

RSA MicroTech, LLC

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 BUFFET™ 0-10-0

Common Name: Liquid Buffering Compound

Manufacturer's Name:

RSA MicroTech, LLC

PO Box 64589

St. Paul, MN 55164-0589

Revision Date: 01-27-06

Emergency Telephone Number:

CHEMTREC 1-800-424-9300

International Telephone Number

703-527-3887

Replaces: 06-14-05

Section 2 – Composition Information on Ingredients

Derived from: Phosphoric Acid, Proprietary Ingredients and water.

Ingredient	%	TLV or PEL
P ₂ O ₅	10.00	N/A
Proprietary Ingredients	8.00-12.00	N/A
Water	Balance	N/A

NFPA HAZARD RATING:

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

Section 3 – Hazards Identification

Emergency Overview: Product is acidic 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 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 dusts.

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: Toxic gases may be formed in a fire situation, carbon monoxide and other asphyxiates may form as well.
Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat. Contain run off by diking to prevent contamination to water supplies.

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. Do not store in aluminum or metal vessels.
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.
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)	1.109
Freezing Point	32 °F	Boiling Point	212 °F
Solubility in Water:	Miscible	pH	1.00-2.00
Appearance and Odor	Clear green/blue liquid with virtually no odor.		

Section 10 – Reactivity Data

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

Chemical Incompatibilities: Strong oxidizers and strong bases. Corrosive to aluminum, copper and their alloys and to carbon steel.

Conditions to avoid: Avoid excessive heat.

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

Hazardous Polymerization: Cannot occur.

Section 11 – Toxicological Information

Eye Effects: Irritation

Skin Effects: May cause irritation

Chronic Effects: No unusual chronic effects

Carcinogenicity: Not listed as carcinogenic

Mutagenicity: Not listed as mutagenic

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

For package size = 2.5 gallons: Phosphoric Acid solution, 8, UN1805, III

For package size 1 gal and 1 liter: Limited Quantity, Phosphoric Acid solution, 8, UN1805, III

Ground Transportation (1 gal and 1 liter): exempt from DOT hazardous labeling requirements. No placard or CDL Hazmat endorsement needed.

Section 15 – Regulatory Information

SARA TITLE II HAZARD CATEGORY:

Immediate: **Yes**

Delayed: **No**

Sudden Release of Pressure: **No**

Fire: **No**

Reactive: **No**

CERCLA: RQ Phosphoric Acid 5,000 pounds, cannot be met in any package sizes.

SARA, TITLE III, SECTION 313: None listed.

PROPOSITION 65: WARNING: This product may contain chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

Section 16 – Other

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Reviewed by: Dennis Belau

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