

MATERIAL SAFETY DATA SHEET
EM SCIENCE

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufacturer.....: Preparation Date.: 3/1/91
EM SCIENCE
A Division of EM Industries Information Phone Number.: 856-423-
6300
P.O. Box 70 Hours: Mon. to Fri. 8:30-5
480 Democrat Road Chemtrec Emergency Number: 800-424-
9300
Gibbstown, N.J. 08027 Hours: 24 hrs a day

Catalog Number(s):
SX0655 6546 SX0654 SX0663

Product Name:
Sodium Nitrate
Synonyms:
Soda Niter
Chemical Family:
Inorganic Salt
Formula:
NaNO3
Molecular Weight.: 84.99

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS #	Appr %
Sodium Nitrate	7631-99-4	100%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.
MAY BE HARMFUL IF SWALLOWED.
DELIQUESCENT.

Appearance:
White crystals, granules or powder; odorless

POTENTIAL HEALTH EFFECTS (ACUTE AND CHRONIC)

Symptoms of Exposure:
May be harmful if swallowed.
Causes nausea, abdominal cramps, headache, diarrhea, convulsions.
May be irritating on contact with skin, eyes or mucous membranes.

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.

Eyes: immediately flush thoroughly with large amounts of water

Skin: Wash thoroughly with soap and water.

Inhalation: Remove to fresh air; give artificial respiration if breathing has stopped.

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) : None

Flammable Limits LEL (%): N/A

Flammable Limits UEL (%): N/A

Extinguishing Media . . :

Water spray or fog

Fire Fighting Procedures:

Wear self-contained breathing apparatus.

Fire & Explosion Hazards:

Explosion may result upon ignition while in contact with easily oxidizable substances.

Explodes @ 1000F.

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.

Store in a cool, dry area away from combustible or easily oxidizable materials

Do not breathe dust.

Do not get in eyes, on skin or on clothing

Retained residue may make empty containers hazardous; use caution!

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/Hygenic 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/M3	PPM	MG/M3	PPM	MG/M3	
Sodium Nitrate							

ACGIH - TLV

Component	TWA		STEL		CL		Skin
	PPM	MG/M3	PPM	MG/M3	PPM	MG/M3	
Sodium Nitrate							

If there are no exposure limit numbers listed in the Exposure Guidelines chart, this indicates that no OSHA or ACGIH exposure limits have been established.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point (C 760 mmHg) : 380C Decomposes
Melting Point (C). : 308C
Specific Gravity (H2O = 1) : 2.26
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 (%). . . : 47%

Appearance :
White crystals, granules
or powder; odorless

10. STABILITY AND REACTIVITY

Stability: Yes

Hazardous Polymerization:
Does not occur

Hazardous Decomposition:
NOx, Na2O

Conditions to Avoid:
-Contact with combustible material
Material is strong oxidizer

Materials To Avoid:

- () Water
- () Acids
- () Bases
- () Corrosives
- () Oxidizers
- (X) Other: Combustible materials, Reducing agents (especially cyanides,metals)

11. TOXICOLOGICAL INFORMATION

Toxicity Data
orl-man LDLo: 114 mg/kg
orl-rbt LD50: 2680 mg/kg

Toxicological Findings:

Tests on laboratory animals indicate material may produce adverse mutagenic effects and cause tumors.
Cited in Registry of Toxic Effects of Chemical Substances (RTECS)

12. DISPOSAL CONSIDERATIONS

EPA Waste Numbers: D001

Treatment:

Specified Technology - Contact your local permitted waste disposal site (TSD) for permissible treatment sites.
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:

Sodium Nitrate

DOT ID Number :

UN1498

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)
Sodium Nitrate			

Component	OSHA Floor List	SARA 313	DeMinimis for SARA 313 (%)
Sodium Nitrate			

If there is no information listed on the regulatory information chart, this indicates that the chemical is not covered by the specific regulation listed.

15. OTHER INFORMATION

Comments:

None

NFPA Hazard Ratings:

Health : 1
Flammability : 0
Reactivity : 0
Special Hazards : OXY

Revision History: 12/1/82 6/1/84 12/4/86 10/27/87 12/19/88

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

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