MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: BISPHENOL A CAS Number: 80-05-7

1. IDENTIFICATION:

Product Code	:	**92910, 98512**
Company Name	:	ADVENT CHEMBIO PRIVATE LIMITED
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2. HAZARDS IDENTIFICATION:

Hazard classification

Health hazards

Serious eye damage	:	Category 1
Skin sensitisation	:	Category 1
Reproductive toxicity	:	Category 1B
Specific target organ toxicity - single exposure, Respiratory system	:	Category 3
Endocrine disruptor for human health	:	Category 1
Short-term (acute) aquatic hazard	:	Category 1
Long-term (chronic) aquatic hazard	:	Category 1
Endocrine disruptor for environment	:	Category 1

Labels elements :

Hazard symbol :



Signal word : Danger

Hazard statement :

May cause an allergic skin reaction.
Causes serious eye damage.
May cause respiratory irritation.
May damage fertility.
Very toxic to aquatic life with long lasting effects.
May cause endocrine disruption in humans.
May cause endocrine disruption in the environment.

Precautionary statement

Prevention	:	Obtain special instructions before use. Avoid contact during pregnancy and while nursing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking. Keep container tightly closed. Ground/ bond container and receiving equipment. Use explosion-proof electrical/ ventilating/ lighting/ equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Response	:	IF exposed or concerned: Get medical advice/ attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Immediately call a poison center or doctor/physician.
Storage	:	Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Disposal	:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
Other hazards which do not result in GHS classification	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment , according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100. Toxicological information: This substance/mixture contains components considered to have endocrine disrupting properties affecting human health, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:

Ingredient	CAS Number	Percent	Hazardous
Bisphenol A	80-05-7	NLT 98.0%	Yes

4. FIRST AID MEASURES:

General information	:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
Ingestion	:	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Inhalation	:	Move to fresh air. Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
Skin contact	:	Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

Eye contact	:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Most important symptoms/effects, acute and delayed	:	The most important known symptoms and effects are described in the labelling.
Indication of immediate medical attention and special treatment needed	:	No data available.

5. FIRE FIGHTING MEASURES:

General information

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	:	Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards arising from the chemical	:	Combustible Vapours are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment and precautions for firefighters

Special firefighting procedures	:	Fight fire from a protected location. Move containers from fire area if you can do so without risk.
Special protective equipment for fire-fighters	:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

6. ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures	:	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for containment and cleaning up	:	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take precautionary measures against static discharges. Stop leak if possible without any risk. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.
Notification Procedures	:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
Environmental precautions	:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

7. HANDLING AND STORAGE:

Precautions for safe handling	:	Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/ face protection. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Use only with adequate ventilation. Wash hands thoroughly after handling.
Conditions for safe storage, including any incompatibilities	:	Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a dry, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Appropriate engineering controls	:	No data available

Individual protection measures, such as personal protective equipment

General information	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.
Eye/face protection	:	Wear safety glasses with side shields (or goggles).
Hand protection	:	Chemical resistant gloves.
Other	:	Wear suitable protective clothing.
Respiratory protection	:	Required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P3
Hygiene measures	:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower. Avoid contact with eyes, skin, and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance	:	White granules or powder.
Odor	:	odourless
Solubility	:	Soluble in water.
Formula	:	$C_{15}H_{16}O_2$
Molecular Weight	:	228.29 g/mol

Density	:	No data available.
pH	:	No data available.
% Volatiles by volume @ 21C (70F)	:	No data available.
Boiling Point	:	220°C
Melting Point	:	154.0 - 156.0 °C
Flash Point	:	227 °C
Vapor Density (Air=1)	:	No data available.
Vapor Pressure (mm Hg)	:	No data available.
Evaporation Rate (BuAc=1)	:	No data available.

