Material Safety Data Sheet

Section 1. Product and Company Identification

Product Name Iron II Sulfate Hydrate Product 0039675B

Code

Manufacturer EMD Chemicals Inc. Effective 3/3/2003

P.O. Box 70

480 Democrat Road Gibbstown, NJ 08027

Prior to January 1, 2003 EMD Chemicals Inc. was EM Industries, Inc. or EM Science, Division of

EM Industries, Inc.

For More Information Call856–423–6300 Technical Service

In Case of Emergency Call
800–424–9300 CHEMTREC

Monday-Friday: 8:00 AM - 5:00 PM (USA)

613-996-6666 CANUTEC

(Canada)

24 Hours/Day: 7 Days/Week

Synonym IRON (II) SULFATE HYDRATE EXTRA PURE

Material Uses Analytical reagent.
Chemical Inorganic salt.

Family

Section 2. Composition and Information on Ingredients

Component CAS # % by

Weight

IRON II SULFATE HYDRATE 13463–43–9 100

Section 3. Hazards Identification

Physical State and Solid. (Crystals solid.)

Appearance

Emergency WARNING!

Overview HARMFUL IF SWALLOWED.

CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION.

Routes of Entry Absorbed through skin. Eye contact. Inhalation. Ingestion.

Potential Acute Health

Effects

Eyes Hazardous in case of eye contact (irritant). Inflammation of the eye is

characterized by redness, watering, and itching.

Skin Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Inhalation Hazardous in case of inhalation (lung irritant).

Ingestion Hazardous in case of ingestion.

Potential Chronic Health Effects

Carcinogenic This material is not known to cause cancer in animals or humans.

Effects

Additional information See Toxicological Information (section 11)

Medical Conditions Repeated exposure to a highly toxic material may produce general

Aggravated by deterioration of health by an accumulation in one or many human organs.

Overexposure:

Section 4. First Aid Measures

Eve Contact Check for and remove any contact lenses. In case of contact, immediately

flush eyes with plenty of water for at least 15 minutes. Cold water may be

used. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least

15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention

immediately.

Inhalation If inhaled, remove to fresh air. If not breathing, give artificial respiration.

If breathing is difficult, give oxygen. Get medical attention immediately.

Ingestion If swallowed, do not induce vomiting unless directed to do so by medical

personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical

attention immediately.

Section 5. Fire Fighting Measures

Flammability of the Non-flammable.

Product

Auto-ignition Not applicable.

Temperature

Flash Points Not applicable.
Flammable Limits Not applicable.
Products of Not available.

Combustion

Fire Hazards in Not applicable.

Presence of Various

Substances

Explosion Hazards Risks of explosion of the product in presence of static discharge: No.

in Presence of

Various Substances Risks of explosion of the product in presence of mechanical impact:

No

Fire Fighting Media Not applicable.

and Instructions

Protective Clothing Not applicable.

(Fire)

Special Remarks on Not available.

Fire Hazards

Special Remarks on Not available.

Explosion Hazards

Section 6. Accidental Release Measures

Small Spill and Use appropriate tools to put the spilled solid in a convenient waste

Leak disposal container.

Large Spill and Stop leak if without risk. Do not get water inside container. Do not touch

Leak spilled material. Use water spray to reduce vapors. Prevent entry into

sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface

and allow to evacuate through the sanitary system.

Spill Kit No specific spill kit required for this product.

Information

Section 7. Handling and Storage

Handling Avoid contact with eyes, skin and clothing. Do not ingest. Avoid

breathing dust. Keep container closed. Wash thoroughly after handling.

Keep container in a cool, well-ventilated area. **Storage**

Section 8. Exposure Controls/Personal Protection

Engineering Use process enclosures, local exhaust ventilation, or other engineering **Controls** controls to keep airborne levels below recommended exposure limits. If

user operations generate dust, fume or mist, use ventilation to keep

exposure to airborne contaminants below the exposure limit.

Personal Protection

Eyes Splash goggles.

Body Lab coat.

Respiratory Dust respirator. Be sure to use an approved/certified respirator or

equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.

Feet Not applicable.

