

# KINEPAK SOLID

## Material Safety Data Sheet

SEC Investments Corp. LLC.

5700 N. Portland, Suite 301 / Oklahoma City, OK 73112 / Phone: (405) 947-0765 / Fax: (405) 947-0768

<u>SECTION 1 - PRODUCT INFORMATION</u>		<u>SECTION 2 - HEALTH ALERT</u>	
TRADE NAME:	Ammonium Nitrate	DANGER - If misused or disposed of improperly, material could explode and cause death or serious injury.	
SYNONYM:	AN	DO NOT HANDLE WHEN IN DOUBT!!	
CHEMICAL FAMILY:	Nitrate	**See section VIII - Personal Protection**	
FORMULA:	NH4 NO3	CHEM-TEL, INC. (800) 255-3924.	
CAS NUMBER:	6484-52-2		
UN/NA NUMBER:	UN1942		
DOT HAZARD CLASS:	5.1		

### SECTION 3 - HEALTH HAZARD INFORMATION

**EYE:** Moderate irritant causing moderate initial pain.

**SKIN:** May cause moderate irritation characterized by redness and pain.

**INHALATION:** Inhalation of decomposed products may irritate the respiratory tract. Prolonged exposure to these fumes may result in respiratory difficulties (shortness of breath, etc.) and possibly more severe toxic effects.

**INGESTION:** Swallowing may cause toxicity characterized by dizziness, bluish skin coloration, methemoglobinemia, unconsciousness, abdominal spasms, nausea, and pain.

### SECTION 4 - EMERGENCY AND FIRST AID PROCEDURES

**EYE CONTACT:** Flush with large amounts of water. Seek medical aid. **SKIN CONTACT:** Remove contaminated clothing. Wash skin thoroughly with soap and water. Seek Medical Aid immediately. **INHALATION:** Remove from exposure. If breathing stops or is difficult, administer artificial respiration or oxygen. Seek medical aid.

**INGESTION:** Give 1 cup of water to dilute material. Do not induce vomiting. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomit, rinse mouth and administer more water. Seek medical aid IMMEDIATELY.

### SECTION 5 - RECOMMENDED OCCUPATIONAL EXPOSURE LIMIT/ HAZARDOUS INGREDIENTS

**EXPOSURE LIMIT (PRODUCT):** None required for product.

<u>HAZARDOUS INGREDIENTS</u>	<u>PERCENT</u>	<u>EXPOSURE LIMIT</u>	<u>CAS No.</u>
Ammonium Nitrate	96-100%	Not Listed	6484-52-2

### SECTION 6 - REACTIVITY DATA

**CONDITIONS CONTRIBUTING TO INSTABILITY:** Heat (confinement); Stacking (burning). **INCOMPATIBILITY:** Avoid materials that can be oxidized, metal powder, copper, bronze, fuels (e.g. lubricants, machine oils), Fluorocarbon lubricants, acids, corrosive liquids, chlorates, sulphur, charcoal, coke and other finely divided combustibles.

**HAZARDOUS REACTION / DECOMPOSITION PRODUCTS:** Toxic gases and vapors (oxides of nitrogen) will be released by thermal decomposition (about 210° C). At higher temperatures, decomposition may be explosive, especially if confined.

**CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION:** Not applicable.

### SECTION 7 - FIRE AND EXPLOSION HAZARD INFORMATION

**FLASH POINT & METHOD:** NA **AUTO IGNITION TEMPERATURE:** Explodes

**FLAMMABLE LIMITS (% BY VOLUME/AIR):** LOWER: NA UPPER: NA **EXTINGUISHING MEDIA:** Water only

**FIRE-FIGHTING PROCEDURES:** Large quantities of water should be used to cool containers, cool and dilute the burning material. A water spray can also be used to knock down fumes.

**FIRE & EXPLOSION HAZARDS:** Attempts to smother a fire involving this product will be ineffective as it is its own oxygen source. Smothering could lead to decomposition and explosions. This product is more sensitive if contaminated with organics, or materials that can be oxidized or if heated while confined. Unless the mass of product on fire is flooded with water, re-ignition is possible.

