

MATERIAL SAFETY DATA SHEET

12/91

EM SCIENCE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer.....:

EM SCIENCE
A Division of EM Industries
P.O. Box 70
480 Democrat Rd.
Gibbstown, N.J. 08027

Preparation Date.: 01/12/96
Date MSDS Printed.: Jun 14, 1996

Information Phone Number.: 609-423-6300
Hours: Mon. to Fri. 8:30-5
Chemtrec Emergency Number: 800-424-9300
Hours: 24 hrs a day

Catalog Number(s):

AX1384 AX1385 AX1385MB 1209 1211 1217
2150 2160

Product Name.....:

Ammonium Sulfate

Synonyms.....:

Diammonium Sulfate

Chemical Family...:

Inorganic Salt

Formula.....:

(NH4)2SO4

Molecular Weight.:

132.14

EM2

2. COMPOSITION / INFORMATION ON INGREDIENTS

Table with 3 columns: Component, CAS #, Appr %. Row 1: Ammonium Sulfate, 7783-20-2, 100%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

EMITS TOXIC FUMES WHEN HEATED OR IN CONTACT WITH ACIDS.
CAUSES EYE IRRITATION.
MAY CAUSE SKIN IRRITATION.

Appearance.....:

White odorless crystals

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)**Symptoms of Exposure:**

Causes eye irritation on contact.
May cause skin irritation on prolonged or repeated contact.
May be harmful if swallowed in large quantities.
Ingestion may cause hypermotility, diarrhea, nausea or vomiting.

Medical Cond. Aggravated by Exposure:

Data not available.

Routes of Entry.....:

Inhalation, ingestion

Carcinogenicity.....:

The material is not listed (IARC, NTP, OSHA) as cancer causing agent.

4. FIRST AID MEASURES**Emergency First Aid:**

GET MEDICAL ASSISTANCE FOR ALL CASES OF OVEREXPOSURE.

Skin: Wash thoroughly with soap and water.

Eyes: Immediately flush thoroughly with water for at least 15 minutes.

Dust inhalation: remove to fresh air.

Ingestion: If conscious, drink water and induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point (F).....: Noncombustible

Flammable Limits LEL (%): N/A

Flammable Limits UEL (%): N/A

Extinguishing Media.....:

Use any suitable for adjacent material.

Fire Fighting Procedures.:

Wear self-contained breathing apparatus and protective clothing.

Fire & Explosion Hazards.:

Explosion hazard if mixed with potassium or potassium-containing

oxidizers during a fire.

When heated to decomposition it emits very toxic fumes of NO_x , NH_3 , SO_x .

6. ACCIDENTAL RELEASE MEASURES

Spill Response:

Evacuate the area of all unnecessary personnel.

Wear suitable protective equipment listed under Exposure / Personal Protection.

Eliminate any ignition sources until the area is determined to be free from explosion or fire hazards.

Contain the release and eliminate its source, if this can be done without risk.

Take up and containerize for proper disposal as described under Disposal.

Comply with Federal, State, and local regulations on reporting releases. Refer to Regulatory Information for reportable quantity and other regulatory data.

7. HANDLING AND STORAGE

Handling & Storage:

Keep container tightly closed and protected against physical damage.

Store at moderate temperature in a dry, well-ventilated area.

Store away from oxidizers.

Do not breathe dust.

Do not get in eyes.

Avoid prolonged, or repeated, skin contact.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT:

Ventilation, Respiratory Protection, Protective Clothing, Eye Protection
Material should be handled or transferred in an approved fume hood or with adequate ventilation.

Protective gloves (Neoprene, PVC or equivalent) should be worn to prevent skin contact.

Safety glasses with side shields should be worn at all times.

Work / Hygienic Practices:

Wash thoroughly after handling.

Do not take internally.

Eye wash and safety equipment should be readily available.

EXPOSURE GUIDELINES

OSHA - PEL:

Component	TWA		STEL		CL		Skin
	PPM	MG/M ³	PPM	MG/M ³	PPM	MG/M ³	
Ammonium Sulfate							

ACGIH - TLV:

Component	TWA		STEL		CL		Skin
	PPM	MG/M ³	PPM	MG/M ³	PPM	MG/M ³	
Ammonium Sulfate							

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (C 760 mmHg) ..	N/A
Melting Point (C)	>235C Decompose
Specific Gravity (H2O = 1) ..	1.77
Vapor Pressure (mm Hg)	N/A
Percent Volatile by vol (%) :	N/A
Vapor Density (Air = 1)	N/A
Evaporation Rate (BuAc = 1) :	N/A
Solubility in Water (%)	43%
Appearance	
White odorless crystals	

10. STABILITY AND REACTIVITY

Stability

Yes

Hazardous Polymerization:

Does not occur

Hazardous Decomposition.:

Highly toxic fumes including SO_x, NO_x and Ammonia gas

Conditions To Avoid

Heat

Materials To Avoid.....:

- () Water
- (X) Acids
- () Bases
- () Corrosives
- (X) Oxidizers
- (X) Other :

Ammonium Nitrate, Chlorine

11. TOXICOLOGICAL INFORMATION

Toxicity Data:

orl-rat LD50: 3000 mg/kg ipr-mus LD50: 610 mg/kg
 orl-man TDLo: 1500 mg/kg

Toxicological Findings:

None

Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

12. DISPOSAL CONSIDERATIONS

EPA Waste Numbers:

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 DISPOSER (TSD) TO ASSURE COMPLIANCE WITH ALL CURRENT LOCAL, STATE AND FEDERAL REGULATIONS.

13. TRANSPORT INFORMATION

DOT Proper Shipping Name...:
non-regulated

DOT ID Number.....:
none

14. REGULATORY INFORMATION

TSCA Statement

The CAS number of this product is listed on the TSCA Inventory.

Component	SARA EHS (302)	SARA EHS TPQ (lbs)	CERCLA RQ (lbs)
Ammonium Sulfate			

Component	OSHA Floor List	SARA 313	DeMinimis for SARA 313 (%)
Ammonium Sulfate			

15. OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health : 3
 Flammability : 0
 Reactivity : 0
 Special Hazards :

Revision History:

11/01/81 02/01/84 09/24/86 10/27/87 04/28/89 03/01/91 04/28/93
 09/12/95

- | = Revised Section
- N/A = Not Available
- N/E = None Established

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