

Common Name: **TETRASODIUM PYROPHOSPHATE**

Synonyms: Sodium Pyrophosphate; Tetron

CAS No: 7722-88-5

Molecular Formula: Na<sub>4</sub>O<sub>7</sub>P<sub>2</sub>

RTK Substance No: 1837

Description: Odorless, white powder or granular solid

### HAZARD DATA

Hazard Rating	Firefighting	Reactivity
<p><b>2 - Health</b></p> <p><b>0 - Fire</b></p> <p><b>0 - Reactivity</b></p> <p>DOT#: None</p> <p>ERG Guide #: 154</p> <p>Hazard Class: None</p>	<p>Extinguish fire using an agent suitable for type of surrounding fire. <b>Tetrasodium Pyrophosphate</b> itself does not burn.</p> <p>POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Phosphorus Oxides</i> and <i>Sodium Oxides</i>.</p>	<p><b>Tetrasodium Pyrophosphate</b> is not compatible with STRONG ACIDS (such as HYDROCHLORIC, SULFURIC and NITRIC); OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE); ETHYL ALCOHOL; ALUMINUM; and MAGNESIUM.</p>

### SPILL/LEAKS

**Isolation Distance:**

Spill: 25 meters (75 feet)

Fire: 800 meters (1/2 mile)

Moisten spilled material first or use a HEPA-filter vacuum for clean-up and place into sealed containers for disposal.

Thoroughly wash area after clean-up with water and detergent.

### PHYSICAL PROPERTIES

<b>Odor Threshold:</b>	Odorless
<b>Flash Point:</b>	Noncombustible
<b>Vapor Pressure:</b>	0 mm Hg at 68°F (20°C)
<b>Specific Gravity:</b>	2.5 (water = 1)
<b>Water Solubility:</b>	Soluble
<b>Boiling Point:</b>	Decomposes
<b>Melting Point:</b>	1,810°F (993°C)
<b>Molecular Weight:</b>	265.9
<b>pH:</b>	10.2 (1% solution)

### EXPOSURE LIMITS

**NIOSH:** 5 mg/m<sup>3</sup>, 10-hr TWA

The Protective Action Criteria values are:

PAC-1 = 15 mg/m<sup>3</sup>

PAC-2 = 25 mg/m<sup>3</sup>

PAC-3 = 500 mg/m<sup>3</sup>

### PROTECTIVE EQUIPMENT

<b>Gloves:</b>	Nitrile, Neoprene and Natural Rubber
<b>Coveralls:</b>	Tyvek®
<b>Respirator:</b>	>5 mg/m <sup>3</sup> - Full facepiece APR with <i>High efficiency filters</i> >25 mg/m <sup>3</sup> - SCBA

### HEALTH EFFECTS

<b>Eyes:</b>	Irritation and burns
<b>Skin:</b>	Irritation and burns
<b>Inhalation:</b>	Nose and throat irritation with coughing and wheezing.

### FIRST AID AND DECONTAMINATION

**Remove** the person from exposure.

**Flush** eyes with large amounts of water for at least 15 minutes. Remove contact lenses if worn.

**Quickly** remove contaminated clothing and wash contaminated skin with large amounts of water.

**Begin** artificial respiration if breathing has stopped and CPR if necessary.

**Transfer** promptly to a medical facility.