

# MATERIAL SAFETY DATA SHEET

Version:01

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PRODUCT NAME: FERROUS SULPHATE HEPTAHYDRATE CAS Number: 7782-63-0

1. IDENTIFICATION:

**Product Code** : 90411, 90166

Company Name : ADVENT CHEMBIO PRIVATE LIMITED

Address W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE,

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#### 2. HAZARDS IDENTIFICATION:

**Hazard classification** 

**Health hazards** 

Hazard symbol

Signal word

Acute toxicity, Oral : Category 4

**Skin irritation** : Category 2

**Eye irritation** : Category 2

Labels elements :

Hazard statement Harmful if swallowed.

: Causes skin irritation.

Causes serious eye irritation

**Precautionary statement** 

**Prevention**: Obtain special instructions before use.

Warning

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.

**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 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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: Dispose of contents/container to an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product characteristics at time of

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disposal.

Other hazards which do not :

Disposal

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:

IngredientCAS NumberPercentHazardousFerrous Sulphate7782-63-098.0 - 99.0%Yes

4. FIRST AID MEASURES:

Heptahydrate

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.

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

Indication of immediate medical attention and

inedical attention and

special treatment needed

: No data available.

: No data available.

#### 5. FIRE FIGHTING MEASURES:

**General information** : No data available.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

Use extinguishing measures that are appropriate to local circumstances and the surrounding

environment.

Unsuitable extinguishing

media

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

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



procedures

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the fire. Fight fire from a protected location. Move containers from fire area if you can do so

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without risk.

Special protective 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

equipment for fire-fighters

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. 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

gloves/protective clothing/eye
Protection / face protection. Avoid contact with eyes, skin, and clothing. Do not breathe

Conditions for safe storage, including any incompatibilities

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 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.



Hygiene measures

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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** In case of inadequate ventilation use suitable respirator.

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** : Blue green crystals.

Odor : odorless

**Solubility in water** : at 25 °C soluble

**Solubility** : No data available.

Formula : FeSO<sub>4.7</sub>H<sub>20</sub>

Molecular Weight : 278.02 g/mol

Specific Gravity : 1,898g/cm3 at 25°C

**pH** : 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 INFORMATION:

Information on likely routes of exposure

Ingestion : No data available.

Inhalation : No data available.

Skin contact : Causes mild skin irritation

Eye contact : Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible routes 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** 

No carcinogenic components identified.

Risks to Humans

US. National Toxicology

Program (NTP) Report on

: No carcinogenic components identified.

Carcinogens

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

Not known.

**Product** 

Specific target organ

None known.

toxicity - repeated exposure Product

**Aspiration hazard Product** 

No data available.

Other effects

None known.

### 12. ECOLOGICAL INFORMATION:

**Ecotoxicity** 

Acute hazards to the aquatic environment

**Fish Product** 

No data available.

**Aquatic invertebrates** 

**Product** 

: No data available.

Chronic hazards to the aquatic environment

**Fish Product** 

No data available.

Aquatic invertebrates

Product

No data available.

**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

**Bioconcentration factor** 

(BCF) Product

No data available on bioaccumulation.

Partition coefficient n-

octanol / water (log Kow)

: No data available.

**Product** 

Mobility in soil

: No data available.

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.



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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.

## 14. TRANSPORT INFORMATION:

UN No. UN proper shipping Hazard Packaging Marine name Class(es) group Pollutant

DOTFerrous Sulphate HeptahydrateNot dangerous goodsIMDGFerrous Sulphate HeptahydrateNot dangerous goodsIATAFerrous Sulphate HeptahydrateNot dangerous goods

### **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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**16. OTHER INFORMATION:** 

NFPA Hazard ID

: 2 0 Flammability
Health
Reactivity
Special hazard.

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

Issue Date : 04/04/2023

Version : 01

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