

unsatisfactory: copper, bronze

Storage conditions : store in cool, dry conditions

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure controls: although no exposure limit has been established for

this product, an exposure limit of $10\,\text{mg/m}^3$ for nuisance dusts and $6\,\text{mg/m}^3$ for respirable dusts

should be observed.

Personal Ptotection: respiratory: not normally required in the event of

inhalation risk use with local exhaust ventilation if this is not practical wear a general purpose dust

respirator(NPF 7?10)

hand: PVC gloves

eye : chemical monogoggles

skin : standard issue work clothes chemical resistance safety boots wihout lace holes

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9. PHYSICAL AND CHEMICAL PROPERTIES(typical values)

APPEARANCE(20°C): powder ODOUR: mild

PH:

360℃ **BOILING POINT/RANGE: MELTING POINT/RANGE:** 156.5℃ 207℃ FLASH POINT(CC):

not established as flammable but will burn if ignited. FLAMMABILITY:

AUTOFLAMMABILITY:

LEL 12 g/m(dust cloud) **EXPLOSIVE PROPERTIES:**

none oxidising properties: 2.6Pa vapour pressure(170°C): 1 17 RELATIVE DENSITY(25℃):

in water : 0.1% m/m(25 °C) **SOLUBILITY**:

in other solvents : various org. solvents

n-octanol/water : log Pow=2.2 **PARTITION COEFFICIENT:**

(air=1)**RELATIVE VAPOUR DENSITY:** 3.55mPa.s VISCOSITY(160°C): white COLOUR: 288

SPECIFIC CONDUCTIVITY:

RELATIVE MOLECULAR MASS:

10. STABILITY/REACTIVITY

Stability: stable under normal conditions at ambient

temperature can function as antioxidant

decomposes above 11 mbar pressure when Conditions to avoid:

heated above 220 ℃

readily undergoes condensation reactions. Materials to avoid:

Hazardous decomposition products:

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11. TOXICOLOGICAL INFORMATION

CUTE TOXICITY: oral(rat) LD_{50} : > 2000 mg/kg

dermal(rabbit): > 2000mg/kg

inhalation(rat): LC₅₀:

IRRITATION: skin: slight

eyes: moderate

respiratory: Sensitisation not a skin sensitizer. OTHER TOXICOLOGICAL EFFECTS:

there is no conclusive evidence for careinogenie

or mutagenic(direct or indirect) potential not teratogenic following oral administration: foetotoxicity and reproductive effects are only

observed at matermally toxic doses

12. ECOLOGICAL INFORMATION

fish $LC_{50}(96h)$: 3.9 mg/L **ECOTOXICITY:**

daphnia(water fiea) EC₅₀(48h) : 3.9 mg/L

algae EC₅₀(96h): 2.5 mg/L bacteria EC₅₀(8h): 55 mg/L

PERSISTENCE:

degredation

biotic(5days): inherently biodegradable

abiotic:

bioaccumulation: moderate potential

13. DISPOSAL CONSIDERATIONS

DISPOSAL:

dispose to incinerator

CLASSIFICATION:

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14. TRANSPORT INFORMATION

ADR/RID CLASS:

SYMBOL: not dangerous none

NAME:

KEMLER PLATE:

IMO UN nr:

CLASS: none not dangerous

PACKING GROUP:

SYMBOL: none MARINE POLLUTANT: no NAME: -

IATA/ICAO UN nr : none

CLASS: not dangerous

PACKING GROUP: - none

NAME:

REMARKS: not dangerous by any mode of

international transport

15. OTHER INFORMATION

USES AND RESTRICTIONS

APPLICATION: raw material in preparation of epoxy resins and

polycarbonate resin manufacture

DISCLAIMER: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only, It should not therefore be construed as

guaranteeing any specific property of the product.