

# COLD RUSH INSTANT COLD PACK

MSDS NO. : 0100

## TECNOL Inc.

### MATERIAL SAFETY DATA SHEET

**COLD RUSH INSTANT COLD PACK**  
33075 (large); 33050 (medium); 33025 (small)

MSDS NO: 0100

#### SECTION 1: PRODUCT AND COMPANY IDENTIFICATION.

TECNOL Inc.  
7201 Industrial Park Blvd.  
N. Richland Hills, TX 76180

Information Telephone (817) 577-6453  
Chemtrec Emergency Telephone (800) 424-9300

Product Name: Cold Rush Instant Cold Pack 33025; 33050; 33075

#### SECTION 2: COMPOSITION AND INFORMATION ON INGREDIENTS.

##### COMPOSITION:

Ammonium Nitrate Fertilizer  
Formula:  $\text{NH}_4\text{NO}_3$

Water:  
Formula:  $\text{H}_2\text{O}$

##### HAZARDOUS INGREDIENTS:

Ammonium Nitrate CAS# 6484-52-2

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## SECTION 3: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW FOR AMMONIUM NITRATE:

Colorless to off-white prills, trace of ammonia odor.

Danger: Strong Oxidizer. Contact with other materials may cause fire.

Explosive if mixed with organic matter. Unstable under high temperature.

WARNING: Overexposure can cause skin rash.

### POTENTIAL HEALTH HAZARDS OF AMMONIUM NITRATE:

EYE: Can cause irritation with discomfort or blurred vision.

SKIN: Irritation with discomfort or rash.

INGESTION: Causes abdominal spasms, nausea and pain.

INHALATION: Irritating to mucous membranes. Causes lung congestion.  
Delayed reactions may involve pulmonary edema.

## SECTION 4: FIRST AID MEASURES.

EYE: Immediately flush with water for at least 15 minutes.  
Contact a physician immediately.

SKIN: Flush skin with large amounts of water. Remove contaminated clothing.

INGESTION: Give large amount of water. Induce vomiting with caution.  
Never give anything by mouth to an unconscious or convulsing person.  
Contact a physician.

INHALATION: Remove to fresh air. Contact a physician. Observe for delayed effects.

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## SECTION 5: FIRE FIGHTING MEASURES

### FLAMMABLE PROPERTIES:

Ammonium nitrate is a strong oxidizing agent and will support combustion in the absence of oxygen. Spontaneous ignition at moderately elevated temperatures can occur when ammonium nitrate is mixed with oxidizable materials such as wood, charcoal, sulfur, finely divided metals and organics.

### EXTINGUISHING MEDIA:

Flood with water. Do not use CO<sub>2</sub>, dry chemicals, or foam.

Ammonium nitrate releases oxides when heated and smothering will not extinguish ammonium nitrate fires.

### FIRE AND EXPLOSION HAZARDS:

Can ignite explosively when in contact with other materials.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Combustion will release ammonia and oxides of nitrogen.

### FIRE FIGHTING EQUIPMENT:

Fire fighters should wear self-contained breathing apparatus.

## SECTION 6: ACCIDENTAL RELEASE MEASURES.

Contain spill.

Nitrate contaminated with any combustible material may present a fire and explosion hazard.

Dilute contaminated ammonium nitrate with water to 50% or less.

Keep combustible (woods, paper, oil, etc...) away from spill.

Use appropriate personal protective equipment.

Notify authorities.

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## SECTION 7: HANDLING AND STORAGE

### HANDLING:

1. Do not mix ammonium nitrate with other organic material.
2. Keep ammonium nitrate away from heat, sparks and flame.
3. No smoking near this material. In the event of a spill or release:
4. Do not get in eyes, on skin or clothing.
5. Do not ingest.
6. Do not inhale dust.
7. Sweep up and dispose of all spilled material promptly.
8. Wash thoroughly after handling.
9. Remove and wash contaminated clothing promptly.

### STORAGE:

10. Avoid contamination.
11. Store in cool ventilated area away from fire hazards.
12. Keep separate from other chemicals and combustible material.
13. Automatic sprinklers are appropriate.
14. Stored ammonium nitrate is subject to local regulations.

(Refer to applicable fire and building codes.)

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION.

### RESPIRATORY PROTECTION:

Respiratory protection is not needed in normal use of this product. However, in the event of a spill or release, wear a NIOSH approved respirator with appropriate cartridges when airborne exposure limits for nuisance dust are exceeded. Refer to the OSHA Respirator Standard 29 CFR 1910.134 for proper selection and use of personal respirators.

### SKIN PROTECTION:

Skin protection is not needed in normal use of this product. However, in the event of a spill or release, wear long sleeved clothing and protective gloves to prevent prolonged or repeated skin contact.

Refer to the OSHA General Requirements for Personal Protective Equipment 29 CFR 1910.132.

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## EXPOSURE CONTROL/PERSONAL PROTECTION (continued...)

