

## MATERIAL SAFETY DATA SHEET

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**COMPANY ADDRESS:**

ALBAUGH, INC.  
Ankeny, IA 50021

**EMERGENCY TELEPHONE NUMBERS:**

(800) 424-9300 (CHEMTREC, transportation and spills)

**PRODUCT NAME**

: **KRENITE S**

**CHEMICAL NAME**

: Ammonium salt of Fosamine

**CHEMICAL FAMILY**

: Herbicide

**PRODUCT CODE**

: EPA Reg. No. 42750-247

### SECTION 2 - COMPOSITION, INFORMATION OF INGREDIENTS

| COMPONENT                 | PERCENTAGE | CAS NUMBER | OSHA PEL | ACIGH TLV |
|---------------------------|------------|------------|----------|-----------|
| Ammonium Salt of Fosamine | 41.5 %     | 25954-13-6 | NOT EST  | NOT EST   |
| Inert Ingredients         | 58.5 %     | n/a        | n/a      | n/a       |

### SECTION 3 - HAZARDS IDENTIFICATION SUMMARY

(As defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200)

**HEALTH HAZARDS:** CAUTION. Causes moderate to severe eye irritation..

**PHYSICAL HAZARDS:** May release toxic gasses when burned

**ENVIRONMENTAL HAZARDS:** May be toxic to non-target plants.

### SECTION 4 - FIRST AID MEASURES

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

### SECTION 5 - FIRE FIGHTING MEASURES

**FLASH POINT (method):** Will not flash.

**FLAMMABLE LIMITS:** Not Established

**FIRE AND EXPLOSION HAZARD:** May decompose in fire due releasing irritating or toxic gases.

**EXTINGUISHING MEDIA:** Use water spray, foam or dry chemical.

**FIGHTING INSTRUCTIONS:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam or dry chemical extinguishing systems recommended to prevent environmental damage due to water run off.

**FIREFIGHTING EQUIPMENT:** Self-contained breathing apparatus with full facepiece. Full firefighting turn-out gear (Bunker gear).

**HAZARDOUS COMBUSTION PRODUCTS:** Unknown

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

Clean up spills immediately, observing precautions in Section 8 of this document. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.

**SMALL SPILL:** Absorb small spills on sand, vermiculite or other inert absorbent. Place contaminated material in appropriate container for disposal.

**LARGE SPILL:** Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify, and scrape up for disposal. After removal, scrub the area with detergent and water and neutralize with dilute alkaline solutions of soda ash, or lime.

Wear appropriate personal protection equipment. (See Section 8 Exposure Controls, Personal Protection.)

## **SECTION 7 - HANDLING AND STORAGE**

**CAUTION**      **KEEP OUT OF REACH OF CHILDREN!**

**HANDLING:** Use only in a well-ventilated area. Wear appropriate safety equipment when handling.

**STORAGE:** Store in original container with lid tightly closed. Keep away from food, feed and drinking water.

## **SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION**

**EXPOSURE LIMITS (8 hour TWA, ppm):** Refer to Section 3.

**ENGINEERING CONTROLS:** Proper ventilation is required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Local mechanical exhaust ventilation may be required. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.

### **PERSONAL PROTECTIVE EQUIPMENT:**

**EYE PROTECTION** - Safety goggles when mixing, loading or cleaning equipment is recommended.

**CLOTHING** – Long-sleeved shirt and long pants, Shoes plus socks,

**GLOVES** – Waterproof gloves when mixing, loading or cleaning equipment is recommended.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

|                              |                          |
|------------------------------|--------------------------|
| <b>PHYSICAL DESCRIPTION:</b> | Clear to amber liquid.   |
| <b>ODOR:</b>                 | Slight ammonia like.     |
| <b>SPECIFIC GRAVITY:</b>     | 1.17 (9.7 – 9.9 lb/gal)* |
| <b>pH:</b>                   | Unknown                  |
| <b>VAPOR PRESSURE:</b>       | Unknown                  |
| <b>WATER SOLUBILITY:</b>     | Emulsifies.              |

\*Listed density is an approximate value and does not necessarily represent that of a specific batch.

## **SECTION 10 - STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** Stable, however may decompose if heated.

**CONDITIONS TO AVOID:** Avoid temperatures above (115°F, 46°C) and below 25°F (-5°C).

**INCOMPATIBILITY WITH OTHER MATERIALS:** Strong oxidizers or bases, mild and galvanized steel.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon monoxide, Nitrogen oxides, phosphorous oxides.

**HAZARDOUS POLYMERIZATION:** Product will not undergo polymerization.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

### **ACUTE TOXICITY:**

|                                   |                      |
|-----------------------------------|----------------------|
| Oral LD <sub>50</sub> (rat)       | - > 5,000 mg/kg      |
| Dermal LD <sub>50</sub> (rabbit)  | - > 5,000 mg/kg      |
| Inhalation LC <sub>50</sub> (rat) | - > 5.5 mg/L         |
| Eye Irritation (rabbit)           | - Moderate to severe |
| Skin Irritation (rabbit)          | - Mild               |
| Sensitization (guinea pig)        | - Non-sensitizer     |

### **CARCINOGEN STATUS:**

OSHA - Not listed

NTP - Not listed

IARC - Not listed

**MUTAGENIC DATA:** No evidence of mutagenic effects during *in vivo* or *in vitro* studies.

**ADDITIONAL DATA:** None

## **SECTION 12 - ECOLOGICAL INFORMATION**

**ENVIRONMENTAL SUMMARY:** Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters.

### **FISH TOXICITY:** (Fosamine ammonium)

96 hour LC<sub>50</sub>, Rainbow trout – 330 mg/L

96 hour LC<sub>50</sub>, Bluegill – 590 mg/L

### **AVIAN TOXICITY:** (Glyphosate acid)

Oral LD<sub>50</sub>, Bobwhite quail – > 5,000 mg/Kg

Oral LD<sub>50</sub>, Mallard duck – > 5,000 mg/Kg

**BEE:** Unknown

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

Do not contaminate water, food, or feed by storage or disposal.

**WASTE:** Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER:** Container cleaning and disposal depends on the type of container being used. Refer to product label for appropriate cleaning and disposal instructions.

### **SECTION 14 - TRANSPORT INFORMATION**

**DOT SHIPPING DESCRIPTION:** Not regulated by DOT

**DOT HAZARD CLASS:** N/A

**UN NUMBER:** N/A

**DOT PACKING GROUP:** N/A

**DOT PRIMARY/SECONDARY LABEL:** N/A

**DOT PRIMARY/SECONDARY PLACARD:** N/A

**DOT EMERGENCY RESPONSE GUIDE #:** N/A

### **SECTION 15 - REGULATORY INFORMATION**

**CERCLA REPORTABLE QUANTITY:** Not listed

**SARA TITLE III STATUS:**

|                             |                  |
|-----------------------------|------------------|
| 311/312 Hazard Categories – | Immediate Health |
| 313 Toxic Chemicals –       | None known       |

**CALIFORNIA PROP 65:** Not listed

### **SECTION 16 - OTHER INFORMATION**

|                           |                                                          |   |
|---------------------------|----------------------------------------------------------|---|
| HMIS<br>HAZARD<br>RATINGS | HEALTH                                                   | 1 |
|                           | FLAMMABILITY                                             | 0 |
|                           | PHYSICAL HAZARD                                          | 1 |
|                           | 4=Severe   3=Serious   2=Moderate   1=Slight   0=Minimal |   |

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