

## Material Safety Data Sheet

### Section 1 - Chemical Product and Company Identification

*MSDS Name:* Enprofylline  
*Synonyms:* 3-Propylxanthine  
*Company Identification:* PI Chemicals Ltd.  
Building B, 633 E Shan Road, Pudong New Area  
Shanghai 200127, China  
*Telephone Number:* 86-21-58953700  
*Fax Number:* 86-21-58953701

### Section 2 - Product Information

*Catalog Number:* PI-21741  
*CAS Number:* 41078-02-8  
*MDL number:* MFCD00043205  
*EC Number:* 255-201-8  
*Purity:* 98%

### Section 3 - Physical and Chemical Properties

*Physical state:* Powder  
*Color:* Brown  
*Molecular Formula:* C<sub>8</sub>H<sub>10</sub>N<sub>4</sub>O<sub>2</sub>  
*Molecular Weight:* 194.19  
*Freezing/Melting Point:* 287 °C (549 °F)  
*Boiling Point:* Not available  
*Flash Point:* Not available  
*Autoignition Temperature:* Not available  
*Refractive Index (n<sub>D</sub>20):* Not available  
*Density:* Not available  
*Decomposition Temperature:* Not available  
*Solubility:* Not available

### Section 4 - Hazards Identification

*Eye:* May cause eye irritation.  
*Skin:* May be harmful if absorbed through skin. May cause skin irritation.  
*Ingestion:* Toxic if swallowed.  
*Inhalation:* Harmful if inhaled. May cause respiratory tract irritation.

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

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

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

- Chemical Stability:* Stable under recommended temperatures and pressures.
- Materials to avoid:* Strong oxidizing agents.
- Hazardous Decomposition Products:* Carbon oxides, nitrogen oxides (Nox).

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

- Handling:* Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
- Storage:* Keep container tightly closed in a dry and well-ventilated place.

### **Section 8 - Personal Protection**

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

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

- General Information:* 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.
- Extinguishing Media:* Use water spray, dry chemical, carbon dioxide, or appropriate foam.

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

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

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

*RTECS#:* CAS# 41078-02-8: UO8439700.  
*LD50/LC50:* RTECS: LD50 Oral - rat - 481 mg/kg.  
*Carcinogenicity:* Enprofylline –Not listed as a carcinogen by ACGIH, 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***

### *European/International Regulations*

European Labeling in Accordance with EC Directives

Signal word: Xn

Hazard statement(s):

H302 Harmful if swallowed.

Risk Phrases:

R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

Safety Phrases:

S 36: Wear suitable protective clothing.

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

*MSDS Creation Date:* 15 May, 2009  
*Update:* 22 July, 2011

*The above information is believed to be accurate and represents the best knowledge available to us currently. However,*

*we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall PI Chemicals, be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, even if PI Chemicals has been advised of the possibility of such damages.*