MATERIAL SAFETY DATA SHEET

Dow Chemical U.S.A. Midland, MI 48674 Emergency Phone: 517-636-4400

Product Code: 10294 Page: 1

PRODUCT NAME: BISPHENOL A (R)

Effective Date: 03/12/86 Date Printed: 10/15/87 MSDS:000414

1. INGREDIENTS:

P' p'-isopropylidene diphenol	CAS# 000080-05-7	98%
O' p'-isopropylidene diphenol	CAS# 000080-05-7	2%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not 'Hazardous' per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: 428F, 220C @ 4 mmHg
VAP PRESS: Not applicable
VAP DENSITY: Not applic.
SOL. IN WATER: < 0.1%
SP. GRAVITY: 1.195
APPEARANCE: White to light tan solid flake (powder).
ODOR: Mild phenolic odor.

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: 415F, 213C
METHOD USED: ASTM D92-66, COC.

FLAMMABLE LIMITS
LFL: Not applicable
UFL: Greater than 200F

EXTINGUISHING MEDIA: Foam, CO2, dry chemical.

FIRE & EXPLOSION HAZARDS: Bisphenol A will dust during handling. This dust, when suspended in air, can be flammable and poses a definite fire and explosion hazard if not handled properly.

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3. FIRE AND EXPLOSION HAZARD DATA: (CONTINUED)

Dust control and good housekeeping are imperative for safe handling of bisphenol Aa.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self-contained brething apparatus during fire fighting operations.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Suspended dust in air can form explosive mixtures.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Oxidizing material.

HAZARDOUS DECOMPOSITION PRODUCTS: Under conditions of imperfect combustion and/or pyrolysis various phenolic compounds, CO, and/or CO2 may be evolved.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS/LEAKS: Sweep up.

DISPOSAL METHOD: Bury in an approved landfill away from water supply or burn in an adequate incinerator in accordance with all applicable federal, state and local regulations.

6. HEALTH HAZARD DATA:

EYE: May cause moderate irritation with corneal injury. In animals, irritation and corneal injury healed primarily in 7 days.

SKIN CONTACT: Short single exposure not likely to cause

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6. HEALTH HAZARD DATA: (CONTINUED)

significant skin irritation. Prolonged or repeated exposure may cause some skin irritation, even a burn. May be a weak skin sensitizer.

SKIN ABSORPTION: A single prolonged skin exposure is not likely to result in absorption of harmful amounts. The LD50 for absorption in rabbits is 3000 mg/kg.

INGESTION: Single dose oral toxicity is low. The LD50 for rats is between 1000 and 2000 mg/kg. Amounts ingested incidental to industrial handling are not likely to cause injury; however ingestion of larger amounts may cause injury.

INHALATION: At room temperature, exposures to vapors are unlikely due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation. Dusts may cause irritation to upper respiratory tract. Dusts may cause sneezing.

SYSTEMIC & OTHER EFFECTS: No convincing evidence of carcinogenicity has been seen in long-term animal studies. Has been toxic to the fetus in laboratory animals at doses toxic to the mother.

7. FIRST AID:

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower. Wash contaminated clothing before reuse. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

INGESTION: Induce vomiting if large amounts are ingested. Consult medical.

INHALATION: Remove to fresh air if effects occur. Consult

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7. FIRST AID: (CONTINUED)

medical.

NOTE TO PHYSICIAN: If burn is present, treat as any thermal burn, after decontamination. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): Dow IHG is 5 mg/m3.

VENTILATION: Good general ventilation sufficient for most conditions. Local exhaust ventilation may be necessary.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved air-purifying respirator.

SKIN PROTECTION: For brief contact, no precautions other than clean body-covering clothing should be needed. Use impervious gloves when prolonged or frequently repeated contact could occur.

EYE PROTECTION: Use chemical goggles.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Practice reasonable care to avoid eye and skin contact.

MSDS STATUS: Revised sections 1, 3, and 4.

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The Information Herein Is Given In Good Faith, But No Warranty, Express Or Implied, Is Made. Consult The Dow Chemical Company For Further Information.

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MATERIAL SAFETY DATA SHEET

United Stat s Gypsum Company
101 S. Wack r Drive
Chicago, Illinois 60606

Emergency phone Day (312)321-4383
Night (312)321-4382

SECTION I

PRODUCT GROUP: Gypsum Rock and Uncalcined Ground Gypsum Products:

Agricultural and Road Bed Gypsum Fines
Calcium Sulfate Feed Grade
Glass Batch Gypsum
IG 2030
Industrial Ground Gypsum
Lawn and Garden Gypsum
Crushed Gypsum Rock
Crushed Anhydrite or Gypsum-Anhydrite Rock
SOF'N-SOIL Gypsum
USG Agricultural Gypsum
USG Crushed Agricultural Gypsum

DATE ISSUED: May 12,1986
CHEMICAL FAMILY: Calcium Sulfate Calcium Sulfate

SECTION II
HAZARDOUS INGREDIENTS

MATERIALS:	%	TLV	CAS #
None			

SECTION III
PHYSICAL DATA

MELTING POINT: 1450°C - decomposes
SPECIFIC GRAVITY: 2.32 - 2.96
SOLUBILITY IN WATER: 0.2%
APPEARANCE AND ODOR: Off-White to White powder or lump rock, low odor

SECTION IV
FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): None
EXTINGUISHING MEDIA: Not combustible
SPECIAL FIRE FIGHTING PROCEDURES: None
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

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PRODUCT GROUP: Gypsum Rock and Uncalcined Gr und Gypsum Pr ducts:

SECTION V
HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ACUTE: This material is not toxic. No toxic effects from powdered gypsum are noticed where air contains contaminate to excess. Persons subjected to large amounts of this dust will be forced to leave area because of nuisance conditions: coughing, sneezing, and nasal irritation from dust.

CHRONIC: None Known

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Flush eyes with water for 15 minutes. Call PHYSICIAN if irritation continues.

SKIN: Wash contaminated area with water.

INHALATION: Remove to fresh air.

SECTION VI
REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY: Acids

HAZARDOUS DECOMPOSITION PRODUCTS: Above 1450°C - SO_2 & CaO

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VII
SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Sweep or vacuum material from spillage into a waste container for disposal. Avoid dusting conditions.

WASTE DISPOSAL METHOD: This material can be disposed of as inert solid in a landfill or by other procedures which are accepted under Federal, State, and local regulations.

SECTION VIII
SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Provide general ventilation and local exhaust ventilation to meet TLV requirements. When dusty condition exists, wear an approved dust mask to guard against nuisance particles.

PROTECTIVE EQUIPMENT: Gloves or protective clothing are usually not necessary but may be desirable in specific work situations. Eye protection (goggles) may be ne ded to avoid particulate irritation of the eye.

SECTION IX
SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Be sure proper ventilation and respiratory and eye protection are used under dusting conditions.