



## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: 2-HYDROXYPROPYL- $\beta$ -CYCLODEXTRIN

CAS Number: 128446-35-5

**1. IDENTIFICATION:**

Product Code	:	90980
Company Name	:	ADVENT CHEMBIO PRIVATE LIMITED
Address	:	W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA.
E-mail	:	<a href="mailto:sales@adventchembio.com">sales@adventchembio.com</a>
WEBSITE	:	<a href="http://www.adventchembio.com">www.adventchembio.com</a>
Company Phone Number	:	+91 77770 84837

**2. HAZARDS IDENTIFICATION:**

Hazard classification	:	Not a hazardous substance or mixture according to Regulation.
Physical hazards	:	Not a hazardous substance or mixture according to Regulation.
Labels elements	:	Not a hazardous substance or mixture according to Regulation.
Signal word	:	Not a hazardous substance or mixture according to Regulation.
Hazard statement	:	Not a hazardous substance or mixture according to Regulation.
Precautionary statement Prevention	:	Obtain special instructions before use. 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	:	Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.



## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: 2-HYDROXYPROPYL- $\beta$ -CYCLODEXTRIN

CAS Number: 128446-35-5

**3. COMPOSITION/ INFORMATION ON INGREDIENTS:**

Ingredient	CAS Number	Percent	Hazardous
2-Hydroxypropyl- $\beta$ -Cyclodextrin	128446-35-5	NA	No

**4. FIRST AID MEASURES:**

<b>General information</b>	:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.
<b>Ingestion</b>	:	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. 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.
<b>Inhalation</b>	:	provide artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms persist.
<b>Skin contact</b>	:	Immediately flush with plenty of water for at least 15 minutes. Get medical attention.
<b>Eye contact</b>	:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
<b>Most important symptoms/effects, acute and delayed</b>	:	The most important known symptoms and effects are described in the labelling.
<b>Indication of immediate medical attention and special treatment needed</b>	:	No data available.

**5. FIRE FIGHTING MEASURES:**

**General information** : No data available.

**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media** : Water Foam Carbon dioxide (CO<sub>2</sub>) Dry powder.

**Unsuitable extinguishing media** : For this substance/mixture no limitations of extinguishing agents are given.

**Specific hazards arising from the chemical** : Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Vapor from the solvent may accumulate in container headspace resulting in flammability hazard. Heat may cause the containers to explode.

**Special protective equipment and precautions for firefighters**

**Special firefighting procedures** : Carbon oxides Sulphur oxides Hydrogen chloride gas Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.

**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.

## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: 2-HYDROXYPROPYL- $\beta$ -CYCLODEXTRIN

CAS Number: 128446-35-5

**6. ACCIDENTAL RELEASE MEASURES:**

<b>Personal precautions, protective equipment and emergency procedures</b>	:	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.
<b>Methods and material for containment and cleaning up</b>	:	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.
<b>Notification Procedures</b>	:	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
<b>Environmental precautions</b>	:	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:**

<b>Precautions for safe handling</b>	:	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.
<b>Conditions for safe storage, including any incompatibilities</b>	:	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:**

<b>Appropriate engineering controls</b>	:	No data available
<b>Individual protection measures, such as personal protective equipment</b>	:	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.
<b>General information</b>	:	
<b>Eye/face protection</b>	:	Wear safety glasses with side shields (or goggles).
<b>Hand protection</b>	:	Chemical resistant gloves.
<b>Other</b>	:	Wear suitable protective clothing.

**MATERIAL SAFETY DATA SHEET**

Version Number:- 02

**PRODUCT NAME: 2-HYDROXYPROPYL- $\beta$ -CYCLODEXTRIN**

CAS Number: 128446-35-5

<b>Respiratory protection</b>	:	In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.
<b>Hygiene measures</b>	:	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:**

<b>Appearance</b>	:	White or almost white, amorphous or crystalline powder.
<b>Odor</b>	:	No data available.
<b>Solubility</b>	:	No data available.
<b>Formula</b>	:	$(C_{42}H_{70-n}O_{35})(C_3H_7O)_n$
<b>Molecular Weight</b>	:	1.387,2 g/mol
<b>Density</b>	:	No data available.
<b>pH</b>	:	5 - 8 at 20 g/l at 20 °C
<b>% Volatiles by volume @ 21C (70F)</b>	:	No data available.
<b>Boiling Point</b>	:	> 400 °C - OECD Test Guideline 103
<b>Melting Point</b>	:	267 °C - dec.
<b>Flash Point</b>	:	> 400 °C
<b>Vapor Density (Air=1)</b>	:	No data available.
<b>Vapor Pressure (mm Hg)</b>	:	No data available.
<b>Evaporation Rate (BuAc=1)</b>	:	No data available.

