

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

<b>MSDS Name:</b>	Uridine 5'-triphosphate sodium salt
<b>Synonyms:</b>	UTP Na <sub>3</sub>
<b>Company Identification:</b>	PI Chemicals Ltd. Building B, 633 E Shan Road, Pudong New Area Shanghai 200127, China
<b>Telephone Number:</b>	86-21-58953700
<b>Fax Number:</b>	86-21-58953701

### Section 2 - Product Information

<b>Catalog Number:</b>	PI-27312
<b>CAS Number:</b>	19817-92-6
<b>MDL Number:</b>	MFCD00044310
<b>Purity:</b>	95%

### Section 3 - Physical and Chemical Properties

<b>Physical:</b>	Powder
<b>Color:</b>	White or off-white
<b>Molecular Formula:</b>	C <sub>9</sub> H <sub>12</sub> N <sub>2</sub> Na <sub>3</sub> O <sub>15</sub> P <sub>3</sub>
<b>Molecular Weight:</b>	550.09
<b>Freezing/Melting Point:</b>	Undetermined
<b>Boiling Point:</b>	Undetermined
<b>Flash Point:</b>	Undetermined
<b>Autoignition Temperature:</b>	Undetermined
<b>Refractive Index (n<sub>D</sub>20):</b>	Undetermined
<b>Density:</b>	Undetermined
<b>Decomposition Temperature:</b>	Undetermined
<b>Solubility:</b>	Undetermined

### Section 4 - Hazards Identification

<b>Inhalation:</b>	Toxic if inhaled. Causes respiratory tract irritation.
<b>Skin:</b>	Toxic if absorbed through skin. Causes skin irritation.
<b>Eyes:</b>	Causes eye irritation.
<b>Ingestion:</b>	Toxic if swallowed.

## **Section 5 - First Aid Measures**

<b>General advice:</b>	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
<b>If inhaled:</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<b>In case of skin contact:</b>	Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.
<b>In case of eye contact:</b>	Flush eyes with water as a precaution.
<b>If swallowed:</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## **Section 6 - Stability and Reactivity**

<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Conditions of Instability:</b>	Avoid excessive heat and light. Refrigerate.
<b>Incompatibilities:</b>	Reactive with oxidizing agents.

## **Section 7 - Handling and Storage**

**IRRITANT. REFRIGERATE.** Keep away from heat. Mechanical exhaust required. When not in use, tightly seal the container and store in a dry, cool place. Avoid excessive heat and light. Do not breathe dust. Always store away from incompatible compounds such as oxidizing agents..

## **Section 8 - Personal Protection**

<b>Eyes:</b>	Wear appropriate protective eyeglasses.
<b>Skin:</b>	Wear appropriate protective gloves to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective clothing to prevent skin exposure.
<b>Respirators:</b>	Use an approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## **Section 9 - Fire and Explosion Hazard Data**

<b>General Information:</b>	As in any fire, wear a self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and protective clothing to prevent contact with skin and eyes.
<b>Extinguishing Media:</b>	Use water spray, dry chemical, carbon dioxide, or appropriate foam.

## **Section 10 - Accidental Release Measures**

<b>General Information:</b>	Use proper personal protective equipment as indicated in Section 8.
<b>Spills/Leaks:</b>	Vacuum or sweep up material and place into a suitable disposal container.

## ***Section 11 - Toxicological Information***

**RTECS#:** CAS# 19817-92-6: Not available.  
**LD50/LC50:** RTECS: Not available.  
**Carcinogenicity:** Uridine 5'-triphosphate sodium salt  
–Not listed as a carcinogen by IARC, NTP, or OSHA.

## ***Section 12 - Environmental information***

Not available

## ***Section 13 - Disposal Consideration***

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

## ***Section 14 - Transport Information***

**IATA:** Not dangerous goods.  
**IMO:** Not dangerous goods.  
**RID/ADR:** Not dangerous goods.

## ***Section 15 - Regulatory Information***

OSHA Hazards: Irritant

Risk Statement:

R36/37/38- Irritating to eyes, respiratory system and skin.

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## ***Section 16 - Additional Information***

**MSDS Creation Date:** October 11, 2009  
**Update:** March 21, 2011

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