



MSDS

For RICCA, SpectroPure, Red Bird, and Solutions Plus Brands
Emergency Contact(24 hr) -- CHEMTREC®
Domestic: 800-424-9300
International: 703-527-3887

PICRIC ACID Aqueous Solutions, TRINITROPHENOL TS (PICRIC ACID TS)

Material Safety Data Sheet

Section 1: Chemical Product and Company Identification

Table with 2 columns: Field Name and Value. Fields include Catalog Number (5860, 8696 8, P068850, SP068850), Product Identity (PICRIC ACID Aqueous Solutions, TRINITROPHENOL TS), Manufacturer's Name (RICCA CHEMICAL COMPANY LLC), Emergency Contact (24 hr) -- CHEMTREC®, CAGE Code (4TCW6, 0V553, 4XZQ2), Address (448 West Fork Dr, Arlington, TX 76012), Telephone Number For Information (817-461-5601), Date Prepared (10/27/00), Revision (6), Last Revised (09/16/2008), Date Printed (11/17/2009 12:24 18 pm). Handwritten number 586016 is present above the table.

Section 2: Composition/Information on Ingredients

Table with 5 columns: Component, CAS Registry #, Concentration, ACGIH TLV, OSHA PEL. Rows include Water, Deionized (7732-18-5, balance, Not Available, Not Available) and Picric Acid (2,4,6-Trinitrophenol) (88-93-1, 0.1 - 1.5%, Not Available, Not Available).

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. If ingested, dilute with water. Aspiration hazard, do not induce vomiting. Call a physician if necessary.

Target Organs: eyes, skin, liver, blood.

Eye Contact: May cause irritation, redness, pain, and tearing.

Inhalation: May cause irritation.

Skin Contact: May be absorbed through the skin. May cause irritation, allergic reaction and symptoms similar to inhalation. Will stain areas of contact. Stains may be removed using Reagent Alcohol or dilute Ammonium Hydroxide Solution.

Ingestion: May cause symptoms similar to inhalation.

Chronic Effects/Carcinogenicity: None.

IARC - No

NTP - No

OSHA - No

Reproductive Information: Not Applicable



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Teratology (Birth Defect) Information: Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Picric Acid (2,4,6-Trinitrophenol). Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Picric Acid (2,4,6-Trinitrophenol).

Section 4: First Aid Measures - In all cases, seek qualified evaluation.

Eye Contact: Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.

Inhalation: Remove to fresh air. Give 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: Dilute immediately with water or milk. Vomiting may occur spontaneously, 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

Method Used: Not Available

LFL: Not Available

UFL: 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 raw material is explosive. Picric Acid can decompose explosively in a fire. It forms salts (picrates) rather easily and many of its salts are more sensitive explosives than Picric Acid itself.

Fire Fighting Instructions: Use normal procedures/instructions.

Fire Fighting Equipment: Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6: Accidental Release Measures

Absorb the spill with Sodium Bicarbonate or a soda ash-sand mixture (10:90). Containerize for proper disposal. Wash site with soda ash solution. Always dispose of 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 let dry picric acid (crystals) form in container or on the cap threads of container. Keep away from heat. Keep away from sources of ignition. Keep away from direct sunlight or strong incandescent light. Ground all equipment containing material. Empty containers may contain hazardous residue and pose a fire risk. Do not ingest. Do not breathe dust. Take precautionary measures against electrostatic discharges. Avoid shock and friction.

Safety Storage Code: General

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, yellow liquid.

pH: 1.5 - 2.0

Odor: Odorless.

Boiling Point(°C): Approximately 100

Solubility in Water: Infinite.

Melting Point(°C): Approximately 0

Specific Gravity: Approximately 1.

Vapor Pressure: Not Applicable.

Section 10: Stability and Reactivity

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, plaster, concrete.

Hazardous Decomposition Products: When heated to decomposition, can emit toxic oxides of Nitrogen.

Hazardous Polymerization: Will not occur.



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Section 11. Toxicological Information

LD50, Oral, Rat: 200 mg/kg (Picric Acid); behavioral and sense organ (eye) effects noted.

Section 12. Ecological Information

Ecotoxicological Information: No information found.

Chemical Fate Information: No information found.

Section 13. Disposal Considerations

Absorb the spill with Sodium Bicarbonate or a soda ash-sand mixture (10:90). Containerize for proper disposal. Wash site with soda ash solution. Do not allow material to dry. Dispose of properly in a RCRA approved hazardous waste disposal facility equipped with a chemical incinerator with an afterburner and rubber. Always dispose of in accordance with local, state and federal regulations.

Section 14. Transport Information

Part Numbers

This product is not regulated.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA Status: These items meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA Status: All components of this solution are listed on the TSCA Inventory or are mixtures (hydrates) of items listed on the TSCA Inventory.

Sara Title III:

Section 302 Extremely Hazardous Substances: Not Applicable.

Section 311/312 Hazardous Categories: Acute, Reactivity: Yes, Chronic, Fire, Pressure: No.

Section 313 Toxic Chemicals: Not Applicable.

California: None Reported.

Pennsylvania: Picric Acid (2,4,6-Trinitrophenol) is listed as an Environmental Hazard on the state's Hazardous Substances List. Picric Acid (2,4,6-Trinitrophenol) is listed as an Environmental Hazard on the state's Hazardous Substances List.

RCRA Status: Not Applicable.

CERCLA Reportable Quantity: None Reported.

WHMIS: Not Applicable.

Section 16. Other Information

NFPA Ratings

Health 2, Flammability 0, Reactivity 2, Special Notice Key None

HMIS Ratings

Health 2, Flammability 0, Reactivity 2, Protective Equipment B (Protective Eyewear, Gloves)

Rev 1, 10-08-2001: Reformatted to electronic data format.

Rev 2, 10-08-2002 (Section 1) added Solutions Plus catalog number P058850.

Rev 3, 03-05-2004 (Section 1) added catalog number 8036 8.

Rev 4, 03-01-2005 revised title.

Rev 5, 04-04-2008 (Section 7) revised handling information.

Rev 6, 09-16-2008 (Section 2) revised concentration of Picric Acid from < 2%.



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When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration 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.