BOVA SUPPLY CENTER 02-19265

FLINN SCIENTIFIC, INC. Material Safety Data Sheet (MSDS)

MSDS #:

53.00

Revision Date:

March 14, 2001

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Ammonium Chloride

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

SECTION 2 — COMPOSITION, INFORMATION ON INGREDIENTS

Ammonium Chloride

Synonym: ammonium muriate CAS#: 12125.02-9

SECTION 3 — HAZARDS IDENTIFICATION

Odorless, white hygroscopic crystal.

Irritating to body tissues. Avoid breathing dust and body tissue contact. Slightly toxic by

ingestion.

When heated to decomposition, emits toxic fumes of NOx, C1, and NH3.

FLINN AT-A-GLANCE

Health-1 Flammability-0

Reactivity-0

Exposure-1 Storage-1

0 is low hazard, 3 is high hazard

SECTION 4 — FIRST AID MEASURES

Call a physician, seek medical attention for further treatment, observation and support after first aid. Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give large quantities of water. Call a physician or poison control at once.

SECTION 5 — FIRE FIGHTING MEASURES

Non flammable solid.

When heated to decomposition, emits toxic fumes of NOx, C1 and NH3.

Fire Fighting Instructions: Use triclass, dry chemical fire extinguisher. Firefighters should wear

PPE and SCBA with full facepiece operated in positive pressure mode.

NFPA CODE

None

Established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Restrict unprotected personnel from area. Sweep up, place in sealed bag or container and dispose. Ventilate area and wash spill site after material pickup is complete. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Store in a cool dry place. Deliquescent, store in Flinn Chem-Saf bag. Use fume hood when heating.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron. Avoid breathing dust. Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire). Exposure guidelines: TWA 10 mg/m3, STEL 20 mg/m3 (NIOSH, ACGIH)

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ECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

White hygroscopic crystal.

Solubility: Soluble in water, glycerin and alcohol.

Formula: NH4Cl

Formula Weight: 53.50

Specific Gravity: 1.53

Melting Point: 337.8 C

Boiling Point: 520 C

ECTION 10 - STABILITY AND REACTIVITY

Avoid contact with strong acids and bases.
Shelf life: Fair to poor; hygroscopic.

ECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: Irritant Chronic effects: N.A. Target organs: N.A. ORL-RAT LD50: 1650 mg/kg IHL-RAT LC50: N.A.

SKN-RBT LD50: N.A.

[.A. = Not available, not all health aspects of this substance have been fully investigated.

ECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

ECTION 13 — DISPOSAL CONSIDERATIONS

Please consult with state and local regulations. Flinn Suggested Disposal Method #26a is one option.

ECTION 14 — TRANSPORT INFORMATION

Shipping Name: Not regulated

Hazard Class: N/A UN Number: N/A

/A = Not applicable

ECTION 15 — REGULATORY INFORMATION

TSCA-listed EINECS-listed (235-186-4).

ECTION 16 — OTHER INFORMATION

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Consult your copy of the Flinn Chemical Catalog/Reference Manual for additional information about laboratory chemicals