### EYE PROTECTION:

Wear chemical safety goggles and provide eye wash baths when direct eye contact is likely.  
Refer to OSHA Requirements for Eye and Face Protection 29 CFR 1910.133.

### EXPOSURE GUIDELINES:

OSHA and ACGIH have not established exposure limits for ammonium nitrate.  
However, OSHA and ACGIH have established limits for nuisance dusts  
(particulates not otherwise specified -- PNOC).

	OSHA -- PEL		ACGIH --TLV
	8 hr TWA		8 hr TWA
Total Dust:	15mg/m <sup>3</sup>	Inhalable Dust:	10mg/m <sup>3</sup>
Respirable Dust:	5mg/m <sup>3</sup>	Respirable Dust:	3mg/m <sup>3</sup>

Exposures to ammonium nitrate should be kept below these limits.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES OF AMMONIUM NITRATE.

Appearance.....	Colorless to off-white prills.
Odor.....	Trace of ammonia odor.
pH.....	Not applicable. *
Flashpoint.....	Not applicable.
% Solids.....	100%
% Volatiles.....	0%
Solubility.....	Very soluble in water.
Melting Point.....	169 deg C.
Decomposition Temperature.....	210 deg C.
Vapor Density.....	Not applicable.
Vapor Pressure.....	Not applicable.

\* The average pH of the *activated* solution is 6.0

## SECTION 10: STABILITY AND REACTIVITY OF AMMONIUM NITRATE.

### STABILITY:

Ammonium nitrate is unstable under high temperature and near open flames, organic materials or explosives.

### INCOMPATIBILITY:

Organic materials, metal powders, flammable liquids, explosives and any ignition source.

### HAZARDOUS DECOMPOSITION PRODUCTS:

Ammonia, oxides of nitrogen and nitrogen gas.

### HAZARDOUS POLYMERIZATION:

Does not occur.

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## SECTION 11: TOXICOLOGICAL INFORMATION OF AMMONIUM NITRATE

### ACUTE:

Oral LD-50 (rat).....	5300 mg/kg practically non-toxic.
Dermal LD-50 (rabbit).....	7940 mg/kg practically non-toxic.
Eye Irritation (rabbit).....	FHSA Score=9.4 (scale of 110) slightly irritating.
Dermal Irritation (rabbit).....	FHSA Score=2.8 (scale of 8.0) slightly irritating.

Can cause eye and skin irritation and possible chemical burns. Inhalation of dust may cause severe lung congestion and delayed reactions resulting in pulmonary edema and chemical pneumonitis. Ingestion of large doses may cause systemic acidosis and methemoglobinemia.

### CHRONIC:

Prolonged and repeated exposure may cause skin dermatitis, kidney damage and conjunctivitis. Exposure may aggravate pre-existing dermatitis and kidney and lung conditions. Ammonium nitrate is not classified as a carcinogen by IARC, NTP or OSHA.

### TARGET ORGANS:

Eyes, skin, mucous membranes.

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## SECTION 12: ECOLOGICAL INFORMATION.

Ammonium nitrate is a plant nutrient, however, it can kill vegetation and fish and cause eutrophication if waterways are contaminated.

## SECTION 13: DISPOSAL CONSIDERATIONS.

Sweep or scoop up spilled material. Flush area with copious quantities of water. Dilute spill to at least 50%. Do not allow contact with combustible materials. Spilled dry material or water solutions of ammonium nitrate can be distributed on land as fertilizer or flushed away with copious amounts of water. Consult with federal, state or local authorities for additional or alternative requirement.

## SECTION 14: REGULATORY INFORMATION.

### CERCLA SUPERFUND, 40 CFR 117.302

There are no reportable quantities for accidental releases of this product under the Comprehensive Environmental Response, Compensation and Liability Act.

### SARA HAZARD CATEGORY:

Under Sections 311 and 312 of the Superfund Amendment and Re-authorization Act of 1986 (SARA Title III) this product is considered to meet the following categories:

Fire Hazard.....	Yes
Sudden Release of Pressure.....	No
Reactivity Hazard.....	No
Acute Health Hazard.....	Yes
Chronic Health Hazard.....	Yes

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## SECTION 14: REGULATORY INFORMATION (CONTINUED).

### SARA 313 INFORMATION:

This product contains no substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Re-authorization Act of 1986 (40 CFR Part 372).

### TOXIC SUBSTANCES CONTROL ACT (TSCA):

This chemical is listed on the TSCA Inventory.

## SECTION 15: OTHER INFORMATION.

### HAZARD RATINGS:

	HMIS	NFPA
Health.....	1	1
Flammability.....	0	0
Reactivity.....	3	3
Special Hazard.....	Oxidizer	

0 = minimal    1 = slight    2 = moderate    3 = serious    4 = severe

This MSDS has been prepared in compliance with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

REVISION DATE 07/01/97