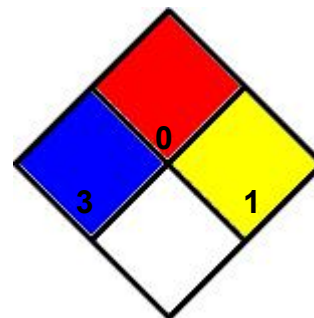


# MATERIAL SAFETY DATA SHEET

## RESONATOR

### COMPANY IDENTIFICATION

**MANUFACTURER:** Chem-Tech  
400 Ternes Dr.  
Random Lake, WI 53075



**INFORMATION PHONE:** 920-994-2299  
**EMERGENCY:** 1-800-255-3924  
**HMS HEALTH:** 3    **FLAMMABILITY:** 0    **REACTIVITY:** 1    **PROTECTIVE:** G

### SECTION I - PRODUCT IDENTIFICATION

**PRODUCT:** RESONATOR

**PREPARED BY:** Jason Sprang

**DATE PREPARED:** 2/28/2003

**LAST REVISION:** 9/1/2010

**HAZARD CLASS:** 8

**UN:** 1805

**PACKING:** III

**GUIDE NUMBER:** 154

**SHIPPING NAME:** Phosphoric acid

### SECTION II - HAZARDOUS INGREDIENTS

<u>Chemical Name</u>	<u>%</u>	<u>CAS #</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
PHOSPHORIC ACID	30	7664382	1 MG/M3	TWA: 1 MG/M3

### SECTION III - PHYSICAL CHARACTERISTIC

**BOILING POINT:** 212°F

**SPECIFIC GRAVITY:** 1.1

**VAPOR PRESSURE:** N/A

**MELTING POINT:** N/A

**EVAPORATION:** N/A

**VAPOR DENSITY:** N/A

**PH:** 8.2

**SOLUBILITY IN WATER:** Soluble

**APPEARANCE AND ODOR:** Pink to dark liquid, Slight odor

### SECTION IV - FIRE/EXPLOSION

**FLASH POINT:** N/A

**FLASH POINT METHOD USED:** N/A

**LEL:** 0

**UEL:** 0

**EXTINGUISHING MEDIA:** Use media which is safe for surrounding fire.

**SPECIAL FIRE FIGHTING:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** N/A

### SECTION V - REACTIVITY DATA

**STABLE:** Stable

**INCOMPATIBILITY:** Strong acids and oxidizing agents

**HAZARDOUS DECOMPOSITION OR BY PRODUCTS:** Unknown

**HAZARDOUS POLYMERIZATION:** Will Not Occur

## SECTION VI - HEALTH HAZARD DATA

### ACUTE HEALTH EFFECTS

**EYE CONTACT:** Corrosive to eyes.

**INHALATION:** Corrosive to the nose, throat, and respiratory tract.

**INGESTION:** May be fatal if ingested.

**SKIN CONTACT:** This substance is corrosive to the skin.

**SIGNS AND SYMPTOMS OF EXPOSURE:** Shortness of breathing, confused behavior, redness of skin, swelling of tissues, watery eyes, nausea.

**AGGRAVATED MEDICAL CONDITIONS:** N/A

### EMERGENCY FIRST AID PROCEDURES

**EYE CONTACT:** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined and tested by medical personnel.

**INHALATION:** Remove to fresh air. Monitor patient and call emergency personnel if necessary.

**INGESTION:** If swallowed, do NOT induce vomiting. Give victim a glass of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person.

**SKIN CONTACT:** Wash with soap and water. Get medical attention if irritation develops or persists.

## SECTION VII - SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:** Ventilate area of leak or spill. Clean-up personnel require protective clothing and respiratory protection from vapors. Only specially trained or qualified personnel should handle the emergency.

**WASTE DISPOSAL METHOD:** The preferred options for disposal are to send to licensed reclaimers, or to permitted incinerators. Any disposal practice must be in compliance with federal, state, and local regulations. Do not dump into sewers, ground, or any body of water.

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

**OTHER PRECAUTIONS:** Uses only in well ventilated areas do not use in confined spaces.

## SECTION VIII - CONTROL MEASURES

**RESPIRATORY PROTECTION:** A NIOSH approved respirator with a multi gas cartridge is required when using this product.

**VENTILATION:** Provide exhaust ventilation sufficient to keep the airborne concentration of this product below its exposure limits.

**PROTECTIVE GLOVES:** Nitrile, North brand Silver shield, or neoprene glove are recommended.

**EYE PROTECTION:** Safety glasses with side shields (or goggles) and a face shield.

**OTHER PROTECTIVE CLOTHING:** Where splashing is possible, full chemically resistant protective clothing (e.g., acid suit) and boots are required.

**WORK / HYGENIC:** Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using the toilet.