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Material Safety Data Sheet
AMMEX ice packs, product codes:
B503-WIP, FAO-ICE 4X5/JR, FAO-ICE6X9
FAO-ICE6X9/BB

MATERIAL SAFETY DATA

Date: 05/14/2008
Supersedes: 07/23/04

**PRODUCT
IDENTIFICATION**

NAME: Instant Cold Compress
SYNONYMS: instant cold pack, instant ice pack, ice pack
CHEMICAL FAMILY: cold therapy
MOLECULAR FORMULA: Mixture
MOLECULAR WGT.: Mixture

**OSHA
REGULATED
COMPONENTS**

COMPONENT	CAS. NO.	%	PEL/TWA	REFERENCE
Ammonium Nitrate	6484-52-2	40-70	//	OSHA/ ACGIH
water	7732-18-5	30-60	//	OSHA/ ACGIH

Fire-Fighting Measures: FLASH POINT: non-sense
MELTING POINT: 169.6C (337.28F)
METHOD: Closed Cup

**HEALTH HAZARD
INFORMATION**

EFFECTS OF OVER EXPOSURE: Effects of overexposure may include irritation of the nose, throat and digestive tract; coughing, nausea, vomiting, diarrhea, abdominal pain, breathing difficulties, and blood disorders (methemoglobinemia).

FIRST AID Measures:

Skin: Remove contaminated shoes and clothing, and flush affected area(s) with large amounts of water. If skin surface is damaged, apply a clean dressing and seek medical attention. If skin surface is not damaged, cleanse affected area(s) thoroughly by washing with mild soap or water. If irritation or redness develops, seek medical attention.

Inhalation (Breathing): If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek medical attention. If victim is not breathing, clear airway and immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Ingestion (Swallowing): If swallowed, seek emergency medical attention. If victim is drowsy or unconscious and vomiting, place on left side with the head down and do not give anything by mouth. If victim is conscious and alert and ingestion occurred within the last hour, vomiting should be induced for ingestion of large amounts (more than 5 ounces in an adult) under direction from a physician or poison center. If possible, do not leave victim unattended and observe closely for adequacy of breathing.

For fires beyond the incipient stage, emergency responders in the immediate hazard area should wear bunker gear. When the potential chemical hazard is unknown, in enclosed or confined

spaces, or when explicitly required by DOT, a self-contained breathing apparatus should be worn. In addition, wear other appropriate protective equipment as conditions warrant (see Section 8). Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done with minimal risk. Move undamaged containers from immediate hazard area if it can be done with minimal risk. Water spray may be useful in minimizing or dispersing vapors. Cool equipment exposed to fire with water, if it can be done with minimal risk.

**EXPOSURE
CONTROL METHODS**

Engineering controls are not usually necessary if good hygiene practices are followed. Before eating, drinking, or smoking, wash face and hands thoroughly with soap and water. Avoid unnecessary skin contact. Impervious gloves are recommended to prevent prolonged skin contact. For operations where eye or face contact can occur, eye protection is recommended.

**HAZARD
INFORMATION**

FLAMMABLE LIMITS

(% BY VOL): Not Applicable

AUTO IGNITION TEMP.: Not Available

DECOMPOSITION TEMP.: Not Available

REACTIVITY:

Chemical Stability: Stable under normal conditions of storage and handling. Dry chemical is an oxidizer and may promote combustion in other materials.

Conditions To Avoid: This material may be an oxidizer. Do not heat above 250°F. Do not let dry chemical or solution dry or crystallize in contact with organic, reactive, or combustible materials (see Sections 7).

Incompatible Materials: Avoid contact with reactive, combustible, or organic materials, such as wood, grain, organic chemicals, acids, corrosive liquids, sulfur, flammable liquids, chlorates, permanganates, finely divided materials, charcoal, coke, cork, or sawdust. Avoid contact with other oxidizers. Contact with alkaline materials may liberate ammonia.

Hazardous Decomposition Products: Material will not burn, but if involved in a fire, oxides of nitrogen may be generated. Exposure to heat may liberate ammonia fumes.

