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MATERIAL SAFETY DATA SHEET

Version Number:- 02

PRODUCT NAME: L-ASCORBIC ACID

CAS Number: 50-81-7

1. IDENTIFICATION:		
Product Code	90177, 90437, 91602	
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	sales@adventchembio.com	
WEBSITE	www.adventchembio.com	
Company Phone Number	<u>+91 77770 84837</u>	

2. HAZARDS IDENTIFICATION:

Hazard classification		
Physical hazards	a hazardous substance or mixture.	
Labels elements	a hazardous substance or mixture.	
Hazard symbol	a hazardous substance or mixture.	
Signal word	a hazardous substance or mixture.	
Hazard statement	a hazardous substance or mixture.	
Precautionary statement		
Prevention	r protective gloves/ protective clothing/ eye protect o away from heat/ sparks/ open flames/ hot surfaces o container tightly closed. Ground/ bond container a	s. No smoking.
Response	N SKIN (or hair): Rinse skin with water/ shower. N EYES: Rinse cautiously with water for several n ent and easy to do. Continue rinsing.	
Storage	e in a dry & well-ventilated place. Keep container t ned must be carefully resealed and kept upright to p	
Disposal	ose of contents/container to an appropriate to ordance with applicable laws and regulations, and osal.	reatment and disposal facility in
Other hazards which do not result in GHS classification	substance/mixture contains no components co ccumulative and toxic (PBT), or very persistent a ls of 0.1% or higher.	

3. COMPOSITION/ INFORMATION ON INGRADIENTS:				
Ingredient	CAS Number	Percent	Hazardous	
L-Ascorbic acid	50-81-7	NLT 99.0%	No	



4. FIRST AID MEASURES:

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General information	:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in
		attendance.
Ingestion	:	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. If breathing stops, provide artificial respiration. If breathing is difficult give oxygen.
Skin contact	:	Flush with plenty of water for at least 15 minutes.
Eye contact	:	Flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.
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 MEASUR	ES:	

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	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 equipmen	precautions for firefighters
Special firefighting procedures Special protective equipment for fire-fighters	Fight fire from a protected location. Move containers from fire area if you can do so without risk. 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



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	spill for later recovery and disposal.
Notification Procedures	Prevent entry into waterways, sewer, basements or confined areas. Inform authorities in 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 STORAG	E:
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 materia from direct sunlight. Take precautionary measures against static discharges. Ground/bonc container and receiving equipment. Use explosion-proor 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	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

EXPOSURE CONTROLS PERSONAL PROTECTION: 8.

Approp	riate	engine	ering
- Abbi obi	iuce	Clignic	CIIIG

controls

: No data available

Individual protection measures, such as personal protective equipment

General information Eye/face protection	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. Wear safety glasses with side shields (or goggles).	
Hand protection	Chemical resistant gloves.	
Other	Wear suitable protective clothing.	
Respiratory protection	In case of inadequate ventilation use suitable respirator. Chemical respirator with organic vapor cartridge.	
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.	



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9. PHYSICAL AND CHEMICAL PROPERTIES:		
Appearance	:	Colourless crystals or white crystalline powder.
Odor	:	Odourless
Solubility	:	Freely soluble in water & ethanol (96%)
Formula	:	C ₆ H ₈ O ₆
Molecular Weight	:	176.13 g/mol
Density	:	1,65 g/cm3 at 20 °C
рН	:	No data available.
% Volatiles by volume @ 21C (70F)	:	No data available.
Boiling Point	:	No data available.
Melting Point	:	190.0 - 192.0 °C
Flash Point	:	Not applicable
Vapor Density (Air=1)	:	No data available.
Vapor Pressure (mm Hg)	:	No data available.
Evaporation Rate (BuAc=1)	:	No data available.
10. STABILITY AND REACTIV	ITY:	
Reactivity		The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally
neactivity	·	correspondingly line distribution, when whined up a dust explosion potential may generally

Chemical stability

Conditions to avoid

Incompatible materials

Hazardous decomposition

reactions

products

Possibility of hazardous

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)			
Oral Product	: LD 50 (Rat): - 11.900 mg/kg		
Dermal Product	: No data available.		

:

: Light.

be assumed.

Copper Acids bases

: In the event of fire: see section 5

: No data available.

: Material is stable under ambient conditions.

Violent reactions possible with: Aluminum Copper alloys Zinc metal ions Oxidizing agents



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Inhalation Product	:	No data available.
Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	No skin irritation
Serious eye damage/eye irritation Product	:	Slight irritation.
Respiratory or skin sensitization Product	:	Not a skin sensitizer.
Carcinogenicity Product	:	This substance has no evidence of carcinogenic properties
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans	:	No carcinogenic components identified.
US. National Toxicology Program (NTP) Report on Carcinogens	:	No carcinogenic components identified.
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050	:	No carcinogenic components identified.
Germ cell mutagenicity	:	No data available.
Reproductive toxicity Product	:	No components toxic to reproduction.
Specific target organ toxicity - single exposure Product	:	No data available.
Specific target organ toxicity - repeated exposure Product	:	No data available.
Aspiration hazard Product	:	No data available.
Other effects	:	No data available.
12. ECOLOGICAL INFORMAT	ΓΙΟΝ	:

Ecotoxicity

Acute hazards to the aquatic environment

Fish Product	: LC 50 - Oncorhynchus mykiss (rainbow trout) - 1.020 mg/l - 96 h
Aquatic invertebrates Product Toxicity to bacteria	 EC 50 - Daphnia magna (Water flea) - 360 mg/l - 48 h EC 50 - Pseudomonas putida - 140 mg/l - 16 h
Toxicity to algae	: IC 50 - Desmodesmus subspicatus (green algae) - 1.750 mg/l - 72 h

Chronic hazards to the aquatic environment



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Fish Product	:	No data available.							
Aquatic invertebrates Product	:	No data available.							
Toxicity to Aquatic Plants Product: Persistence and degradabili	: tv	No data available.							
r ersistenee und degradabili	- 7								
Biodegradation Product	:	Readily elin	minated from water.						
BOD/COD ratio Product	:	No data av	No data available.						
Bioaccumulative potential									
Bioconcentration factor (BCF) Product	:	No data available on bioaccumulation.							
Partition coefficient n- octanol / water (log Kow) Product	:	No data av	ailable.						
Mobility in soil	:	No data av	ailable.						
Other adverse effects	:	Discharge into the environment must be avoided.							
13. DISPOSAL CONSIDERAT	ION:								
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 INFORMAT	FION:								
	UN	No.	UN proper shipping	Hazard	Packaging	Marine			

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
ADR/RID	NA	L-Ascorbic acid	NA	Not dangerous good	ls NA
IMDG	NA	L-Ascorbic acid	NA	Not dangerous good	ls NA
ΙΑΤΑ	NA	L-Ascorbic acid	NA	Not dangerous good	ls 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.



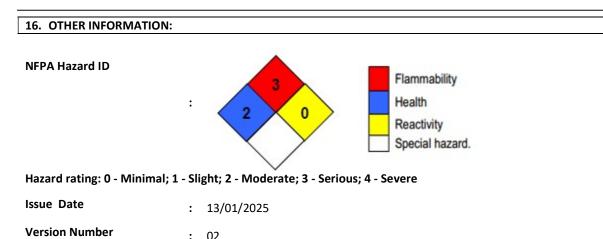
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