

MATERIAL SAFETY DATA SHEET

SECTION I NAME

Product	AMMONIUM CARBONATE
Chemical Synonyms	Hartshorn
Formula	(NH ₄) ₂ CO ₃
Unit(s) Size	100 grams to 2.5 Kg.
C.A.S. No.	10351-29-2

CHEMTREC
 800-424-9300
 Day 716-226-6177
 Night 716-334-4222
 NFPA
 HAZARD RATING
 LEAST 0 SLIGHT 1 MODERATE 2 HIGH 3 EXTREME 4

SECTION II HAZARDOUS INGREDIENTS OF MIXTURES

Principal Hazardous Component(s)	%	TLV Units
Ammonium Carbonate	100%	See Section V

CAUTION! CAUSES IRRITATION OF EYES, SKIN AND MUCOUS MEMBRANES. DECOMPOSES IN AIR.

SECTION III PHYSICAL DATA

Melting Point (°F)	Sublimation.	Specific Gravity (H ₂ O=1)	Not available.
Boiling Point (°F)	140°F (60°C).	Percent Volatile by Volume (%)	Decomposes.
Vapor Pressure (mm Hg)	Not available.	Evaporation Rate (=1)	Not applicable.
Vapor Density (Air = 1)	3.3		
Solubility in Water	25 grams dissolves in 100 mL. water at 20°C.		
Appearance and Odor	Translucent, hard crystals or cubes. Strong ammonia odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Nonflammable solid.	Flammable Limits in Air, % by Volume	Lower 16% Upper 25%
Extinguisher Media	Use any media for extinguishing the supporting fire.		

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH-approved self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Vaporizes at temperatures of about 140°F (60°C) to give ammonia, a highly irritating fume.

D.O.T.

OTHER REGULATED MATERIAL-A.



FREY SCIENTIFIC
 905 HICKORY LANE MANSFIELD OHIO 44905
 Approved by U.S. Department of Labor "essentially similar" to form OSHA-20

MSDS No.
Effective Date

SECTION V HEALTH HAZARD DATA

Threshold Limited Value

TLV 50ppm NH₃ (Ammonia); TWA 100ppm Ammonia.
LOCA IV 96 mg/Kg. mouse.

009538

Effects of Overexposure

IRITANT. INHALATION-INGESTION: gastrointestinal disturbance, mucous membrane irritation. Inhalation of concentrated vapors causes edema of respiratory tract; spasms of the glottis and asphyxia.

Emergency and First Aid Procedures

In case of contact with skin or eyes, flush thoroughly with water. For eyes get immediate medical attention.
INHALATION: Remove to fresh air. Call a physician.

SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Decomposes on exposure to air with loss of NH ₃ and CO ₂ .
	Stable	X	

Incompatibility (Materials to avoid)

Strong oxidizers, acid and acid salts; salt of iron and zinc.

Hazardous Decomposition Products

Thermal decomposition or burning may produce carbon monoxide and/or carbon dioxide and NO_x and NH₃.

Hazardous Polymerization

May Occur	Will Not Occur	Conditions to Avoid
	X	

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled

Carefully sweep up and place in a suitable container. Flush area with water.

Waste Disposal Method

Dissolve in water and flush down sewer with excess amounts of water. Federal, state and local laws take precedence.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	Work in ventilation hood or wear a NIOSH-approved respirator with ammonia canister if necessary.
Ventilation (Specify Type)	Local Exhaust Recommended. Mechanical (General) Recommended.
Protective Gloves	Rubber.
Other Protective Equipment	Goggles, smock, apron, ventilation hood, proper gloves, eye wash station.
Eye Protection	Chemical safety glasses.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling and Storing

Keep in tightly closed, light-resistant container at a temperature not above 30°C. Decomposes on exposure to air with loss of ammonia and carbon dioxide.

Other Precautions

Read label on container before using. Avoid breathing fumes. Use with adequate ventilation. Wash thoroughly after handling.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Rev. No. No. 1 Date 1/12/87 Approved *Edmund R. Saccidell* Chemical Safety Coordinator

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