

RSA MicroTech

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: **Gainer 10-16-38**

Common Name: 10-16-38

Chemical Description: Inorganic chemical fertilizer mixture

Manufacturer's Name:
RSA MicroTech, LLC
PO Box 64589
St Paul, MN 55164-0589
Date Prepared: 5/19/02

Emergency Telephone Number:
CHEMTREC 1-800-424-9300
Telephone Number for Information:
1-206-282-7878
Revision Date: 4/4/06

Section 2 – Composition Information on Ingredients:

Derived from: Ammonium phosphate, potassium nitrate, potassium phosphate, and micronutrients.

INGREDIENTS	%	TLV or PEL	NFPA HAZARD RATING:		
			0	1	2
Nitrogen (N)	10.0	TLV = 10 mg/m ³ nuisance dust	Least	Slight	Health
Available Phosphate (P ₂ O ₅)	16.0	N/A	Moderate	Flammability	Instability
Soluble Potash (K ₂ O)	38.0	N/A	High	Severe	

Section 3 – Hazards Identification

Emergency Overview: 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 will cause irritation of the respiratory tract, coughing, shortness of breath.

Eyes: Contact with eyes may cause irritation, redness and pain.

Skin: Contact with skin may cause irritation, redness, itching and pain.

Ingestion: May cause severe injury or death.

Carcinogenicity NTP: Not Listed IARC: Not Listed OSHA: Not Listed

Medical Conditions Generally Aggravated by Exposure:

No information found.

Section 4 – First Aid Measures

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

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

Eyes: Flush with clean water for at least 20 minutes. Lift eyelids to facilitate irrigation. Seek medical attention.

Skin: Remove and isolate contaminated clothing and shoes. Wash before re-using. Flush skin with water, then wash with soap and water. Seek medical attention.

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

Section 5 – Fire and Explosion Hazard Data

Flash Point: Not Determined	Flammable Limits: Not Determined.	LEL: Not Established	UEL: Not Established
---------------------------------------	---	--------------------------------	--------------------------------

Extinguishing Media:

Small Fires: Use water. Do not use dry chemicals or foam, CO₂ may provide limited control.

Large Fires: Flood fire area with water from a distance. Move containers from fire area if you can do so without risk. Do not move cargo or vehicle if cargo has been exposed to heat.

Special Fire Fighting Procedures: Do not release runoff from fire control methods to sewers or waterways.

Hazardous Combustion Products: Oxides of sulfur, nitrogen and other toxic gases may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.

Unusual Fire and Explosion Hazards: None Known.

Section 6 – Accidental Release Measures

Spills: Clean up personnel should protect against dust inhalation and skin contact. Avoid generating dust. Do not get water inside containers.

Containment: Do not release into sewers or waterways. If spilled material is exposed to rain or wind, cover with plastic to prevent run-off until cleanup is possible.

Section 7 – Precautions for Safe Handling and Use

Precautions to Be taken in Handling and Storing: Store in a cool, dry place, away from sources of high heat. Store away from children, feed and foodstuffs. Protect bags or other containers from damage. Keep bags or other containers closed when not in use.

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 a MSHA/HIOSH-approved respirator.

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 protective gloves.

Eye Protection: Wear protective eyeglasses or chemical safety goggles. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Other Protective Clothing or Equipment: Wear appropriate clothing 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:	Powder	Specific Gravity (H₂O=1)	N/A
------------------------	--------	--	-----

Vapor Pressure (mm Hg.)	N/A	Freezing Point	N/A
--------------------------------	-----	-----------------------	-----

Vapor Density (AIR=1)	N/A	Boiling Point	N/A
------------------------------	-----	----------------------	-----

Solubility in Water: Appreciable

Appearance and Odor: Blue crystals with fertilizer-like odor.

Section 10 – Reactivity Data

Stability: Product stable under normal conditions of use and storage.

Chemical Incompatibilities: None Known.

Conditions to avoid: Extreme Heat.

Hazardous Decomposition Products: Oxides of nitrogen, sulfur and other toxic fumes chemicals may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.

Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Chronic Effects: Under some circumstances, methemoglobinemia occurs in individuals when the nitrate is converted by bacteria in the stomach to nitrite. Nausea, vomiting, dizziness, rapid heart beat, irregular breathing, convulsions, coma and death can occur should this conversion take place. Chronic exposure to nitrites may cause anemia and adverse effects to kidneys.

Eye Effects: Irritation

Skin Effects: Irritation

Acute Inhalation Effects: Not Determined

Acute Oral Effects: Not Determined

Carcinogenicity: Not listed as carcinogenic

Mutagenicity: Not listed as mutagenic

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:

Nitrates, Inorganic N.O.S. UN 1477, PG III

Section 15 – Regulatory Information

SARA TITLE II HAZARD CATEGORY:

Immediate: **Yes**

Delayed: **No**

Sudden Release of Pressure: **No**

Fire: **No**

Reactive: **No**

CERCLA: Not Listed.

SARA, TITLE III, SECTION 313: None Listed.

Section 16 – Other

Disclaimer: All information appearing herein is based upon data obtained from manufacturers and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency. Conditions of use are beyond our control, therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of this product. Users also assume all risks in regards to the publications of use of, or reliance upon, information contained therein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.