

|                                   |                                                                                    |
|-----------------------------------|------------------------------------------------------------------------------------|
| <b>Material Safety Data Sheet</b> |  |
| <b>PICRIC ACID AR</b>             | <b>VERSION : 03</b><br><b>DATE OF ISSUE : 31-01-2022</b><br><b>SUPERSEDES : 02</b> |
| <b>Product Code : 24748</b>       | <b>Page 1 of 7</b>                                                                 |

## **1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

**Trade name** : PICRIC ACID AR  
**Product code** : 24748  
**Identification of the product** : 2,4,6-trinitrophenol; picric acid  
**CAS No** : 88-89-1

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

**Identified uses** : Laboratory chemicals, Manufacture of substances

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

**Company identification** : MOLYCHEM  
 Office: 78/80 Babu Genu Road, Souri Bldg., 2nd Floor,  
 Mumbai – 400 002 (INDIA)  
 Tel:+91 22 4066 8111, 2205 7772 . Fax: + 91 22 2203 4442  
 Email : [info@molychem.net](mailto:info@molychem.net)  
 Works: Plot No. B/9, Badlapur M.I.D.C.,OPP.Shobhavat Textile  
 Co.,Kulgaon, Badlapur (E), Dist.-Thane-421 503.

### **1.4. Emergency telephone number**

**Emergency number** : +91 22 4066 8111 (10:00am - 6:00 pm)

## **2. Hazards identification -DSD**

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

**Classification EC 67/548 or EC 1999/45**

**Classification** : F; R11  
 T; R23/24/25

### **Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

**Health hazards** : Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331  
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311

### **2.2. Label elements**

**Labelling EC 67/548 or EC 1999/45**

**Symbol(s)** : F : Highly flammable  
 T : Toxic



**Signal word (CLP)** : Danger

**Hazard statements (CLP)** : H228 - Flammable solid

H301+H311 - Toxic if swallowed or in contact with skin

**Precautionary statements (CLP)** : P210 - Keep away from heat/sparks/open flames/hot surfaces. –

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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

## 3. Composition/information on ingredients

Name : PICRIC ACID AR

CAS No : 88-89-1

EC no : 201-865-9

## 4. First aid measures

### 4.1. Description of first aid measures

**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

**Skin contact** : Immediately call a POISON CENTER or doctor/physician. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.  
Wash contaminated clothing before reuse.

**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.

**Ingestion** : Rinse mouth. Obtain emergency medical attention. Immediately call a POISON CENTER or doctor/physician.

### 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.

## 5. Fire-fighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** : dry chemical powder, alcohol-resistant foam, carbon dioxide

**Unsuitable extinguishing media** : Do not use a heavy water stream.

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

Fire hazard : Flammable solid.

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 fire-fighters

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.

## 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.

### 6.2. 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.

### 6.4. Reference to other sections

No additional information available

## 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.

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## **8. Exposure controls/personal protection**

### **8.1. 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

### **8.2. Control parameters**

No additional information available.

## **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  
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 data available

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## **10. Stability and reactivity**

### **10.1. Reactivity**

Reacts violently with water.

### **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

## **11. Toxicological information**

### **11.1. Information on toxicological effects**

|                                                        |                                                                 |
|--------------------------------------------------------|-----------------------------------------------------------------|
| Acute toxicity                                         | : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. |
| 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                                                |
| Specific target organ toxicity<br>(single exposure)    | : Not classified                                                |
| Specific target organ toxicity<br>(repeated exposure)  | : Not classified                                                |
| Aspiration hazard                                      | : Not classified                                                |
| Potential adverse human health effects<br>and symptoms | : Toxic if swallowed. Toxic in contact with skin.               |

## **12. Ecological information**

### **12.1. Toxicity**

No additional information available

### **12.2. Persistence - degradability**

No additional information available

### **12.3. Bioaccumulative potential**

No additional information available

### **12.4. Mobility in soil**

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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.

## 13. Disposal considerations

|                                            |                                                       |
|--------------------------------------------|-------------------------------------------------------|
| 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.                    |

## 14. Transport information

### 14.1. UN number

ADR/RID: 1344

IMDG: 1344

IATA: 1344

### 14.2. UN proper shipping name

ADR/RID :

PICRIC ACID

IMDG:

PICRIC ACID

IATA:

PICRIC ACID

### 14.3. Transport hazard class(es)

ADR/RID: 4.1

IMDG: 4.1

IATA: 4.1

### 14.4 Packaging group

ADR/RID: I

IMDG: I

IATA: I

### 14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### 14.6 Special precautions for user

#### Further information

Not classified as dangerous in the meaning of transport regulations.

## 15. Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

## 16. Other information

### Abbreviations and acronyms :

PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

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**Sources of key data used :** REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

**Further information :** None.

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008  
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**End of document**

**Prepared by: MOLYCHEM (INDIA)**

**For questions contact: MOLYCHEM**

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