

**MATERIAL SAFETY DATA SHEET**

**DISTRIBUTOR:**

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

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**SECTION I - PRODUCT IDENTITY AND MANUFACTURING INFORMATION**  
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**PRODUCT:** Lange-Stegmann Fertilizer 18-18-18  
**PRODUCT CODE:** 181818A  
**DATE PREPARED:** January 2008  
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**SECTION II - INGREDIENTS AND IDENTITY INFORMATION**  
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**INGREDIENTS:**

Monoammonium Phosphate	$15\text{mg/m}^3$	$10\text{mg/m}^3$
Granular Urea		
Granular Muriate of Potash		
Ground Clay		
Pellet Lime		

\* as nuisance dust

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**SECTION III - PHYSICAL AND CHEMICAL PROPERTIES**  
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**Boiling/Melting Point 760mm/Hg:** Decomposition begins at 275° F.  
**Specific Gravity (H<sub>2</sub>O=1):** 1.9  
**Appearance and Odor:** Brown, gray and white granular solids; Slight ammonia odor.  
**pH:** 7.5 - 8.5  
**Solubility in H<sub>2</sub>O:** 347 g/l @20° C  
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**SECTION IV - FIRE AND EXPLOSION HAZARD DATA**  
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**Flash Point (Closed Cup) Range:** NA.  
**Extinguishing Media:** Use appropriate media to fight surrounding fire.  
**Special Fire Fighting Procedures:** Fire Fighting Equipment - Wear positive pressure apparatus to avoid breathing fumes.  
**Unusual Fire and Explosion Hazards:** 1) The product may burn at a very high temperature, but will not ignite readily. 2) Fire may produce irritating or poisonous gases. 3) Run off from fire control or dilution water may cause pollution. 4) In case of water pollution, contact local authorities.  
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**SECTION V - HEALTH HAZARD INFORMATION**  
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**Acute Oral LD50:** NA. **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  
**Acute Effects:** Inhalation of dust may be irritating to mucous membranes. If ingested at high concentrations, may irritate mouth, throat, gastro-intestinal tract. Chest pain, abdominal pain, and/or diarrhea may occur.

**Emergency and First Aid Procedures:**

**EYES:** Wash thoroughly with running water for at least 15 minutes.

**SKIN:** Wash with soap and water thoroughly.

**INHALATION:** Remove to fresh air. Contact medical personnel if symptoms occur.

**INGESTION:** Call a physician or Poison Control Center immediately.

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**SECTION VI - REACTIVITY DATA**

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**Material Reacts Violently With:** NA.

**Hazardous Decomposition Products:** NA.

**Hazardous Polymerization:** NA.

**Incompatibility:** NA

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**SECTION VII - SPECIAL PROTECTION INFORMATION**

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Protective equipment should be used in the application of this product, including the following:

**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.

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**SECTION VIII - SPILL OR LEAK PROCEDURES**

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Steps to be taken in case material is released or spilled: 1) Wear gloves, protective clothing and dust mask. 2) Contain spill. 3) Collect into clean container and mark properly. 4) Recovered product may be applied per label instructions.

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**SECTION IX - SPECIAL PRECAUTIONS**

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**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 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.