

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: **RSA Actaphos 0-28-25**

Common Name: 0-28-25 fertilizer solution, liquid

Chemical Description: 0-28-25 fertilizer Solution, liquid

Distributor Name:

RSA MicroTech, LLC

PO Box 39

Marysville, WA 98270

Revision Date: 10-14-04

Emergency Telephone Number:

CHEMTREC 1-800-424-9300

Telephone Number for Information:

1-206-286-7878

Replaces: 10-2-04

Section 2 – Composition Information on Ingredients

Ingredient	%	TLV or PEL	NFPA HAZARD RATING:			
			0	1	2	3
Total Nitrogen (N)	0	N/A	Least	1	Health	
Available Phosphate (P ₂ O ₅)	28.0	N/A	Moderate	0	Flammability	
Soluble Potash (K ₂ O)	25.0	N/A	High	1	Instability	
			Severe			

Derived from phosphorous acid and potassium hydroxide

Section 3 – Hazards Identification

Emergency Overview: Product is slightly acid and may cause oxygen deficiency in enclosed spaces, 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 to the nose, throat and exposed mucous membranes.

Eyes: Contact with eyes will lead to tearing, pain, reddening and irritation.

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.

Section 4 – First Aid Measures

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

Ingestion: Have a *conscious* person drink 1 to 2 glasses of water or milk to dilute. Do not induce vomiting. 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, 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: N/A	Flammable Limits: N/A	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 protective clothing. Smoke and fumes from fire may contain hazardous components.

Hazardous Combustion Products: Toxic gases may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.

Unusual Fire and Explosion Hazards: If water is used to fight fire or cool containers, contain run-off by diking to prevent contamination to water supplies.

Section 6 – Accidental Release Measures

Small Spills: Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes and place in a container for disposal.

Large Spills: Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes and place in a container for disposal.

Containment: Do not release into sewers or waterways. Dike spills to prevent contamination to water supplies. Contain spills, absorb liquids by covering with clay or other absorbent material, vacuum, scoop or sweep up wastes 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 places away from direct sunlight and high sources of heat. Keep away from children, feed and food products. Immediately clean up spills that occur during handling or storage.

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 chemically 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. Eyewash stations should be near the area where this product is stored.

Other Protective Clothing or Equipment: Use body protection appropriate to the task, 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)	1.46
Vapor Pressure (mm Hg.)	N/A	Approximate Density	12.2 lb/gal
Vapor Density (AIR=1)	N/A	Approximate pH	6.2 to 6.5
Solubility in Water:	Miscible		
Appearance and Odor:	Clear, colorless liquid with slight odor.		

Section 10 – Reactivity Data

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

Chemical Incompatibilities: Strong bases, strong oxidizers, strong reducers and water-reactive materials.

Conditions to avoid: Avoid excessive heat.

Hazardous Decomposition Products: When exposed to extremely high temperatures, the components of this product will decompose to produce irritating vapors and toxic gases (e.g., phosphorous oxides, phosphine, carbon monoxide, and carbon dioxide).

Hazardous Polymerization: Will not 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

This product is not regulated by the DOT.

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

Prepared by: Mike Barry

Reviewed by: Dennis Belau

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.