

U.S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration
MATERIAL SAFETY DATA SHEET

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

SECTION I

MANUFACTURER'S NAME/REPACKAGED BY: Certified Safety Manufacturing, Inc.	TELEPHONE NO. (816) 483-9090
ADDRESS: 1400 Chestnut Avenue Kansas City, Missouri 64127	
IDENTITY (AS USED ON LABEL): Cold Pack	DATE PREPARED: 12/23/09
	DATE REVIEWED:

SECTION II – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Name(s)):			
	%	OSHA PEL	ACGIH TLV
Ammonium Nitrate (NH4 NO3) CAS# 6484-52-2	98-100%	None Established	None Established
THIS PRODUCT IS PRODUCED AS A HEALTH CARE ITEM "FOOD, DRUG OR COSMETIC, INTENDED FOR PERSONAL CONSUMPTION BY EMPLOYEES WHILE IN THE WORKPLACE" TO WHICH THE HAZARDOUS COMMUNICATIONS REQUIREMENTS OF; 29CFR1910.1200 (A) & (B) DO NOT APPLY, AS SPECIFICALLY STATED IN 29CFR 1910.1200 (B) (5) (V)			

SECTION III – PHYSICAL DATA

BOILING POINT (°F):	350 to 410°	SPECIFIC GRAVITY (H₂O= 1):	1.72
VAPOR PRESSURE (mm Hg.):	N/A	MELTING POINT:	170° c
VAPOR DENSITY (AIR=1)	N/A	EVAPORATION RATE: (Butyl Acetate=1)	N/A
SOLUBILITY IN WATER:	192 g/100ml@20° C	DENSITY (POWDERED BULK DENSITY):	0.72-1.00g/cc
APPEARANCE AND ODOR: White to off-white, solid prills or fine granules; Slight ammonia odor.			

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used): N/A	FLAMMABLE LIMITS:	LEL:	UEL:
		No Data	
EXTINGUISHING MEDIA: Use water only. Do not attempt to smother. Do not use salt water, dry chemical, carbon dioxide, steam or foam.			
SPECIAL FIRE FIGHTING PROCEDURES: Fight only small fires in initial stages when not confined. Immediately ventilate structures and transport containers to minimize confinement and prevent pressure buildup that increases the possibility of explosion. In advanced stage, or for any large fire or fire engulfing confining containers, abandon firefighting efforts and quickly evacuate all personnel to a safe distance of at least 2,500 feet. Use large quantities of water to cool. If possible, plug drains or dike channels to prevent either molten material or water runoff from entering storm drains or surface waters. Firefighters should wear self-contained breathing apparatus (SCBA) and full turnout gear.			
UNUSUAL FIRE AND EXPLOSION HAZARDS: May explode or detonate under confinement and high temperatures. Ammonium nitrate emits toxic nitrogen oxides when heated to decomposition and will release ammonia to air upon reaction with strong alkalis. Explodes more easily if contaminated with organic materials or other fuels.			

SECTION V – REACTIVITY DATA

STABILITY:	STABLE	√	CONDITIONS TO AVOID: None known
INCOMPATIBILITY (Materials to avoid): Flammable liquids, organic solvents and materials, explosives, metal powders, explosives and other combustible materials. Corrosives (strong acids and strong bases).			
HAZARDOUS	MAY OCCUR		CONDITIONS TO AVOID: Keep away from heat, flame,

POLYMERIZATION:	WILL NOT OCCUR	√	ignition sources, and strong shock.
HAZARDOUS DECOMPOSITION PRODUCTS: Nitric oxide fumes			

SECTION VI – HEALTH HAZARD DATA			
ROUTE(S) OF ENTRY: INHALATION?:	N/A	SKIN?:	N/A
HEALTH HAZARDS: (Chronic and Acute):	N/A		
CARCINOGENICITY: NTPO?:	No	IARC MONOGRAPHS?:	No
OSHA REGULATED?:	No		
SIGNS AND SYMPTOMS OF EXPOSURE: Eyes: May cause redness, pain and irritation. Skin: May irritate resulting in redness of the skin. .			
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Inhalation – Overexposure to extremely dusty area may irritate the respiratory tract.			
EMERGENCY AND FIRST AID PROCEDURES: Eye Contact: Flush with large amounts of water for at least 15 minutes. Seek medical attention if redness and/or pain continue. Ingestion: If swallowed, contact a poison control Center.			

SECTION VII – SPILL OR LEAK PROCEDURES
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Protect for all ignition sources. In case of large fire or fire engulfing containers, evacuate an area not less than 2,500 feet in all direction. If possible, plug drains or dike channels to prevent either molten material or water runoff from entering storm drains or surface water. Notify authorities in accordance with emergency response procedures. Only personnel trained in emergency response should respond. If no fire danger is present, and product is undamaged and/or uncontaminated, repackage product in original packaging or other clean DOT approved container. Ensure that a complete account of product has been made and is verified. Follow applicable federal, state, and local spill reporting requirements. Contact of this product with water may result in a reportable release.
WASTE DISPOSAL METHODS FOR BULK AMMONIUM NITRATE: Disposal must comply with federal, state and local regulations. Ammonium nitrate is used as a fertilizer and, in some cases; recovered material may be put to beneficial use. If product becomes a waste, it is potentially regulated as a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR, part 261. Review disposal requirements with a person knowledgeable with applicable environmental law (RCRA) before disposing of any hazardous material.

SECTION VIII – SPECIAL PROTECTION INFORMATION		
RESPIRATORY PROTECT (<i>specify type</i>) Wear NIOSH approved respirator when airborne exposure limits for nuisance dust are exceeded. Refer to OSHA standard 1910-134 for proper selection and use of respirators.		
VENTILATION: Not required for normal handling	LOCAL EXHAUST: √	SPECIAL: None
	MECHANICAL (<i>General</i>): None	OTHER: None
PROTECTIVE GLOVE: During cleanup	EYE PROTECTION: Safety glasses or goggles	
OTHER PROTECTIVE EQUIPMENT: Wear long sleeved clothing and protective gloves to prevent prolonged and repeated skin contact.		

SECTION IX – SPECIAL PRECAUTIONS
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Store in cool, dry, non-combustible buildings and avoid contamination. Automatic sprinklers are appropriate. Keep separate from other chemicals and combustible materials. Refer to applicable fire and building codes.
OTHER PRECAUTIONS: Drain in storage area should be plugged to prevent entry of molten material during fire conditions.

THIS INFORMATION AND RECOMMENDATIONS HEREIN ARE TAKEN FROM SOURCES BELIEVED TO BE ACCURATE AS OF THE DATE, HOWEVER CERTIFIED SAFETY MAKES NO WARRANTY WITH RESPECT TO THE ACCURACY OF THIS INFORMATION OR THE SUITABILITY OF THE RECOMMENDATIONS, AND ASSUMES NO LIABILITY TO ANY USE THEREOF.....