

MATERIAL SAFETY DATA SHEET

DISTRIBUTOR:

Lange-Stegmann Company
One Angelica Street
St. Louis, MO 63147
Phone: 314-241-9531

SECTION I - PRODUCT IDENTITY AND MANUFACTURING INFORMATION

PRODUCT: Lange-Stegmann Fertilizer Urea 46-00-00
PRODUCT CODE: 46000050A
DATE PREPARED/REVISED: Jan 2008

SECTION II - INGREDIENTS AND IDENTITY INFORMATION

<u>INGREDIENTS:</u>	<u>PEL</u>	<u>TLV</u>
Granular Urea CAS# 57-13-6	15mg/m ³ *	10mg/m ³ *

* as nuisance dust

SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 760mm/Hg: Decomposition begins at 275° F.
Specific Gravity (H₂O=1): 1.320
pH: 7.2
Appearance and Odor: White or tan granular solids; odorless.
Melting Point: Melting begins at 275° F.
Freezing Point: NA
Solubility in H₂O: Complete

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: At elevated temperature, urea may decompose to form cyanuric acid, ammonia, biuret, and nitrogen oxides.

SECTION V - HEALTH HAZARD INFORMATION

Acute Oral LD50: 14300mg/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.
Acute Effects: At high dust concentrations, irritation of eyes, skin and mucous membranes by chemical or mechanical action may occur.
Emergency and First Aid Procedures:
EYES: Wash thoroughly with running water for at least 15 minutes.
SKIN: If irritation occurs, wash skin with water and mild detergent. If irritation persists, seek medical attention.

INHALATION: Remove to fresh air, if breathing difficulty occurs because of dust irritation. Contact medical personnel if discomfort occurs.

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

Material Reacts Violently With: NA **Hazardous Polymerization:** NA

Hazardous Decomposition Products: Ammonia, cyanuric acid, biuret and nitrogen oxides.

Incompatibility: Hypochlorite bleach reacts with urea to form nitrogen trichloride which explodes spontaneously in air.

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: If irritation occurs wear rubber gloves, long-sleeved shirt, shoes and socks.

EYE PROTECTION: Goggles or glasses.

OTHER PROTECTIVE EQUIPMENT: Washing facilities should be available.

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

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.

OTHER PRECAUTIONS: Spilled urea, wet or dry, can cause slippery conditions. May be toxic to cattle (ruminants) when ingested.

STORAGE AND DISPOSAL STATEMENTS:

STORAGE: Store in original container, and keep any bags containing unused product in a locked storage area, inaccessible to children and domestic animals. Do not store near food or feedstuffs. To prevent cross contamination, do not store near other fertilizer, or near herbicides, insecticides, fungicides, or seeds.

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.