

MATERIAL SAFETY DATA SHEET

DISTRIBUTOR:

Lange Stegmann Company
101 Ferry Street
St. Louis, MO 63147
Phone: 314-588-8950

SECTION I - PRODUCT IDENTITY AND MANUFACTURING INFORMATION

PRODUCT: Lange-Stegmann Fertilizer 21-00-00-24S Ammonium Sulfate
PRODUCT CODE: 210000-001
DATE PREPARED/REVISED: Jan 2008

SECTION II - INGREDIENTS AND IDENTITY INFORMATION

<u>INGREDIENTS:</u>	<u>PEL</u>	<u>TLV</u>
Ammonium Sulfate CAS# 7783-20-2	15mg/m ³ *	10mg/m ³ *

* as nuisance dust

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 760mm/Hg: Decomposes at temperatures above 536^EF.
Specific Gravity (H₂O=1): 1.77
Appearance and Odor: Gray to white granular solids; slight acid odor.
pH: 5.5 (1.3% solution)
Solubility in H₂O: 43.47% Solution @ 25⁰C

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Closed Cup) Range: NA
Auto Ignition Temperature: NA
Extinguishing Media: Use media needed to control surrounding fire.
Special Fire Fighting Procedures: Fire Fighting Equipment - Wear positive pressure apparatus to avoid breathing fumes.
Unusual Fire and Explosion Hazards: Decomposes at elevated temperatures to produce toxic fumes of ammonia and sulfur oxides. If mixed with strong oxidizers such as potassium nitrate, nitrite or chlorate, a vigorous reaction or explosion may occur.
Run off from fire control or dilution water may cause pollution. In case of water pollution, contact local authorities.
Explosion Limit (%): Lower: NA Upper: NA
Flammable limits in Air, % by volume: NA

SECTION V - HEALTH HAZARD INFORMATION

Acute Oral LD50: 3000mg/kg (rat)
Acute Dermal LD50: NA
Primary Dermal Irritation: Contact may cause skin irritation.
Primary Eye Irritation: Contact may cause eye irritation.
Inhalation 4 hr. LC50: NA
Chronic Effects: None found.
Ingestion: Not generally considered toxic. If swallowed, irritation may develop in the mouth, esophagus, stomach, etc. The sulfate ion may cause purging.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Wash thoroughly with running water for at least 15 minutes.
SKIN: Wash with soap and water thoroughly. If irritation persists, seek medical attention.
INHALATION: Remove to fresh air. Contact medical personnel if symptoms occur.
INGESTION: If swallowed and the person is conscious, give large amounts of water to drink and induce vomiting. Get medical attention.
Note to the Physician: Symptomatic treatment only.

SECTION VI - REACTIVITY DATA

Hazardous Decomposition Products: Ammonia and sulfur trioxide and sulfur dioxide gases.
Hazardous Polymerization: NA
Incompatibility: Oxidizers; e.g. potassium salts-nitrite, nitrate, chlorate; also chlorine and hypochlorite. Avoid contact with zinc-clad, copper and copper bearing materials.

SECTION VII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Where exposure limits are exceeded, wear a suitable respirator, (MSHA/NIOSH approved or equivalent).
VENTILATION: Work area must have adequate ventilation to limit exposure to this product.
PROTECTIVE CLOTHING: Rubber gloves, long-sleeved shirt, shoes and socks.
EYE PROTECTION: Goggles or glasses.

SECTION VIII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled. 1) Contain spill. 2) Collect into clean container and mark properly. 3) Recovered product may be applied per label instructions.

SECTION IX - SPECIAL PRECAUTIONS

STATEMENT OF PRACTICAL TREATMENT:

In case of contact, wash skin with plenty of soap and water; for eyes, flush with water for 15 minutes and get medical attention.

CAUTION: Hazardous to humans and domestic animals. Harmful if swallowed. Do not inhale dust. Do not allow contact with skin, eyes or clothing. Wash hands thoroughly after handling.

ENVIRONMENTAL HAZARDS: Do not apply directly to water. Do not apply when weather conditions favor drift from target area.

STORAGE AND DISPOSAL STATEMENTS:

STORAGE: Store in a cool, dry place away from strong oxidizers, such as chlorates, nitrates and nitrites.

PRODUCT DISPOSAL: To dispose of bags containing unused product, securely wrap bag in several layers of newspaper and discard in trash.

CONTAINER DISPOSAL: Do not reuse empty bag. Fold empty bag and discard in trash.

SUMMARY: The information and statements in these Material Safety Data Sheets are believed to accurately reflect the scientific evidence used in making the hazard determination, but is not to be construed as a warranty or representation for which we assume legal responsibility. Additional information may be necessary or desirable, depending on particular, exceptional, or variable conditions or circumstances of use, or storage, or because of locally applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information available to you, and must make independent determinations of the suitability of the information for your particular circumstances, or conditions, and of the completeness of the information available from all sources, to assure both the proper use of the material described herein and the safety and health of employees.