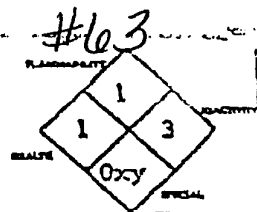




North Health Care
1515 Elmwood Road
Rockford, IL 61103
(815) 877-2531

May be used to comply with
OSHA's Hazard Communication Std.
29CFR 1910.1200 Standard must be
consulted for specific requirements

- 4 = Extreme
- 3 = High
- 2 = Moderate
- 1 = Slight
- 0 = Negligible



Product Name Instant Cold Pak	Synonyms Ammonium Nitrate and Water
Manufacturer's Name Consolidated Products & Services, Inc.	Emergency Telephone Number 617-773-7141 or 613-342-3681
Address (Number, Street, City, State and Zip Code)	Telephone Number for Information 815-877-2531
Arlington Street	Date Prepared 10-19-92
Quincy, MA 02171	Prepared By Phil Rivers

SECTION II - Hazardous Ingredients/Identity Information

Component Name	CAS#	OSHA PEL	ACGIH TLV	%
Ammonium nitrate	6884-32-2		No TLV Established	

Note: This product is a two component system comprised of ammonium nitrate and water. This MSDS refers to the ammonium nitrate content of this system.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS of Ammonium Nitrate

Boiling Point Decomposes °C	210	Specific Gravity (H ₂ O = 1)	20/4°C	1.7
Vapor Pressure (mm Hg.)	N/A	Melting Point °C		169.6
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)		N/A
Solubility in Water 118 g per 100g H ₂ O				
Appearance and Odor White to light tan, odorless, crystalline solid.				

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits N/A	LEL N/A	UEL N/A
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Extinguishing Media Flooding amounts of water. Firefighters should wear self-contained breathing apparatus.

Special Fire Fighting Procedures Keep upright. This is an oxidizing agent which supports combustion and is an explosive hazard if heated under confinement that allows high pressure build-up.

Unusual Fire and Explosion Hazards Prevent contamination of NH₄NO₃ with other combustible materials that may cause possible explosion of the entire mass.

N/A = Not Applicable or Not Available

NE = Not Established

SECTION V - Reactivity Data - Unstable under fire conditions.

Stability Strong Oxidizing Agent	Unstable		Conditions to Avoid Elevated temperatures. Store at room temperature. Keep away from incompatible materials below . . . explosion hazard.
	Stable	X	
Incompatibility (Materials to Avoid) Strong alkalis, diesel oil, powdered metals and organic substances or flammable liquids.			
Hazardous decomposition or byproducts Toxic gases or nitrogen oxides are given off upon heating.			
Hazardous Polymerization N/A	May Occur		Conditions to Avoid N/A
	Will Not Occur		

SECTION VI - Health Hazard Data

Route(s) of Entry	Inhalation?	Skin?	X	Ingestion
Health Hazards (Acute and Chronic) Acute local: Slight irritant, allergen (inhalation)				
Chronic local: Slight irritant, allergen (inhalation)				
Carcinogenicity:	NTP?	No	ARC Monographs?	No
			OSHA Regulated?	No
Signs and Symptoms of Exposure Skin irritation. Acute respiratory problem if individual breathes nitrogen oxides when material is heated to high temperatures.				
Medical Conditions Generally Aggravated by Exposure None Known.				
Emergency and First Aid Procedures Eye: Flush with running water. Skin: Flush with water. Wash with soap and water. Inhalation: Remove to fresh air. Restore/support breathing. Ingestion: Seek medical attention.				

SECTION VII - Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled	Remove sources of heat or ignition. Sweep into a noncombustible container and dissolve in a large amount of water. Add soda ash. Mix and neutralize with 6M-HCl.
Waste Disposal Method	Consult Current Local, State and Federal Regulations
Precautions to Be Taken in Handling and Storing	Provide general exhaust ventilation. Wear rubber gloves and chemical goggles if situation warrants.
Other Precautions	Dust respirators should be available if situation warrants.

SECTION VIII - Control Measures

Respiratory Protection (Specify Type) Dust respirator when warranted			
Ventilation	Local Exhaust	X	Special
	Mechanical (General)		Other
			N/A
Protective Gloves	When warranted, rubber	Eye Protection	When warranted, chemical goggles
Other Protective Clothing or Equipment	N/A		
Work/Hygenic Practices Avoid breathing dust. Avoid contact with eyes, skin or clothing.			

The information and recommendations set forth herein are taken from sources believed to be accurate as of the date hereof, however, North Health Care makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.

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