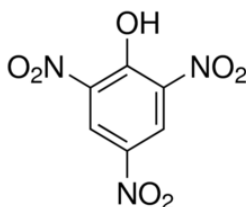


## MATERIAL SAFETY DATA SHEET (MSDS)

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Substance  
 :  
 EC index no : 609-009-00-X  
 EC no : 201-865-9  
 CAS No : 88-89-1  
 Product code : 05280  
 Chemical structure :



Synonyms : 2,4,6-Trinitrophenol

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

##### 1.2.2. Uses advised against

No additional information available


#### 1.3. Details of the supplier of the safety data sheet

SPAN LAB  
 UNIT NO. 14, SKY INDUSTRIAL ESTATE, WALIV, VASAI (E)  
 401208 Mumbai - INDIA  
 PH: +91 9820509929  
[info@spanlab.in](mailto:info@spanlab.in) [www.spanlab.in](http://www.spanlab.in)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

 H228  
 Category 2  
 Acute toxicity (oral), H301  
 Category 3  
 Acute toxicity (dermal), H311  
 Category 3  
 Acute toxicity (inhalation:dust,mist) H332

# PICRIC ACID EXTRA PURE

## Safety Data Sheet

Category 4

Full text of classification categories and H statements : see section 16

### Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11

T; R23/24/25

R4

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS02

GHS06

Signal word (CLP) : Danger

Hazard statements (CLP) : H228 - Flammable solid  
H301+H311 - Toxic if swallowed or in contact with skin  
H332 - Harmful if inhaled

Precautionary statements (CLP) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

## 2.3. Other hazards

No additional information available

## SECTION 3: Composition/information on ingredients

### 3.1. Substance

Name : PICRIC ACID EXTRA PURE

CAS No : 88-89-1

EC no : 201-865-9

EC index no : 609-009-00-X

Full text of R- and H-phrases: see section 16

# PICRIC ACID EXTRA PURE

## Safety Data Sheet

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Specific measures (see ... on this label). Wash contaminated clothing before reuse.
- First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician. Specific treatment (see ... on this label).

### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after skin contact : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin.
- Symptoms/injuries after ingestion : Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>).
- Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

- Explosion hazard : May form flammable/explosive vapour-air mixture. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries. Forms very sensitive explosive metallic compounds.

### 5.3. Advice for firefighters

- Firefighting instructions : DO NOT fight fire when fire reaches explosives. Evacuate area.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Remove ignition sources. No naked lights. No smoking. Use special care to avoid static electric charges.

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required.
- Emergency procedures : Stop release.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Clear up rapidly by scoop or vacuum.
- Other information : Finely divided metals.

# PICRIC ACID EXTRA PURE

## Safety Data Sheet

### 6.4. Reference to other sections

No additional information available

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Hazardous waste due to potential risk of explosion.  
Precautions for safe handling : Keep away from sources of ignition - No smoking. No naked lights. No smoking.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.  
Storage conditions : Keep in fireproof place. Store in original container. Keep container tightly closed. Store in a dry place. Protect from moisture.  
Incompatible materials : Heat sources.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection : protective gloves  
Eye protection : Chemical goggles or safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : Wear respiratory protection

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Colour : Yellow Crystals.  
Odour : odourless.  
Odour threshold : No data available  
pH : No data available  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : 121 - 123  
Freezing point : No data available  
Boiling point : No data available  
Flash point : 150 °C

# PICRIC ACID EXTRA PURE

## Safety Data Sheet

Auto-ignition temperature	: 300 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 7.9
Relative density	: No data available
Density	: 1.763 g/cm <sup>3</sup>
Solubility	: Water: Soluble in water
Log Pow	: 1.33
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Forms very sensitive explosive metallic compounds.
Oxidising properties	: No data available
Explosive limits	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Forms very sensitive explosive metallic compounds.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Finely divided metals. Heat. Sparks. Open flame. Direct sunlight. Overheating.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

No additional information available

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust/mist: Harmful if inhaled.

Skin corrosion/irritation : Not classified

Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Not classified

# PICRIC ACID EXTRA PURE

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Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Not classified  
Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms : Toxic if swallowed. Toxic in contact with skin.

### SECTION 12: Ecological information

#### 12.1. Toxicity

No additional information available

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

##### PICRIC ACID EXTRA PURE (88-89-1)

Log Pow	1.33
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#### 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

#### 12.6. Other adverse effects

No additional information available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to ...  
Additional information : Hazardous waste due to potential risk of explosion.  
Ecology - waste materials : Hazardous waste due to toxicity.

### SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

# PICRIC ACID EXTRA PURE

## Safety Data Sheet

### 14.1. UN number

UN-No. (ADR)	: 1344
UN-No. (IMDG)	: 1344
UN-No.(IATA)	: 1344
UN-No.(ADN)	: 1344
UN-No. (RID)	: 1344

### 14.2. UN proper shipping name

Proper Shipping Name (ADR)	: TRINITROPHENOL (PICRIC ACID), WETTED
Proper Shipping Name (IMDG)	: TRINITROPHENOL (PICRIC ACID), WETTED
Proper Shipping Name (IATA)	: TRINITROPHENOL, WETTED
Proper Shipping Name (ADN)	: TRINITROPHENOL (PICRIC ACID), WETTED
Proper Shipping Name (RID)	: TRINITROPHENOL (PICRIC ACID), WETTED
Transport document description (ADR)	: UN 1344 TRINITROPHENOL (PICRIC ACID), WETTED, 4.1, I, (B)
Transport document description (IMDG)	: UN 1344 TRINITROPHENOL (PICRIC ACID), WETTED, 4.1, I
Transport document description (IATA)	: UN 1344 TRINITROPHENOL, WETTED, 4.1, I
Transport document description (ADN)	: UN 1344 TRINITROPHENOL (PICRIC ACID), WETTED, 4.1, I
Transport document description (RID)	: UN 1344 TRINITROPHENOL (PICRIC ACID), WETTED, 4.1, I

### 14.3. Transport hazard class(es)

#### ADR

Transport hazard class(es) (ADR)	: 4.1
Danger labels (ADR)	: 4.1



#### IMDG

Transport hazard class(es) (IMDG)	: 4.1
Danger labels (IMDG)	: 4.1



#### IATA

Transport hazard class(es) (IATA)	: 4.1
Hazard labels (IATA)	: 4.1



#### ADN

Transport hazard class(es) (ADN)	: 4.1
Danger labels (ADN)	: 4.1

# PICRIC ACID EXTRA PURE

## Safety Data Sheet



### RID

Transport hazard class(es) (RID) : 4.1

Danger labels (RID) : 4.1



### 14.4. Packing group

Packing group (ADR) : I

Packing group (IMDG) : I

Packing group (IATA) : I

Packing group (ADN) : I

Packing group (RID) : I

### 14.5. Environmental hazards

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

### 14.6. Special precautions for user

#### - Overland transport

Classification code (ADR) : D

Limited quantities (ADR) : 0

Excepted quantities (ADR) : E0

Packing instructions (ADR) : P406

Special packing provisions (ADR) : PP26

Mixed packing provisions (ADR) : MP2

Transport category (ADR) : 1

Special provisions for carriage - Operation (ADR) : S14

Tunnel restriction code (ADR) : B

EAC code : 1W

#### - Transport by sea

Special provision (IMDG) : 28

Limited quantities (IMDG) : 0

Excepted quantities (IMDG) : E0

Packing instructions (IMDG) : P406

Packing provisions (IMDG) : PP26, PP31

EmS-No. (Fire) : F-B

EmS-No. (Spillage) : S-J

Stowage category (IMDG) : E

Segregation (IMDG) : SG7, SG30

#### - Air transport

PCA Excepted quantities (IATA) : E0



# PICRIC ACID EXTRA PURE

## Safety Data Sheet

PCA Limited quantities (IATA)	: Forbidden
PCA limited quantity max net quantity (IATA)	: Forbidden
PCA packing instructions (IATA)	: 451
PCA max net quantity (IATA)	: 1kg
CAO packing instructions (IATA)	: 451
CAO max net quantity (IATA)	: 15kg
Special provision (IATA)	: A40
ERG code (IATA)	: 3E

### - Inland waterway transport

Classification code (ADN)	: D
Limited quantities (ADN)	: 0
Excepted quantities (ADN)	: E0
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 1

### - Rail transport

Classification code (RID)	: D
Limited quantities (RID)	: 0
Excepted quantities (RID)	: E0
Packing instructions (RID)	: P406
Special packing provisions (RID)	: PP26
Mixed packing provisions (RID)	: MP2
Transport category (RID)	: 1
Special provisions for carriage – Packages (RID)	: W1
Hazard identification number (RID)	: 40

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

No REACH Annex XVII restrictions

PICRIC ACID EXTRA PURE is not on the REACH Candidate List

PICRIC ACID EXTRA PURE is not on the REACH Annex XIV List

#### 15.1.2. National regulations

##### Germany

AwSV/VwVwS Annex reference : Water hazard class (WGK) 2, hazardous to water (Classification according to VwVwS, Annex 2; WGK No 175)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

# PICRIC ACID EXTRA PURE

## Safety Data Sheet

### Denmark

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No additional information available

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### SECTION 16: Other information

Full text of R-, H- and EUH-phrases:

Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Flam. Sol. 2	Flammable solids, Category 2
H228	Flammable solid
H301	Toxic if swallowed
H311	Toxic in contact with skin
H332	Harmful if inhaled
R11	Highly flammable
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R4	Forms very sensitive explosive metallic compounds
c	Highly flammable
T	Toxic

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*