

# Safety Data Sheet

**TOXYSCAN HOTLINE: 1-855-780-0599** 

## Bisphenol A-3,3',5,5'-d<sub>4</sub>

## Section 1. Chemical product and company identifications

Product code: D-3764

Chemical formula: C<sub>15</sub>H<sub>12</sub>D<sub>4</sub>O<sub>2</sub>

CAS: 347841-41-2

CAS (unlabelled): 80-05-7

**Synonyms:** 4,4'-Isopropylidenediphenol, 2,2-Bis(4-hydroxyphenyl)propane

Supplier / Manufacturer: In case of emergency:

C/D/N Isotopes Inc.

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## **Section 2. Hazards identifications**

Physical state: Solid

Warning: Causes serious eye damage.

Routes of entry: Inhalation, ingestion, skin and eyes

## GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

**GHS Classification:** - Serious eye damage (Category 1)

Skin sensitisation (Category 1)Reproductive toxicity (Category 2)

- Specific target organ toxicity - single exposure (Category 3), Respiratory system

GHS Label elements: - Pictograms:



- Signal word: Danger

**Hazards statement:** - H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.H335 May cause respiratory irritation.

- H361 Suspected of damaging fertility or the unborn child.

Precautionary statement: - P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

- P317 Get medical help.

## Section 3. Composition and information on ingredients

Name CAS Concentration %

Bisphenol A-3,3',5,5'-d<sub>4</sub> 347841-41-2 > 98

## Section 4. First aid measures

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

## Section 5. Firefighting measures

Flammability of the product: Combustible at high temperature.

Lower explosion limit: No data available Upper explosion limit: No data available Auto-ignition temperature: 510 °C (950 °F)

Flash point: 227 °C (441 °F)

**Products of combustion:** Hazardous decomposition products formed under fire conditions: Carbon oxides. **Firefighting media and instructions:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **Special protective equipment for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

#### Section 6. Accidental release measures

**Personal precautions:** Use personal protective equipment. Avoid dust formation. Ensure adequate ventilation. Avoid breathing dust.

**Environmental precautions:** Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

## Section 7. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation. **Storage:** Store at room temperature. Adequate ventilation.

## **Section 8. Exposure Controls, Personal Protections**

**Engineering controls:** Use mechanical exhaust or laboratory fumehood to avoid exposure.

Eyes: Safety glasses with side-shields conforming to NIOSH (US) or EN 166 (EU).

**Respiratory:** Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US).

**Hands:** Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Skin/body:** Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Section 9. Physical and chemical properties (unlabelled)

Molecular weight: 228.29 g/mol

Physical status: Solid Color: White to off-white Odour: No data available Density: No data available

**Melting point:** 155 - 158 °C (311 - 316 °F) **Boiling point:** 220 °C (428 °F) at 5 hPa (4 mmHg)

**Vapour pressure:** No data available **Vapour density:** No data available

Partition coefficient (octanol/water): log Pow: 3.32

Water solubility: 0.12 g/L

## Section 10. Stability and reactivity

**Stability and reactivity:** Stable under recommended storage conditions.

**Incompatibility:** Strong oxidizing agents, strong bases.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides.

Reactivity conditions: No data available.

## Section 11. Toxicological information (unlabelled)

**Toxicological data:** Bisphenol A **Information on ingredients:** 

Name CAS LD<sub>50</sub> LC<sub>50</sub>

Bisphenol A 80-05-7 Oral - Rat - 3,250 mg/kg Inhalation - Rat - 2 h - > 1,700 mg/m<sup>3</sup>

Dermal - Rabbit - 2,230 mg/kg

#### **Potential acute effects**

- Eyes: Causes serious eye damage.
- Skin: May be harmful if absorbed through skin. May cause skin irritation. May cause an allergic skin reaction.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed.

#### **Potential chronic effects**

- Carcinogenic effects: IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- Mutagenic effects: Genotoxicity in vitro Ames test S. typhimurium with and without metabolic activation negative. Genotoxicity in vivo Mouse male and female Oral negative.
- Teratogenic effects: Suspected of damaging the unborn child. Suspected human reproductive toxicant.
- Medical conditions aggravated by overexposure: No data available.

## **Section 12. Ecological information**

## **Ecological data:**

<u>Name</u>	<u>Results</u>	<u>Species</u>	<u>Period</u>
Bisphenol A	4.6 mg/l LC50	Pimephales promelas	96 h
	10.2 mg/l EC50	Daphnia magna	48 h
	2.5 mg/l EC50	Pseudokirchneriella subcapitata	96 h

**Effects on environment:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **Mobility:** No data available.

Environmental precautions: No data available.

Persistence and degradability: Aerobic. Result: 89 % - Readily biodegradable. Method: OECD Test Guideline 301F.

Bioaccumulative potential: Cyprinus carpio - 42 d - 0.015 mg/l. Bioconcentration factor (BCF): 20 - 67.

## Section 13. Disposal considerations

Waste disposal: Contact a licensed professional waste disposal service to dispose of this material.

## **Section 14. Transportation information**

## Classification DOT/IMDG/IATA label:

Shipping name: Not dangerous goods

**UN number:** None **Class:** None

Packaging group: None

**Additional information: None** 

## Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 2 Flammable: 1 Reactivity: 0 Special conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

#### **U.S. Federal regulations:**

TSCA 8(b) inventory: Bisphenol A

SARA 302/304/311/312 extremely hazardous substances: Not Listed SARA 302/304 emergency planning and notification: Not Listed SARA 302/304/311/312 hazardous chemicals: Not Listed

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute)

health hazard, Delayed (chronic) health hazard: Listed

CWA (Clean Water Act) 307: Not Listed CWA (Clean Water Act) 311: Not Listed

CAA (Clean Air Act) 112 accidental release prevention: Not Listed CAA (Clean Air Act) 112 regulated flammable substances: Not Listed CAA (Clean Air Act) 112 regulated toxic substances: Not Listed

#### State regulations:

**DEA List I Chemicals (Precursor Chemicals):** Not Listed **DEA List II Chemicals (Essential Chemicals):** Not Listed

Substances in Massachusetts: Listed

Dangerous substances in New Jersey: Listed

New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Listed

## WHMIS (Canada):



D2A - Very toxic material causing other toxic effects D2B - Toxic material causing other toxic effects

## **Section 16. Additional information**

#### **References:**

- ANSI Z400.1, MSDS Standard, 2001.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
- Toxicological repertory, HSC.
- Material safety data sheet from the components.

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Elaborated by: Toxyscan Inc., 1-866-780-0599

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