F0992-05  Ferric Ammonium Sulfate, 12-Hydrate  
Effective: 03/09/92

J.T. BAKER INC., 222 Red School Lane, Phillipsburg, NJ 08865

SECTION I - PRODUCT IDENTIFICATION

Product Name: Ferric Ammonium Sulfate, 12-Hydrate
Common Synonyms: Ammonium Iron (III) Sulfate, Dodecahydrate; Ferric Alum; Iron Alum
Chemical Family: Iron Compounds
Formula: FeNH₄(SO₄)₂·12H₂O
Formula Wt.: 482.19
CAS No.: 7783-83-7
NIOSH/RTECS No.: W55900000
Product Use: Laboratory Reagent
Product Codes: 1988

PRECAUTIONARY LABELING

BAKER SAF-T-DATA* System

HEALTH FLAMMABILITY REACTIVITY CONTACT
1 0 0 1
SLIGHT NONE NONE SLIGHT

Laboratory Protective Equipment

U.S. Precautionary Labeling

CAUTION!

MAY CAUSE IRRITATION.
During use avoid contact with eyes, skin, clothing. Wash thoroughly after handling. When not in use keep in tightly closed container.

Continued on Page: 2
Ferric Ammonium Sulfate, 12-Hydrate

Effective: 03/09/92
Issued: 07/10/93

PRECAUTIONARY LABELING (CONTINUED)

International Labeling

Avoid contact with eyes. After contact with skin, wash immediately with plenty of water. Keep container tightly closed.

SAF-T-DATA* Storage Color Code: Orange (general storage)

SECTION II - COMPONENTS

Component: Ferric Ammonium Sulfate Dodehydr.
CAS No.: 7783-83-7
Weight (%): 99-100
OSHA/PEL: 1 mg/m³
ACGIH/TLV: 1 mg/m³

TLU and PEL are for Iron salts, soluble, as Fe.

SECTION III - PHYSICAL DATA

Boiling Point: N/A
Vapor Pressure (mmHg): N/A

Melting Point: 40°C (104°F)
(At 760 mm Hg)
Vapor Density (air=1): N/A

Specific Gravity: 1.71
(H₂O=1)
Evaporation Rate: N/A
(H₂O=1)

Solubility(H₂O): Appreciable (>10%)
% Volatiles by Volume: 0
(21°C)

pH: N/A

Odor Threshold (ppm): N/A
Physical State: Solid

Coefficient Water/Oil Distribution: N/A

Appearance & Odor: Light purple crystals. Odorless.
Ferric Ammonium Sulfate, 12-Hydrate

Effective: 03/09/92
Issued: 07/10/93

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup): N/A
Autoignition Temperature: N/A
Flammable Limits: Upper - N/A Lower - N/A

Fire Extinguishing Media
Use extinguishing media appropriate for surrounding fire.

Special Fire-Fighting Procedures
Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

Unusual Fire & Explosion Hazards
None identified.

Toxic Gases Produced
sulfur dioxide, ammonia

Explosion Data-Sensitivity to Mechanical Impact
None identified.

Explosion Data-Sensitivity to Static Discharge
None identified.

SECTION V - HEALTH HAZARD DATA

Threshold Limit Value (TLV/TWA): 1 mg/m³
TLV is for Iron salts, soluble, as Fe.

Short-Term Exposure Limit (STEL): Not Established

Permissible Exposure Limit (PEL): 1 mg/m³
PEL is for Iron salts, soluble, as Fe.

Toxicity of Components
No information is available
Carcinogenicity: NTP: No IARC: No Z List: No OSHA Reg: No

Continued on Page: 4
Carcinogenicity
None identified.

Reproductive Effects
None identified.

Effects of Overexposure

INHALATION: irritation of upper respiratory tract

SKIN CONTACT: irritation

EYE CONTACT: irritation

SKIN ABSORPTION: none identified

INGESTION: none identified

CHRONIC EFFECTS: none identified

Target Organs
eyes, skin

Medical Conditions Generally Aggravated by Exposure
none identified

Primary Routes of Entry
inhalation, skin contact, eye contact

Emergency and First Aid Procedures

INGESTION: If swallowed and the person is conscious, immediately give large amounts of water. Get medical attention.

INHALATION: If a person breathes in large amounts, move the exposed person to fresh air.

SKIN CONTACT: In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.

EYE CONTACT: In case of eye contact, immediately flush with plenty of water for at least 15 minutes.
SARA/TITLE III HAZARD CATEGORIES and LISTS

Acute: Yes Chronic: Yes Flammability: No Pressure: No Reactivity: No

Extremely Hazardous Substance: No
CERCLA Hazardous Substance: No
SARA 313 Toxic Chemicals: No
TSCA Inventory: Yes

SECTION VI - REACTIVITY DATA

Stability: Stable Hazardous Polymerization: Will not occur

Conditions to Avoid: heat

Incompatibles: none identified

Decomposition Products: ammonia, oxides of sulfur

SECTION VII - SPILL & DISPOSAL PROCEDURES

Steps to be Taken in the Event of a Spill or Discharge
Wear suitable protective clothing. Carefully sweep up and remove.

Disposal Procedure
Dispose in accordance with all applicable federal, state, and local environmental regulations.

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT

Ventilation: Use general or local exhaust ventilation to meet TLV requirements.

Respiratory Protection: None required where adequate ventilation conditions exist. If airborne concentration exceeds TLV, a dust/mist respirator is recommended. If concentration exceeds capacity of respirator, a self-contained breathing apparatus is advised.
F0992 - 05 Ferric Ammonium Sulfate, 12-Hydrate  Page: 6  
Effective: 03/09/92  
Issued: 07/10/93  

SECTION VIII - INDUSTRIAL PROTECTIVE EQUIPMENT (CONTINUED)  

Eye/Skin Protection: Safety goggles, proper gloves are recommended.  

SECTION IX - STORAGE AND HANDLING PRECAUTIONS  

SAF-T-DATA* Storage Color Code: Orange (general storage)  

Storage Requirements  
Keep container tightly closed. Suitable for any general chemical storage area.  

SECTION X - TRANSPORTATION DATA AND ADDITIONAL INFORMATION  

Domestic (D.O.T.)  
Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)  

International (I.M.O.)  
Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)  
Marine Pollutants: No  

AIR (I.C.A.O.)  
Proper Shipping Name: Chemicals, n.o.s. (Non-regulated)  
U.S. Customs Harmonization Number: 28333000003  

N/A = Not Applicable or Not Available  
N/E = Not Established  

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and

Continued on Page: 7
face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.
Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, Baker cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Baker warrants that the chemical meets the specifications set forth on the label.
BAKER DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.
The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Baker will periodically revise this Material Safety Data Sheet.
Note: CHEMTREC, CANUTEC, and NATIONAL RESPONSE CENTER emergency telephone numbers are to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to Customer Service (1-800-JTBAKER) for assistance.
---
COPYRIGHT 1993 J.T.BAKER INC.
* TRADEMARKS OF J.T.BAKER INC.
---
Approved by Quality Assurance Department.