10. STABILITY AND REACTIVITY:

Reactivity	:	Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.
Chemical stability	:	Material is stable under ambient conditions..
Possibility of hazardous reactions	:	Violent reactions possible with: Strong oxidizing agents, Bases, Acid anhydrides, acid halides
Conditions to avoid	:	Strong heating.
Incompatible materials	:	No data available.
Hazardous decomposition products	:	In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product	:	LD 50 Oral - Rat - male and female - > 2.000 - 5.000 mg/kg
Dermal Product	:	LD 50 Dermal - Rabbit - 3.000 mg/kg
Inhalation Product	:	Irritating to respiratory system.
Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	Skin - Rabbit Result: No skin irritation - 4 h
Serious eye damage/eye irritation Product	:	Eyes - Rabbit Result: Causes serious eye damage.
Respiratory or skin sensitization Product	:	In vitro study Result: positive

Carcinogenicity Product	:	No data available.
Germ cell mutagenicity	:	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative Remarks: (ECHA) Test Type: Mutagenicity (mammal cell test): chromosome aberration. Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Result: negative Remarks: (ECHA) Test Type: In vitro mammalian cell gene mutation test Test system: Mouse lymphoma test Metabolic activation: with and without metabolic activation Result: negative Remarks: (ECHA) Test Type: In vivo micronucleus test Species: Mouse Cell type: Bone marrow Application Route: Gavage Result: negative Remarks: (ECHA)
Reproductive toxicity Product	:	May damage fertility.
Specific target organ toxicity - single exposure Product	:	Inhalation - May cause respiratory irritation. - Respiratory system
Specific target organ toxicity - repeated exposure Product	:	No data available.
Aspiration hazard Product	:	No data available.
Other effects	:	No data available.

12. ECOLOGICAL INFORMATION:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product	:	LC 50 (Pimephales promelas (fathead minnow)): 4,7 mg/l End point: mortality Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 203 GLP: yes
Aquatic invertebrates Product	:	EC 50 (Daphnia magna (Water flea)): 10,2 mg/l End point: mortality Exposure time: 48 h Test Type: static test

		Analytical monitoring: yes GLP: yes
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 2,73 - 3,1 mg/l Exposure time: 96 h Test Type: static test Analytical monitoring: yes Method: US-EPA GLP: yes
Toxicity to microorganisms	:	EC 50 (activated sludge): 58,4 mg/l Exposure time: 3 h

Chronic hazards to the aquatic environment

Fish Product	:	NOEC: 0,016 mg/l Exposure time: 431 d Species: Pimephales promelas (fathead minnow) Test Type: flow-through test Analytical monitoring: yes Method: US-EPA GLP: yes
Aquatic invertebrates Product	:	NOEC: >= 3,146 mg/l End point: reproduction rate Exposure time: 21 d Species: Daphnia magna (Water flea) Test Type: semi-static test Analytical monitoring: yes Method: OECD Test Guideline 211 GLP: yes
Toxicity to Aquatic Plants Product:	:	No data available.

Persistence and degradability

Biodegradation Product	:	No data available.
BOD/COD ratio Product	:	No data available.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow) Product	:	log Pow: 3,4 (21,5 °C) pH: 6,4 Method: OECD Test Guideline 107 Remarks: Bioaccumulation is not expected.
Mobility in soil	:	No data available.
Other adverse effects	:	No data available.

13. DISPOSAL CONSIDERATION:

Disposal instructions	:	Discharge, treatment, or disposal may be subject to national, state, or local laws. Disposal recommendations are based on uncontaminated material.
Contaminated packaging	:	Since emptied containers retain product residue, follow label warnings even after container is emptied.

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14. TRANSPORT INFORMATION:

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Environmental hazards
ADR/RID	UN 3077	Bisphenol A	9	iII	Yes
IMDG	UN 3077	Bisphenol A	9	Iil	Yes
IATA	UN 3077	Bisphenol A	9	Iil	Yes

15. REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

16. OTHER INFORMATION:

NFPA Hazard ID :



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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