



Picric Acid, Saturated

Safety Data Sheet

SECTION 1: Identification

1.1. Product identifier

Product form : Mixtures
 Product name : Picric Acid Saturated
 Product code : 4.0080
 Product group : Blend

1.2. Recommended use and restrictions on use

Recommended use : Laboratory chemicals
 Restrictions on use : Not for food, drug or household use

1.3. Supplier

Supplier
 NEUTRON PHARMACHEMICAL CO
 11, 3th Floor, Borjsaz Building, Azadi Ave,
 Tehran, Iran.
 T-021-66906732-3 F-021-66581408
www.neutronco.com info@neutronco.com

1.4. Emergency telephone number

Emergency number : 125

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Not classified

2.2. GHS Label elements, including precautionary statements

Not classified as a hazardous chemical.

2.3. Other hazards

Other hazards not contributing to the classification : None.

2.4. Unknown acute toxicity (GHS CA)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Chemical name / Synonyms	Product identifier	%	Classification (GHS CA)
Water		(CAS-No.) 7732-18-5	98.7	Not classified
Picric Acid, Wetted	1,3,5-trinitrophenol, wetted with conc water>30% / 2,4,6-trinitrophenol, wetted with conc water>30% / 2-hydroxy-1,3,5-trinitrobenzene, wetted with conc water>30% / carbazotic acid, wetted with conc water>30% / carbonitric acid, wetted with conc water>30% / nitrocanthnic acid, wetted with conc water>30% / nitrophenesic acid, wetted with conc water>30% / nitroxanthnic acid, wetted with conc water>30% / phenol, 2,4,6-trinitro- / phenoltrinitrate, wetted with conc water>30% / picric acid, wetted with conc water>30% / picrintric acid, wetted with conc water>30% / picronitric acid, wetted with conc water>30% / trinitrocarbolic acid, wetted with conc water>30%	(CAS-No.) 88-89-1	1.3	Flam. Sol. 1, H228 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331

Full text of hazard classes and H-statements : see section 16

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SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.

4.3. Immediate medical attention and special treatment, if necessary

Treatment	: Treat symptomatically.
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
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5.2. Unsuitable extinguishing media

Unsuitable extinguishing media	: Do not use a heavy water stream.
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5.3. Specific hazards arising from the hazardous product

Fire hazard	: No fire hazard.
Explosion hazard	: Explosive when dry.
Reactivity	: No data available. Explosive decomposition on exposure to temperature rise.

5.4. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Precautionary measures fire	: Eliminate all ignition sources if safe to do so. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions, Protective Equipment and Emergency Procedures	: Chemical goggles or safety glasses. Protective gloves. Protective clothing.
Prevention Measures for Secondary Accidents	: Explosive when dry.

6.2. Methods and materials for containment and cleaning up

For containment	: Take up liquid spill into inert absorbent material. Keep wet with water.
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Local and general ventilation	: Ensure adequate ventilation, especially in confined areas.
Incompatible substances or mixtures	: Reacts violently with (strong) oxidizers.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.
Additional hazards when processed	: May explode on heating. Explosive when dry.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Direct sunlight, Heat sources, incompatible materials. Keep container closed when not in use.
Incompatible products	: Strong reducing agents. Strong acids. Strong oxidizers. metals.

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Incompatible materials : Sources of ignition. Direct sunlight.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Picric Acid, Wetted (88-89-1)		
USA - OSHA	OSHA PEL TWA [1]	0.1 mg/m ³
Canada (Quebec)	VEMP (mg/m ³)	0.1 mg/m ³
Alberta	OEL TWA (mg/m ³)	0.1 mg/m ³
British Columbia	OEL TWA (mg/m ³)	0.1 mg/m ³
Manitoba	OEL TWA (mg/m ³)	0.1 mg/m ³
New Brunswick	OEL TWA (mg/m ³)	0.1 mg/m ³
Newfoundland & Labrador	OEL TWA (mg/m ³)	0.1 mg/m ³
Nova Scotia	OEL TWA (mg/m ³)	0.1 mg/m ³
Nunavut	OEL TWA (mg/m ³)	0.1 mg/m ³
Northwest Territories	OEL TWA (mg/m ³)	0.1 mg/m ³
Ontario	OEL TWA (mg/m ³)	0.1 fibers/cm ³
Prince Edward Island	OEL TWA (mg/m ³)	0.1 mg/m ³
Saskatchewan	OEL TWA (mg/m ³)	0.1 mg/m ³
Yukon	OEL TWA (mg/m ³)	0.1 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure. Provide adequate general and local exhaust ventilation.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Safety glasses. Gloves.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Respiratory protection:

Respiratory protection not required in normal conditions

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Yellow liquid.
Colour	: Yellow
Odour	: Odourless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available

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Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Relative density	: No data available
Density	: 1 g/ml
Solubility	: Soluble in water. Soluble in ethanol. Soluble in methanol.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Explosive when dry.
Oxidising properties	: None.
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	: No data available.
Chemical stability	: Explosive when dry.
Possibility of hazardous reactions	: Reacts with (strong) oxidizers.
Conditions to avoid	: Direct sunlight. Extremely high or low temperatures.
Incompatible materials	: Strong reducing agents. Strong bases. Strong oxidizers. metals.
Hazardous decomposition products	: Nitrogen oxides. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Picric Acid, Saturated

LD50 oral rat	> 60000 mg/kg
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Picric Acid, Wetted (88-89-1)

LD50 oral rat	200 mg/kg
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Water (7732-18-5)

LD50 oral rat	≥ 90000 mg/kg
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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Reproductive toxicity	: Not classified
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STOT-single exposure	: Not classified
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STOT-repeated exposure	: Not classified
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Aspiration hazard	: Not classified
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Likely routes of exposure	: Skin and eyes contact.
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Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
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Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

Picric Acid, Wetted (88-89-1)

LC50 fish 1	170 mg/l (96 h, <i>Lepomis macrochirus</i> , Pure substance)
LC50 other aquatic organisms 1	109.6 mg/l (96 h, <i>Oncorhynchus mykiss</i>)
EC50 Daphnia 1	112 mg/l (<i>Daphnia magna</i> , Pure substance)
EC50 other aquatic organisms 1	55 mg/l (48 h, <i>Daphnia</i>)
Log Pow	2.03

12.2. Persistence and degradability

Picric Acid, Saturated

Persistence and degradability	Not established.
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Picric Acid, Wetted (88-89-1)

Persistence and degradability	Non degradable in the soil. Not readily biodegradable in water.
Chemical oxygen demand (COD)	0.92 g O ₂ /g substance
ThOD	0.98 g O ₂ /g substance

Water (7732-18-5)

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

Picric Acid, Saturated

Bioaccumulative potential	Not established.
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Picric Acid, Wetted (88-89-1)

Bioaccumulative potential	Low potential for bioaccumulation (Log K _{ow} < 4).
Log Pow	2.03

Water (7732-18-5)

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

Picric Acid, Wetted (88-89-1)

Log Pow	2.03
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12.5. Other adverse effects

Ozone : Not classified

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. Basic shipping description

In accordance with TDG

Transportation of Dangerous Goods

Not regulated for transport

14.2. Transport information/DOT

Department of Transport

Not regulated for transport

14.3. Air and sea transport

IMDG

Not regulated for transport

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IATA

Not regulated for transport

SECTION 15: Regulatory information

15.1. National regulations

No additional information available

Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

Picric Acid, Wetted (88-89-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
Water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: Other information

Issue date : 12-23-2020

Other information : None.

Full text of H-statements:

H228	Flammable solid.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.