



**4. FIRST AID MEASURES**

NOTES TO PHYSICIAN: None.

**5. FIRE AND EXPLOSION HAZARD DATA**

**FLASH POINT:** (F): None to boiling (C): None to boiling

**METHOD:** None

**FLAMMABLE LIMITS IN AIR**

**LOWER (%):** No data

**UPPER (%):** No data

**SENSITIVITY TO MECHANICAL IMPACT(Y/N):** NO

**SENSITIVITY TO STATIC DISCHARGE:** Sensitivity to static discharge is not expected.

**SUITABLE EXTINGUISHING MEDIA:** Dry chemical. Carbon dioxide. Water.

**FIRE FIGHTING PROCEDURES:** Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Use water spray to cool nearby containers and structures exposed to fire.

**6. ACCIDENTAL RELEASE MEASURES****SPILL PROCEDURES:**

**SMALL SPILLS:** Pick up with absorbant material.

**LARGE SPILLS:** Dike to contain. Pick up with absorbant material. Put in suitable container for disposal.

**PERSONAL PRECAUTIONS:** Wear adequate personal protective equipment, see Section 8, Exposure Controls/Personal Protection.

**ENVIRONMENTAL PRECAUTIONS:** Keep out of drains, sewers, streams, or other bodies of water.

**METHODS FOR CLEANING UP:** Not applicable

**7. HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry location away from incompatible materials. Store in a well ventilated area. Emptied containers may retain hazardous properties. Do not cut, puncture or weld on or near the container.

**OTHER PRECAUTIONS:** No other spill procedures necessary.

**SPECIFIC USE(S):** Not applicable.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****PROTECTIVE EQUIPMENT:**

**EXPOSURE CONTROLS:** None known.

**RESPIRATORY PROTECTION:** Use approved NIOSH respiratory protection if TLV/PEL exceeded or if over exposure is likely.

**PROTECTIVE GLOVES:** Nitrile, neoprene, or other appropriate gloves are recommended to minimize hand skin contact.

**EYE PROTECTION:** Goggles and face shield are recommended to minimize eye contact.

**OTHER PERSONAL PROTECTION EQUIPMENT:** Appropriate protective clothing as needed to prevent skin contact. Eyewash fountains and safety showers must be easily accessible. It is the responsibility of the end user of this product to determine level of PPE required that is consistent with safe use of this product.

**VENTILATION:** None required.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**APPEARANCE AND ODOR:** Light yellow liquid. Organic Odor.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>BOILING POINT (F):</b>	>212°	<b>(C)</b> >100°
<b>VAPOR PRESSURE:</b>	Not determined	
<b>VAPOR DENSITY (AIR=1):</b>	Not determined	
<b>SOLUBILITY IN WATER:</b>	Not determined	
<b>SPECIFIC GRAVITY:</b>	1.205 - 1.235	
<b>BULK DENSITY:</b>	10.11 lbs/gal	
<b>VOC Content (%):</b>	Not determined	
<b>EVAPORATION RATE:</b>	Not determined	
<b>PH:</b>	1.5 - 3.5	

**10. STABILITY AND REACTIVITY**

<b>STABILITY DATA:</b>	STABLE
<b>POLYMERIZATION:</b>	Will Not Occur.
<b>HAZARDOUS DECOMPOSITION:</b>	Carbon Dioxide. Carbon Monoxide. Oxides of Phosphorus.
<b>INCOMPATIBILITY (MATERIALS TO AVOID):</b>	Alkali metals. Oxidizing materials. Strong alkalies. Non-protected steel.
<b>CONDITIONS/HAZARDS TO AVOID:</b>	Freezing conditions.

**11. TOXICOLOGICAL INFORMATION**

<b>ACUTE TOXICITY:</b>	Not Established
<b>EFFECTS OF CHRONIC EXPOSURE:</b>	Not established.
<b>OTHER TOXIC EFFECTS:</b>	Not established.

**12. ECOLOGICAL INFORMATION**

<b>ECOTOXICOLOGICAL INFORMATION:</b>	No data at this time
<b>CHEMICAL FATE INFORMATION:</b>	No data at this time.
<b>MOBILITY:</b>	Not applicable.
<b>PERSISTENCE/DEGRADABILITY:</b>	Not applicable
<b>BIOACCUMULATIVE POTENTIAL:</b>	Not applicable
<b>OTHER ADVERSE EFFECTS:</b>	Not applicable

**13. DISPOSAL CONSIDERATIONS**

**WASTE DISPOSAL METHODS:** Dispose in accordance with Federal, State and Local regulations.

**14. TRANSPORT INFORMATION**

Please refer to the Bill of Lading/Receiving documents for up to date shipping information.

**15. REGULATORY INFORMATION**

PRODUCT COMPOSITION CAS#	%	TSCA:	EINECS:	Canada DSL:	CA PROP 65:
PHOSPHONO-BUTANETRI CARBOXYLIC ACID 37971-36-1	5 - 10	Listed	Listed	Listed	Not Listed
1-Hydroxyethylidene - 1, 1- diphosphonic acid 2809-21-4	5 - 10	Listed	Listed	Listed	Not Listed

PRODUCT COMPOSITION CAS#	%	CERCLA:	SARA 302:	SARA 313:
PHOSPHONO-BUTANETRI CARBOXYLIC ACID 37971-36-1	5 - 10	Not Listed	Not Listed	Not Listed
1-Hydroxyethylidene - 1, 1- diphosphonic acid 2809-21-4	5 - 10	Not Listed	Not Listed	Not Listed

None of the components of this material are included in the Massachusetts Substance List nor are present at or above reportable levels.

None of the components of this material are included in the New Jersey Substance List nor are present at or above reportable levels.  
None of the components of this material are included in the Pennsylvania Substance List nor are present at or above reportable levels.

## 16. OTHER INFORMATION

This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

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