**10. STABILITY AND 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.
<b>Reactivity</b>	:	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.
<b>Chemical stability</b>	:	Material is stable under ambient conditions.
<b>Possibility of hazardous reactions</b>	:	No data available.
<b>Conditions to avoid</b>	:	Strong heating.
<b>Incompatible materials</b>	:	No data available.
<b>Hazardous decomposition products</b>	:	In the event of fire: see section 5

**MATERIAL SAFETY DATA SHEET**

Version Number:- 02

**PRODUCT NAME: 2-HYDROXYPROPYL- $\beta$ -CYCLODEXTRIN**

CAS Number: 128446-35-5

**11. TOXICOLOGICAL INFORMATION:****Information on toxicological effects****Acute toxicity (list all possible routes of exposure)**

<b>Oral Product</b>	LD50 Oral - Rat - male and female - > 2.243 mg/kg (OECD Test Guideline 401) : LC50 Inhalation - Rat - male and female - 4 h - > 2,95 mg/l - dust/mist (OECD Test Guideline 403) LD50 Dermal - Rat - > 2.000 mg/kg (OECD Test Guideline 402)
<b>Dermal Product</b>	: No data available.
<b>Inhalation Product</b>	: No data available.
<b>Repeated dose toxicity Product</b>	: No data available.
<b>Skin corrosion/irritation Product</b>	Skin - Rabbit : Result: No skin irritation - 72 h (OECD Test Guideline 404)
<b>Serious eye damage/eye irritation Product</b>	Eyes - Rabbit : Result: No eye irritation (OECD Test Guideline 405)
<b>Respiratory or skin sensitization Product</b>	Maximisation Test - Guinea pig : Result: negative (OECD Test Guideline 406)
<b>Carcinogenicity Product</b>	: No data available.
<b>IARC Monographs on the Evaluation of Carcinogenic Risks to Humans</b>	: No data available.
<b>US. National Toxicology Program (NTP) Report on Carcinogens</b>	: No data available.
<b>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)</b>	: No data available.
<b>Germ cell mutagenicity</b>	Test Type: Ames test Test system: Escherichia coli/Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative Test Type: Chromosome aberration test in vitro : Test system: Chinese hamster ovary cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative Test Type: In vitro mammalian cell gene mutation test Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 476

## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: 2-HYDROXYPROPYL- $\beta$ -CYCLODEXTRIN

CAS Number: 128446-35-5

	Result: negative
	Test Type: In vitro mammalian cell gene mutation test
	Test system: mouse lymphoma cells
	Metabolic activation: with and without metabolic activation
	Method: OECD Test Guideline 476
	Result: negative
<b>Reproductive toxicity Product</b>	: No data available.
<b>Specific target organ toxicity - single exposure Product</b>	: No data available.
<b>Specific target organ toxicity - repeated exposure Product</b>	: No data available.
<b>Aspiration hazard Product</b>	: No data available.
<b>Other effects</b>	: No data available.

**12. ECOLOGICAL INFORMATION:****Ecotoxicity****Acute hazards to the aquatic environment**

<b>Fish Product</b>	: LC50 - Danio rerio (zebra fish) - > 1.131 mg/l - 96 h Remarks: (External MSDS)
<b>Aquatic invertebrates Product</b>	: static test EC50 - Daphnia magna (Water flea) - > 1.084 mg/l - 48 h (OECD Test Guideline 202)
<b>Chronic hazards to the aquatic environment</b>	
<b>Fish Product</b>	: flow-through test LC50 - Cyprinus carpio (Carp) - > 100 mg/l - 28 d (OECD Test Guideline 215)
<b>Aquatic invertebrates Product</b>	: static test NOEC - Daphnia magna (Water flea) - 127 mg/l - 21 d (OECD Test Guideline 211)
<b>Toxicity to Aquatic Plants Product:</b>	: static test ErC50 - Pseudokirchneriella subcapitata - > 1.182 mg/l - 72 h (OECD Test Guideline 201)
<b>Persistence and degradability</b>	
<b>Biodegradation Product</b>	: aerobic - Exposure time 34 d Result: < 10 % - Not inherently biodegradable. (OECD Test Guideline 301B)
<b>BOD/COD ratio Product</b>	: No data available.
<b>Bioaccumulative potential</b>	
<b>Bioconcentration factor (BCF) Product</b>	: No data available on bioaccumulation.
<b>Partition coefficient n-octanol / water (log Kow) Product</b>	: No data available.
<b>Mobility in soil</b>	: No data available.



## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: 2-HYDROXYPROPYL- $\beta$ -CYCLODEXTRIN

CAS Number: 128446-35-5

**Other adverse effects** : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**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.

**14. TRANSPORT INFORMATION:**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>ADR/RID</b>	NA	2-Hydroxypropyl- $\beta$ -Cyclodextrin	NA	Not dangerous goods	NA
<b>IMDG</b>	NA	2-Hydroxypropyl- $\beta$ -Cyclodextrin	NA	Not dangerous goods	NA
<b>IATA</b>	NA	2-Hydroxypropyl- $\beta$ -Cyclodextrin	NA	Not dangerous goods	NA

**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

## MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: 2-HYDROXYPROPYL- $\beta$ -CYCLODEXTRIN

CAS Number: 128446-35-5

## 16. OTHER INFORMATION:

NFPA Hazard ID



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

Issue Date : 23/05/2026

Version Number : 02

**Disclaimer: This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. ADVENT CHEMBIO PRIVATE LIMITED makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the technical instructor in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of ADVENT CHEMBIO PRIVATE LIMITED and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).**