

ADVENT CHEMBIO PRIVATE LIMITED

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MATERIAL SAFETY DATA SHEET

Version :02

PRODUCT NAME: FERROUS SULPHATE HEPTAHYDRATE CAS Number: 7792 C2 0

CAS	Number:	//82-63-0	

1. IDENTIFICATION:	
Product Code	: 90411, 90166
Company Name	: ADVENT CHEMBIO PRIVATE LIMITED
Address	W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701, MAHARASHTRA, INDIA.
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2. HAZARDS IDENTIFICATION:

Hazard classification	
Health hazards	
Acute toxicity, Oral	: Category 4
Skin irritation	: Category 2
Eye irritation	: Category 2
Labels elements	:
Hazard symbol	
Signal word	: Warning
Hazard statement	Harmful if swallowed.Causes skin irritation.Causes serious eye irritation
Precautionary statement	
Prevention Response	 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 only non-sparking tools. Take precautionary measures against static discharge. 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 SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Storage	: Store in a dry & well-ventilated place. Keep container tightly closed.



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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.

3. COMPOSITION/ INFORMATION ON INGRADIENTS:			
Ingredient	CAS Number	Percent	Hazardous
Ferrous Sulphate Heptahydrate	7782-63-0	98.0 - 99.0%	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. Move to fresh air. Call a physician or poison control center immediately. If breathing stops,
Inhalation	 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. If easy to do, remove contact lenses. 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	: No data available.
Indication of immediate medical attention and special treatment needed	: No data available.

5. FIRE FIGHTING MEASURES:

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	:	For this substance/mixture no limitations of extinguishing agents are given.
Specific hazards arising from the chemical	:	Sulfur oxides Iron oxides Not combustible. Ambient fire may liberate hazardous vapors.
Special protective equipment and precautions for firefighters		

Special firefighting

: Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting



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procedures	the fire. 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,	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).
protective equipment and	: Avoid breathing mists or vapors. Keep upwind. Ventilate closed spaces before entering
emergency procedures	them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Methods and material for	Eliminate all ignition sources if safe to do so. Use only non-sparking tools. Take
containment and cleaning	precautionary measures against static discharges. Stop leak if possible without any risk.
ир	: 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. 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 only non-sparking tools. Wear protective gloves/protective clothing/eye
Conditions for safe storage, including any incompatibilities	 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. 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. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal.

8. EXPOSURE CONTROLS PERSONAL PROTECTION:

Control parameters	
Appropriate engineering controls	: No data available
Individual protection measur	es, 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.



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Eye/face protection	Wear safety glasses with side shields (or goggles).			
Hand protection	Chemical resistant gloves.			
Other	Wear suitable protective clothing.			
Respiratory protection	case of inadequate ventilation use suitable respirator.			
Hygiene measures	ways observe good personal hygiene measures, such as washing after hand aterial and before eating, drinking, and/or smoking. Routinely wash work cloth otective equipment to remove contaminants. Provide eyewash station and safety roid contact with eyes, skin, and clothing.	ning and		

9. PHYSICAL AND CHEMICAL PROPERTIES:			
Appearance	:	Blue green crystals.	
Odor	:	odorless	
Solubility in water	:	at 25 °C soluble	
Solubility	:	No data available.	
Formula	:	FeSO _{4.7} H ₂₀	
Molecular Weight	:	278.02 g/mol	
Specific Gravity	:	1,898g/cm3 at 25°C	
рН	:	3.0 - 4.0 (5 % aqueous solution)	
% Volatiles by volume @ 21C (70F)	:	No data available.	
Boiling Point	:	300°C	
Melting Point	:	64°C	
Flash Point	:	Not applicable.	
Vapor Density (Air=1)	:	No data available.	
Vapor Pressure (mm Hg)	:	14,6 hPa at 25 °C	
Evaporation Rate (BuAc=1)	:	No data available.	

10. STABILITY AND REACTIVITY:			
Reactivity	:	No data available.	
Chemical stability	:	Material is stable under ambient conditions.	
Possibility of hazardous reactions	:	Increased reactivity with: Bases Oxidizing agents.	

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Conditions to avoid	No data available					
Incompatible materials	No data available.					
Hazardous decomposition products	In the event of fire: see section 5					
11. TOXICOLOGICAL INFORM	TION:					
Information on likely routes	exposure					
Ingestion	No data available.					
Inhalation	No data available.					
Skin contact	Causes mild skin irritation					
Eye contact	Causes serious eye irritation.					
Information on toxicological	fects					
Acute toxicity (list all possible	outes of exposure)					
Oral Product	LD 50 (Rat): 1.520 mg/kg					
Dermal Product	No data available.					
Inhalation Product	No data available.					
Repeated dose toxicity Product	No data available.					
Skin corrosion/irritation Product	Irritating to skin.					
Serious eye damage/eye irritation Product	Irritating to eyes.					
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 Germ cell mutagenicity	No carcinogenic components identified.					
In vitro Product	No data available.					



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Reproductive toxicity Product	:	No components toxic to reproduction.
Specific target organ toxicity - single exposure Product	:	Not known.
Specific target organ toxicity - repeated exposure Product Aspiration hazard Product	:	None known.
	:	No data available.
Other effects	:	None known.

12. ECOLOGICAL INFORMATION:

Ecotoxicity Acute hazards to the aquati	nvironment				
Fish Product	No data available.				
Aquatic invertebrates Product	No data available.				
Chronic hazards to the aqua	environment				
Fish Product	No data available.				
Aquatic invertebrates Product	No data available.				
Toxicity to Aquatic Plants Product:	No data available.				
Persistence and degradabili					
Biodegradation Product	No data available.				
BOD/COD ratio Product	No data available.				
Bioaccumulative potential					
Bioconcentration factor (BCF) Product	No data available on bioaccumulation.				
Partition coefficient n- octanol / water (log Kow) Product	No data available.				
Mobility in soil	No data available.				
Other adverse effects	The product components are not classified as environmentally hazardous. However, the does not exclude the possibility that large or frequent spills can have a harmful or damagine ffect on the environment.				



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 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.

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	F	errous Sulphate Heptahydrate		Not dangerous goods	
IMDG	F	errous Sulphate Heptahydrate		Not dangerous goods	
ΙΑΤΑ	F	errous Sulphate Heptahydrate		Not dangerous goods	

15. REGULATORY INFORMATION:

14. TRANSPORT 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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 16. OTHER INFORMATION:

 NFPA Hazard ID

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