Material Safety Data Sheet

Section 1: Chemical Product and Company Identification
Catalog Number: 5800. 89619. E. PM4680. SPS6260
Product Identity: PICRIC ACID Aqueous Solutions, TRINITROPHENOL, TS (PICRIC ACID TS)
Manufacturer's Name: RICCA CHEMICAL COMPANY LLC
CAGE Code: 4T2WV. DV533. 4XZQ2
Address: 458 West Fork Dr
Arlington, TX 76012
Date Prepared: 10/27/00
Revision: 6
Last Revised: 09/20/2016
Data Printed: 11/17/2007 12:24 15 pm

Section 2: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Registry #</th>
<th>Concentration</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water, Deionized</td>
<td>7732-18-5</td>
<td>Balance</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
<tr>
<td>Picric Acid (2,4,6-Trimethoxyphenol)</td>
<td>98-22-1</td>
<td>0.1 – 2.0 %</td>
<td>Not Available</td>
<td>Not Available</td>
</tr>
</tbody>
</table>

Section 3: Hazard Identification
Emergency Overview: The greatest hazard associated with these solutions occurs if the Picric Acid were allowed to dry completely. Picric Acid may detonate if allowed to dry completely. May be absorbed through the skin. Wash areas of contact with plenty of water. No required dikes with water. Aspiration hazard does not indicate working. Call a physician if necessary.
Target Organs: eyes, skin, liver, blood.
Eye Contact: May cause irritation. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not allow this material to dry out. Do not inhale picric acid dust. May cause irritation. Aspiration hazard does not indicate working. Call a physician if necessary.
Skin Contact: May be absorbed through the skin. May cause irritation. May cause irritation. Aspiration hazard does not indicate working. Call a physician if necessary.
Inhalation: May cause irritation. May cause irritation. Aspiration hazard does not indicate working. Call a physician if necessary.
Chronic Effects: No chronic effects noted. No chronic effects noted. No chronic effects noted. No chronic effects noted. No chronic effects noted. No chronic effects noted. No chronic effects noted.
Reproductive Information: Not Applicable

Section 4: First Aid Measures - In all cases, seek qualified evaluation.
Eye Contact: Ingest immediately with large quantity of water at least 15 minutes. Call a physician if irritation develops.
Inhalation: Remove to fresh air. Get artificial respiration if necessary. If breathing is difficult, give oxygen.
Skin Contact: Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Ingestion: Do not immediately with water or milk. Vomiting may cause spontaneous, but do not induce. If vomiting occurs, keep head below hips to prevent aspiration into lungs. Call a physician immediately.

Section 5: Fire Fighting Measures
Flash Point: Not Available
LFL: Not Available
Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Water: water spray, foam, or dry chemical. If using water, do not allow water run off to enter sewer.
Fire & Explosion Hazards: Picric Acid may decompose explosively in fire. It forms stable, non-volatile, and many of its salts are more sensitive explosives than Picric Acid itself.
Fire Fighting Instructions: Use normal procedures. Use fire fighting equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures
Always do the spill with butyl rubber gloves or a soda ash-hand mixture (1:30). Contain the spill. Wash with water after exposure. Always dispose of the subject in accordance with local regulations.

Section 7: Handling and Storage
As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Do not allow this material to dry out. Do not inhale picric acid dust. May cause irritation. Aspiration hazard does not indicate working. Call a physician if necessary.

Section 8: Exposure Control/Personal Protection
Engineering Controls: No specific controls are needed. Normal room ventilation is adequate.
Respiratory Protection: Normal room ventilation is adequate.
Skin Protection: Chemical-resistant gloves.
Eye Protection: Safety glasses or goggles.

Section 9: Physical and Chemical Properties
Appearance: Clear yellowish.
Odor: Odorless.
Solvency in Water: Induces
Specific Gravity: 1.5 - 2.0
pH: 5 - 10

Section 10: Stability and Reactions
Chemical Stability: Stable under normal conditions of use and storage. Very unstable if allowed to dry completely.
Incompatibility: Copper, Lead, Zinc, other metals and metal salts, paper, concrete.
Hazardous Decomposition Products: Hydrogen sulfide.
Hazardous Polymer: Water-insoluble.

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Section 11. Toxicological Information
LD50: Oral: Rat: 260 mg/kg (Formic Acid) behavioral and sensory organ (local); effects died.

Section 12. Ecological Information
Ecotoxicological Information: No information found

Section 13. Disposal Considerations
Absorb the spill with sodium bicarbonate or a sodium carbonate mixture (10 L). Consult manual for handling of the solution. Do not allow material to dry. Dispose of material in a RCRA-approved hazardous waste disposal facility equipped with a chemical incinerator with an afterburner and scrubbers. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive – selected regulations represented)
OSHA: These items meet the OSHA Hazard Communication Standard (29 CFR 1910) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory. No mixtures (hydrates) of item listed on the TSCA Inventory.

California: None Reported

Pennsylvania: Picto Acid (2.4.6-Triphenylphenol) is listed as an Environmental Hazard on the state’s Hazardous Substance List. Picto Acid (2.4.6-Triphenylphenol) is listed as an Environmental Hazard on the state’s Hazardous Substance List.

ICCA: Status: Not Applicable

CERCLA: Not Applicable

WRM: Not Applicable

Section 16. Other Information
NFPA Ratings
Health 2 Flammability 0 Reactivity 2 Special Notice: Key None

Hazardous Waste: 2 Flammability 0 Reactivity 2 Protective Equipment: B (Protective Eyewear, Gloves)

Rev. 1, 10-01-2001: Reformatted to electronic data format
Rev. 2, 10-01-2002: Section 13 added for formic acid.
Rev. 3, 09-01-2004: Section 13 added for formic acid.
Rev. 4, 09-01-2005: Section 13 added for formic acid.
Rev. 5, 03-01-2006: Section 13 added for formic acid.
Rev. 6, 03-01-2006: Section 13 added for formic acid.
Rev. 7, 03-01-2006: Section 13 added for formic acid.
Rev. 8, 03-01-2006: Section 13 added for formic acid.

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Absorption of its characteristics by concentration, evaporation; addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.