# KINEPAK SOLID

## Material Safety Data Sheet

### SECTION 8 - PERSONAL PROTECTION INFORMATION

**EYE PROTECTION:** Safety glasses approved for preventing eye contact.

**SKIN PROTECTION:** Neoprene, natural rubber, polyethylene or polyvinyl chloride gloves. Use barrier creams, hand protection and protective clothing.

**RESPIRATORY PROTECTION:** A NIOSH/MSHA- approved dust respirator, if concentrations in air are unknown or in excess of established exposure guidelines.

**VENTILATION:** Maintain adequate ventilation. Use of local exhaust required.

### SECTION 9 - PERSONAL HANDLING INSTRUCTIONS

**HANDLING:** Explosives should not be abandoned at any location for any reason. Do not handle during electrical storms. **STORAGE:** Store in a cool, dry, well-ventilated area remote from operations. Storage area should be of non-combustible construction. Organic materials, flammable substances and finely divided metals should be stored separately. Flames, smoking and unauthorized personnel are prohibited where this product is used or stored. Protect against physical damage, static electricity and lightning.

**WARNING:** Use of this product by persons lacking adequate training, experience and supervision may result in death or serious injury. Obey all Federal, State, and local laws / regulations applicable to transportation, storage, handling, and use of explosives. **DISTANCE:** Always stay from area of explosion or disposal sites. Stay behind suitable barriers.

### SECTION 10 - SPILL & LEAK PROCEDURES

**PROCEDURES IF MATERIAL IS RELEASED OR SPILLED (IN ADDITION, SEE SECTION 8):** Isolate area. Eliminate ALL sources of ignition. Avoid skin contact. Sweep up. Remove soiled clothing. Do not allow to enter sewers or watercourses.

**WASTE DISPOSAL - USE APPROPRIATE METHOD(S):** Disposal of unexploded or deteriorated explosives material can be hazardous. Expert assistance is positively recommended in destroying explosives. Accidents can be prevented by thorough planning and handling in accordance with approved methods. Consult your supervisor, or the nearest UTeC Regional Office for assistance. If improperly disposed of, material could explode and cause death or serious injury.

In all cases, follow facility emergency response procedures. Contact Facility Environmental Manager for assistance. Report any discharge of oil or hazardous substance that may enter surface waters to the National Response Center (800) 424 - 8802.

Observe all applicable local, state, and federal environmental spill and water quality regulations.

### SECTION 11 - PHYSICAL DATA

**BOILING POINT:** 210 °C (410° F)      **BULK DENSITY:** 46-50lb/ft<sup>3</sup>: 0.77-0.82 g/cm<sup>3</sup>      **VOLATILE BY VOLUME:** NA

**MELTING POINT:** 160 to 165°C (320 to 329° F)

**VAPOR PRESSURE :**( mm hg at 20°C): 0

**VISCOSITY:** NA **EVAPORATION RATE (ETHER=1):** NA

**VAPOR DENSITY (AIR=1):** NA

**SOLUBILITY IN WATER:** 79% at 25°C (77°F)

**APPEARANCE/ ODOR:** Free-flowing, hygroscopic, off-white colored powder, Odorless.

### SECTION 12 - COMMENTS

Storage should be in a well constructed, well ventilated, dry structure located to conform to local, state, and federal regulations. Normal operating conditions are assumed unless otherwise stated. If any given information is not clear or does not apply to your situation, STOP, store the material suitably, and seek correct help from your supervisors or Institute of Makers of Explosives. Bureau of Alcohol, Tobacco, and Firearms regulations for explosive storage and handling should be consulted and complied with. Disposal sites must be clear of people at the time of disposal.

NOTICE: The data and recommendations presented herein are based upon data, which are considered accurate. However, SEC makes no guarantee or warranty, either expressed or implied, of the accuracy or completeness of these data and recommendations.

For more detailed information on the hazards of this product, contact the Regulatory Compliance Department at the address below:

DetaCorp, PO Box 462, Columbus, Kansas 66724, (620) 597-2552.