Protective Clothing

(Pictograms)

Personal Protection Splash goggles. Full suit. Dust respirator. Boots. Gloves. A

in Case of a Large self-contained breathing apparatus should be used to avoid inhalation of **Spill**

the product. Suggested protective clothing might not be sufficient; consult

a specialist BEFORE handling this product.

Product Name Exposure Limits

IRON II SULFATE HYDRATE Not available.

Section 9. Physical and Chemical Properties

Odor None. White. Color

Physical State and Solid. (Crystals solid.)

Appearance

Molecular Weight Not available. Molecular Formula FeSO4. xH2O Not available. pH **Boiling/Condensation** Not available.

Point

Melting/Freezing Not available.

Point

Not available. **Specific Gravity Vapor Pressure** Not available. **Vapor Density** Not available. **Odor Threshold** Not available. **Evaporation Rate** Not available. LogKow Not available. **Solubility** Soluble in water.

Section 10. Stability and Reactivity

The product is stable.

Stability and Reactivity

Conditions of Not available.

Instability

Incompatibility with Reactive with oxidizing agents, acids, alkalis.

Various Substances

Rem/Incompatibility Not available. **Hazardous** Not available.

 ${\bf Decomposition}$

Products
Hazardous Will not occur.

Polymerization

Section 11. Toxicological Information

RTECS Number:

Iron(II) Sulfate, Hydrate, USP, BP, Not available.

FCC, Ph Helv

Toxicity LD50: Not available.

LC50: Not available.

Chronic Effects on Not available.

Humans

Acute Effects on

Humans

Hazardous in case of eye contact (irritant). Inflammation of the eye is characterized by redness, watering, and itching. Hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. Hazardous in case of inhalation

(lung irritant). Hazardous in case of ingestion.

Synergetic Products Not available.

(Toxicologically)

Irritancy Draize Test: Not available.

Sensitization Not available.

Carcinogenic This material is not known to cause cancer in animals or humans.

Effects

Toxicity to Not available.

Reproductive System

Teratogenic Effects Not available. **Mutagenic Effects** Not available.

Section 12. Ecological Information

Ecotoxicity Not available. **BOD5 and COD** Not available.

Toxicity of the **Products** of

The products of degradation are less toxic than the product itself.

Products of Biodegradation

Section 13. Disposal Considerations

EPA Waste Not available.

Number

Treatment Material does not have an EPA Waste Number and is not a listed waste,

however consultation with a permitted waste disposal site (TSD) should

be accomplished. Always contact a permitted waste disposal (TSD) to assure compliance with all current local, state, and Federal Regulations.

Section 14. Transport Information

DOT Classification Not available. **TDG Classification** Not available. **IMO/IMDG** Not available.

Classification

ICAO/IATA Not available.

Classification

Section 15. Regulatory Information

U.S. Federal **Regulations**

TSCA 8(b) inventory: IRON II SULFATE HYDRATE

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found. SARA 311/312 MSDS distribution – chemical inventory – hazard identification: No products were found.

SARA 313 toxic chemical notification and release reporting: No products were found.

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean air act (CAA) 112 accidental release prevention: No products were found.

Clean air act (CAA) 112 regulated flammable substances: No products were found.

Clean air act (CAA) 112 regulated toxic substances: No products were found.

WHMIS (Canada) Class D-2B: Material causing other toxic effects (TOXIC).

No products were found.

This product has been classifed in accordance with the hazard criteria of the Controlled Product Regulations and the MSDS contains all required information.

International Regulations

> **EINECS** Not available.

DSCL (**EEC**) R37/38– Irritating to respiratory system and skin.

R41- Risk of serious damage to eyes.

International Australia (NICNAS): IRON II SULFATE HYDRATE

Lists

China: No products were found.

State Regulations No products were found.

California prop. 65: No products were found.

Section 16. Other Information

National Fire Fire **Protection** 10 Hazard

Association (U.S.A.)

Health

Reactivity

Specific Hazard

Changed Since Last Revision Notice to Reader

The statements contained herein are based upon technical data that EMD Chemicals Inc. believes to be reliable, are offered for information purposes only and as a guide to the appropriate precautionary and emergency handling of the material by a properly trained person having the necessary technical skills. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use, storage and disposal of these materials and the safety and health of employees and customers and the protection of the environment. EMD CHEMICALS INC. MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE, WITH RESPECT TO THE INFORMATION HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS.