

ISO9001:2000 Certified



Material Safety Data Sheet Picric acid, Saturated

Section 1 - Chemical Product and Company Identification

MSDS Name:

Picric acid, Saturated

Catalog Numbers:

LC18670

Synonyms:

None

Company Identification:

LabChem, Inc.
200 William Pitt Way
Pittsburgh, PA 15238

Company Phone Number:

(412) 826-5230

Emergency Phone Number:

(800) 424-9300

CHEMTREC Phone Number:

(800) 424-9300

Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name:	Percent
7732-18-5	Water	balance
88-89-1	Picric acid	1.2

Section 3 - Hazards Identification

Emergency Overview

Appearance: *Yellow Liquid.*

Caution! *May cause eye and skin irritation. May cause respiratory and digestive tract irritation.*

Target Organs: *No data available.*

Potential Health Effects

Eye:

May cause eye irritation.

Skin:

May cause skin irritation.

Ingestion:

May cause gastrointestinal irritation.

Inhalation:

May cause respiratory tract irritation. May cause mucous membrane irritation.



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Chronic:

Prolonged or repeated eye contact may cause conjunctivitis. Repeated ingestion may cause liver and kidney damage. Prolonged skin contact may cause dermatitis. Repeated inhalation may cause yellowing of the teeth and skin.

Section 4 - First Aid Measures

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids until no evidence of chemical remains. Get medical aid at once.

Skin:

Get medical aid. Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion:

Induce vomiting (touch finger to back of throat) keeping head lower than hips (prevent aspiration into lungs). GET MEDICAL ATTENTION IMMEDIATELY. Give sodium bicarbonate (baking soda), 2 teaspoons in glass of water.

Inhalation:

Get medical aid at once. Give artificial respiration if necessary. Keep victim warm, at rest. Move victim to fresh air.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information:

Aqueous solution--negligible fire or explosive hazard. DANGEROUS fire and explosive hazard when dry.

Extinguishing Media:

In case of fire use water spray, dry chemical, carbon dioxide, or appropriate foam.

Autoignition Temperature:

Not applicable.

Flash Point:

Not applicable.

NFPA Rating:

CAS# 7732-18-5: Not published.

CAS# 88-89-1: Health - 3; flammability - 4; reactivity - 4.

Explosion Limits:

Lower: No information

Upper: No information

Section 6 - Accidental Release Measures

General Information:

Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Shut off ignition source, avoid vapors. Isolate, ventilate spill area. Wear protective equipment.

Absorb liquid with a non-combustible absorbent (sand), place in a suitable container (glass, plastic,



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lined metal) and label for disposal. Close tightly, label "Flammable" for later disposal. Contain if possible, prevent run-off into drains and sewers.

Section 7 - Handling and Storage

Handling:

Protect from heat and incompatible materials.

Storage:

Store as heat/ignition protected flammable.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Ventilation equipment must be explosion-proof. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Provide local exhaust ventilation to meet OSHA exposure limits.

Exposure Limits:

Chemical Name:	ACGIH	NIOSH	OSHA
Water	None of the components are on this list.	None of the components are on this list.	None of the components are on this list.
Picric acid	0.1 mg/m ³ TWA	0.1 mg/m ³ TWA	0.1 mg/m ³ TWA; prevent or reduce skin absorption;

OSHA Vacated PELs:

Picric acid: 0.1 mg/m³ TWA

Personal Protective Equipment

Eyes:

Do not wear contact lenses when working with chemicals. Wear splash-proof safety goggles.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Use supplied air (SA) respirators or self-contained breathing apparatus (SCBA) at 2000ppm; SA or SCBA with Facepiece at 10,000ppm; above 10,000ppm use type C SAF in positive pressure/continuous flow mode; pos.press. SCBA for escape.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: Yellow

Odor: Odorless

pH: Acidic

Vapor Pressure: No information found.



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Vapor Density: No information found.
Evaporation Rate: No information found.
Viscosity: No information found.
Boiling Point: > 100°C (> 212.00°F)
Freezing/Melting Point: < 0°C (< 32.00°F)
Decomposition Temperature: No information found.
Solubility in water: Soluble.
Specific Gravity/Density: >1
Molecular Formula: C₆H₃O₇N₃
Molecular Weight: 229.0369

Section 10 - Stability and Reactivity

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Do not allow to become dry. Picric acid will explode under certain conditions.

Incompatibilities with Other Materials:

None reported.

Hazardous Decomposition Products:

Toxic oxides of carbon, toxic oxides of nitrogen.

Hazardous Polymerization:

Will not occur.

Section 11 - Toxicological Information

RTECS:

CAS# 7732-18-5: ZC0110000.

CAS# 88-89-1: TJ7875000.

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg.

CAS# 88-89-1:

Oral, rat: LD50 = 200 mg/kg.

Carcinogenicity:

CAS# 7732-18-5: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

CAS# 88-89-1: Not listed as a carcinogen by ACGIH, IARC, NIOSH, NTP, OSHA, or CA Prop 65.

Epidemiology:

Not classified as a carcinogen by OSHA, IARC or NTP.

Teratogenicity:

Reproductive:

Mutagenicity:

Neurotoxicity:

Mutagenic data reported in experimental animals (see RTECS).



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Section 12 - Ecological Information

Ecotoxicity:

No information found.

Environmental:

No data available.

Physical:

No data available.

Other:

None.

Section 13 - Disposal Considerations

Dispose of in accordance with Federal, State, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated.

Hazard Class:

UN Number:

Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA:

CAS# 7732-18-5 is listed on the TSCA Inventory.

CAS# 88-89-1 is listed on the TSCA Inventory.

SARA Reportable Quantities (RQ):

None of the components are on this list.

CERCLA/SARA Section 313:

This material contains Picric acid (CAS# 88-89-1, 10%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA - Highly Hazardous:

None of the components are on this list.

US State

State Right to Know:

Picric acid can be found on the following state Right-to-Know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.

California Regulations:



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European/International Regulations

Canadian DSL/NDL:

CAS# 7732-18-5 is listed on Canada's DSL List.

CAS# 88-89-1 is listed on Canada's DSL List.

Canada Ingredient Disclosure List:

CAS# 7732-18-5 is not listed on Canada's Ingredient Disclosure List.

CAS# 88-89-1 is listed on Canada's Ingredient Disclosure List.

Section 16 - Other Information

MSDS Creation Date: December 21, 1999

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