

Material Safety Data Sheet

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300

Section 1 – Chemical Product and Company Identification

Product Name: ProForma™ 0-0-27

Common Name: LIQUID FERTILIZER

Chemical Description: LIQUID FERTILIZER

Distributor's Name:

Agriliance, LLC

PO Box 64089

St. Paul, Minnesota 55164-0089

Date Prepared: 01-13-2006

Emergency Telephone Number:

CHEMTREC 1-800-424-9300

Revision Date: new

Section 2 – Composition Information on Ingredients

Derived from Potassium Carbonate,

Ingredient	%	TLV or PEL
Soluble Potash (K ₂ O)	27	N/A
Proprietary Ingredients	0-10	N/A
Water	balance	

NFPA HAZARD RATING:

0	Least		
1	Slight	1	Health
2	Moderate	0	Flammability
3	High	1	Instability
4	Severe		

Section 3 – Hazards Identification

Emergency Overview: Product is alkaline may cause oxygen deficiency in enclosed space; follow all OSHA regulations pertaining to enclosed space entry. See health effects below.

CAUTION: Keep out of reach of children.

Route(s) of Entry: Eyes, Inhalation, Skin and Ingestion

Health Hazards (Acute and Chronic):

Inhalation: Inhalation of mist may cause irritation of the upper respiratory tract.

Eyes: Irritation of eyes.

Skin: Contact may cause irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis or other skin reactions.

Ingestion: Harmful if swallowed.

Carcinogenicity

NTP: Not Listed

IARC: Not Listed

OSHA: Not Listed

Medical Conditions Generally Aggravated by Exposure:

None known. Preexisting respiratory conditions may be aggravated by exposure to mists.

Section 4 – First Aid Measures

Inhalation: Remove person to fresh air and support breathing as needed. Seek medical attention if irritation persists.

Ingestion: Seek medical attention or call a poison control center immediately.

Eyes: Flush with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. Seek medical attention if eye irritation persists.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water, and then wash with soap and water. Seek medical attention if skin becomes irritated.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Section 5 – Fire and Explosion Hazard Data

Flash Point: Non-combustible	Flammable Limits: Non-combustible	LEL: Not Established	UEL: Not Established
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Extinguishing Media: Materials suitable to surrounding fire.
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and full bunker gear. Smoke and fumes from fire may contain hazardous components.
Hazardous Combustion Products: None Known
Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat.

Section 6 – Accidental Release Measures

Small Spills: Clean up personnel should protect against mist inhalation and skin contact. Avoid generating mists. Spills when handling should be cleaned up immediately to prevent spreading.
Large Spills: Clean up personnel should protect against mist inhalation and skin contact. Avoid generating mist.
Containment: Do not release into sewers or waterways. Dike spills to prevent contamination to water supplies. Contained spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up waste and place in a container for disposal.

Section 7 – Precautions for Safe Handling and Use

Precautions to Be taken in Handling and Storing: Store in cool, dry areas away from children, feed and food products and sources of heat. Immediately clean up spills that occur during handling or storage. Protect from freezing keep containers closed when not in use. Store in suitable containers of plastic, poly, fiberglass or stainless steel avoid using aluminum, copper or brass.
Other Precautions: Consult local, State and Federal regulations pertaining to storage and disposal.

Section 8 – Control Measures / Personal Protection

Respiratory Protection (*Specify Type*): Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear an MSHA/NIOSH-approved respirator. If excessive heat or reaction occurs resulting in the release of carbon dioxide, in enclosed spaces, the carbon dioxide can displace oxygen causing possible suffocation, thus use self contained breathing apparatus, do not use air purifying respirators in this situation.

Ventilation: Local Exhaust: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemically protective gloves
Eye Protection: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices.
Other Protective Clothing or Equipment: Wear chemically protective boots, aprons and gauntlets to prevent prolonged or repeated skin contact.
Work / Hygienic Practices: Never eat, drink or smoke in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet or applying cosmetics.

Section 9 – Physical / Chemical Characteristics

Physical State:	Liquid	Specific Gravity (water=1)	1.38 (11.5 lbs. Gal)
Vapor Pressure (mm Hg.)	N/A	Freezing Point	N/A
Vapor Density (AIR=1)	N/A	Boiling Point	>200°F
Solubility in Water:	100%	pH	11 –11-5
Appearance and Odor Clear liquid, no noticeable odor			

Section 10 – Reactivity Data

Stability: Product stable at room temperature in closed containers under normal storage and handling conditions.

Chemical Incompatibilities: Strong Acids and excessive heat

Conditions to avoid: Avoid excessive heat.

Hazardous Decomposition Products: Carbon dioxide is generated when reacted with acids.

Hazardous Polymerization: Cannot occur.

Section 11 – Toxicological Information

Eye Effects: Irritation

Chronic Effects: No unusual chronic effects

Skin Effects: May cause irritation

Carcinogenicity: Not listed as carcinogenic

Acute Inhalation Effects: Not Determined

Mutagenicity: Not listed as mutagenic

Acute Oral Effects: Not Determined

Teratogenicity: Unknown

Section 12 – Ecological Information

Soil Absorption / Mobility: Mobile in soil profile

Section 13 – Disposal Considerations

Disposal: Dispose of in an approved landfill or apply at recommended label rates.

Disposal Regulatory Requirement: Follow applicable Federal, State and local regulations.

Section 14 – Transport Information

Not regulated by the DOT as a hazardous material.

Section 15 – Regulatory Information

SARA TITLE II HAZARD CATEGORY:	Immediate: Yes	Delayed: No
Sudden Release of Pressure: No	Fire: No	Reactive: No

CERCLA: NONE LISTED

SARA, TITLE III, SECTION 313 NONE LISTED

Section 16 – Other

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