Hazardous Polymerization: Will not occur.

**PHYSICAL
PROPERTIES**

Note: Unless otherwise stated, values are determined at 20°C (68°F) and 760 mm Hg (1 atm).

Flash Point: None

Flammable/Explosive Limits (%): LEL/UEL: No data

Autoignition Temperature: No data

Appearance: White solid in water bag

Physical State: solid/Liquid

Odor: None

pH: No data

Vapor Pressure (mm Hg): No data

Boiling Point: No data

Freezing/Melting Point: No data

Solubility in Water: 100%

Specific Gravity: approx 1.3

Evaporation Rate (nBuAc=1): No data

**SPILL OR LEAK
PROCEDURES**

The dry chemical of this material is an oxidizer. Keep all sources of ignition and hot metal surfaces away from spill/release. The use of explosion-proof equipment is recommended. Stay upwind and away from spill/release. Notify person down wind of spill/release, isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done

with minimal risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see Section 8). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Notify appropriate federal, state, and local agencies. Immediate cleanup of any spill is recommended.

WASTE DISPOSAL Disposal must be made in accordance with applicable governmental regulations.

SPECIAL PRECAUTIONS

Handling: Do not enter confined spaces such as tanks or pits without following proper entry procedures such as ASTM D-4276 and 29CFR 1910.146. The use of appropriate respiratory protection is advised when concentrations exceed any established exposure limits (see Section 2 and 8). Wash thoroughly after handling. Do not wear contaminated clothing or shoes. Use good personal hygiene practice.

"Empty" containers retain residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Container should be disposed in an environmentally safe manner and in accordance with governmental regulations.

Before working on or in tanks which contain or have contained this material, refer to OSHA Regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, welding, or other contemplated operations.

Storage: Use and store this material in cool, dry, well-ventilated areas away from heat and all sources of ignition. Post area "No Smoking or Open Flame." Solution is corrosive to copper, copper alloys, lead, and zinc. Store to avoid contact with incompatible materials such as ordinary combustibles, flammable liquids, greases, and those materials, including other oxidizers, that could react with the oxidizer or catalyze its decomposition (see Section 10). Prohibit accumulation of combustible waste in storage areas. Combustible construction materials that may be in contact with oxidizers shall be protected with a compatible coating to prevent impregnation of the combustible materials by the oxidizers. Protect container(s) against physical damage.

D.O.T. SHIPPING INFORMATION

PROPER SHIPPING
NAME:

CONSUMER COMMODITY

HAZARD CLASS:

ORM-D

UN/NA:

NOT APPLICABLE

SUBSTANCES:

Ammonium Nitrate (120g 50%)
Water (120g 50%)

LABEL REQUIRED:

NOT APPLICABLE

NOT AN ACCEPTABLE CLASSIFICATION WHEN USING IATA DANGEROUS GOODS REGULATIONS

TSCA INFORMATION

This product is manufactured in compliance with all provisions of the Toxic

Substances Control Act, 15 U.S.C.

TOXICOLOGICAL INFORMATION

No definitive information available on carcinogenicity, mutagenicity, target organs or developmental toxicity.

Disposal

This material, if discarded as produced, may be a RCRA "characteristic" hazardous waste due to the

Consideration: characteristic(s) of ignitability (D001). If the material is spilled to soil or water, characteristic testing of the contaminated materials is recommended. To assure proper disposal, consult with state and local regulations and disposal authorities.

REGULATORY INFORMATION
This material contains the following chemicals subject to the reporting requirements of **SARA 313** and 40 CFR 372.

COMPONENT	CAS NUMBER
Ammonia (includes anhydrous ammonia and aqueous ammonia from water dissociable ammonium salts and other sources; 10 percent of total aqueous ammonia is reportable under this listing)	7446-41-7
Water dissociable nitrate compounds	None

Warning: This material contains the following chemicals which are known to the State of California to cause cancer, birth defects or other reproductive harm, and are subject to the requirements of **California Proposition 65** (CA Health & Safety Code Section 25249.5)

This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

**PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA
NOT APPLICABLE UNDER SARA TITLE III**

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