

Medical Chemical Corp.  
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Torrance, CA 90501

Customer Service: Phone (310)787-6800  
FAX (310)787-4464

CHEMTREC Emergency Response Telephone Number: (800)424-9300

Note: The CHEMTREC phone number is only for emergencies involving spills, leaks, fire, exposure or accident. Please direct all other inquiries to our customer service phone number.

### Section I - Product Identification

A solution of 2,4,6 trinitrophenol in water.

### Section II - Hazards Identification

Warning. Harmful if swallowed. Wash thoroughly after handling. Do not eat drink or smoke while using this product. If swallowed, rinse mouth with water and call a poison center.

#### Safety Ratings

*Health:* Harmful *Flammability:* None *Reactivity:* Violent *Contact:* Slight

Recommended safety equipment: safety goggles, lab coat and proper gloves

*Storage:* General storage

NFPA Ratings

Health = 2 Flammability = 0 Reactivity = 2



#### Potential Health Effects

The liquid is irritating to the skin, eyes and mucous membranes. Ingestion will result in coma and death. The toxicology of this compound have not been completely examined. It is presumed that the toxicity of this item is similar to other aromatic nitrogen compounds. Picric acid is absorbed through the skin

*Inhalation:* Irritating

*Ingestion:* While the toxicity of this compound is low, large doses may cause nausea, vomiting, diarrhea, etc.

*Skin contact:* Picric acid is a skin irritant.

*Eye contact:* May be irritating.

*Chronic Exposure:* May cause cracking of skin and/or dermatitis.

*Aggravation of preexisting conditions:* Preexisting eye, skin, and respiratory conditions may be aggravated

### Section III - Composition/Information on Components

Ingredients	CAS#	OSHA PeI	ACGIH TLV	Other Limits	%
Picric acid	88-89-1	0.1 mg/m3	0.1 mg/m3 TWA		0.1% w/v

### Section IV - First Aid Measures

*Inhalation:* Remove from source of exposure and get immediate medical attention for any breathing difficulty.

*Ingestion:* Do not induce vomiting. Get immediate medical attention even if symptoms improve.

*Skin Contact:* Wash affected area with soap and water. Get medical advice if irritation develops.

*Eye Contact:* Rinse thoroughly with running water. Get medical advice if irritation develops.

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## Section V - Fire Fighting Measures

*Flash point:* Not applicable.

*Flammable Limits:* Not applicable.

*Fire:* Not flammable.

*Explosion:* picric acid is explosive when dry.

*Fire Extinguishing Media:* Alcohol foam, carbon dioxide or dry chemical.

*Special information:* Pyrolysis will release corrosive oxides.

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## Section VI - Accidental Release Measures

Remove sources of ignition, absorb with a suitable absorbent and store in a suitable container for disposal.

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## Section VII - Handling and Storage

Store in a closed container away from sources of ignition. Drums should be bonded and grounded to avoid static discharge.

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## Section VIII - Exposure Control/Personal Protection

*Airborne Exposure Limits:* See section III.

*Ventilation System:* Local exhaust such as explosion proof chemical fume hoods are recommended. When required, Refer to the ACGIH document, "Industrial Ventilation, a Manual of Recommended Practices" for details about ventilation.

*Personal Respirator:* Usually not required. In case of emergency, or when exposure levels are unknown, use a positive pressure, full face piece, air supplied respirator.

*Skin protection:* Protective gloves and clothing are recommended.

*Eye Protection:* Laboratory safety goggles or similar products are required as part of good laboratory practice.

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## Section IX - Physical and Chemical Properties

*Boiling Point:* 100°C @ 760 mm Hg

*Vapor pressure (mm Hg):* 18 @ 20°C

*Vapor Density (air = 1):* 0.6

*Appearance and Odor:* A clear yellow liquid.

*Density:* 1.00 g/ml

*Evaporation Rate (water = 1):* 1

*Solubility:* Infinitely miscible with water

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## Section X - Stability and Reactivity

*Stability:* Stable.

*Hazardous Decomposition Products:* Nothing unusual.

*Hazardous polymerization:* Will not occur.

*Incompatibilities:* Store away from oxidizers.

*Conditions to avoid:* Sources of ignition.

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## Section XI - Toxicological Information

Picric acid is toxic by ingestion or absorption.

Cancer lists

Ingredient

Picric acid

Known Carcinogenicity?

no

Anticipated?

no

IARC Category

none

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## Section XII - Ecological Information

*Environmental Fate:* Picric acid is biodegradable and not expected to accumulate in the environment.

*Environmental Toxicity:* Picric acid is toxic to fish.

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## Section XIII - Disposal Considerations

Local governments may restrict the amounts of picric acid that may be flushed down drain. Dispose of contents and container in accordance with all government regulations.

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**Section XIV - Transportation Information**

Not regulated.

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**Section XV - Regulatory Information****Chemical Inventory Status**

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<u>Ingredient</u>	<u>TSCA</u>	<u>EC</u>
picric acid	Yes	Yes

**Federal, State and International Regulations**

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<u>Ingredient</u>	<u>SARA 302</u>		<u>SARA 313</u>		<u>RCRA</u>	<u>TSCA</u>	<u>Ca. Prop 65</u>
	<u>RQ</u>	<u>TPQ</u>	<u>List</u>	<u>Category</u>	<u>261.33</u>	<u>8(D)</u>	
picric acid	No	No	Yes	No	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: Yes

SARA 311/312: Acute: Yes, Chronic: Yes, Fire: No, Pressure: No, Reactivity: Yes

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**Section XVI - Other Information**

This information is believed to be correct but is not warranted as such, nor does it purport to be all inclusive.

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