

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**3-NITROPTHALIC ACID (FOR SYNTHESIS)**

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

**1.1. Product identifier**

Trade name : 3-NITROPTHALIC ACID (FOR SYNTHESIS)

Product code : N0149100100

Identification of the product : 3-NITROPTHALIC ACID  
CAS No: 603-11-2

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

Use : Industrial. For professional use only.

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

**Company identification**

SUVCHEM  
Chaitanya Tower, 2nd Floor, Office # 206,  
Siddharth Nagar, S.V. Road,  
Goregaon (West), Mumbai - 400062,  
Maharashtra, India.  
Contact: +91 22 28725393 / 94 / 95  
Email ID: info@suvchem.com/care@suvchem.com

**1.4. Emergency telephone number**

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [ Office hours ]

**2. Hazards identification -DSD**

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

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

Classification : Xi; R36/37/38-41

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

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation - Category 3 - Warning (CLP : STOT SE 3) H335  
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315  
Serious eye damage - Category 1 - Danger (CLP : Eye Dam. 1) H318  
Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

**2.2. Label elements**

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

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**2. Hazards identification -DSD (continued)**

Symbol(s)



Symbol(s)

: Xi : Irritant

R Phrase(s)

: R36/37/38 : Irritating to eyes, respiratory system and skin.  
R41 : Risk of serious damage to eyes.

S Phrase(s)

: S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/39 : Wear suitable protective clothing and eye/face protection.
**Labelling Regulation EC 1272/2008 (CLP)**

Hazard pictograms



Signal words

: Danger

Hazard statements

: H314 : Causes severe skin burns and eye damage.  
H319 : Causes serious eye irritation.  
H315 : Causes skin irritation.  
H335 : May cause respiratory irritation.

Precautionary statements

• Prevention

: P280: Wear protective gloves, protective clothing, eye protection, face protection.  
P271: Use only outdoors or in a well-ventilated area.  
P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
P264: Wash thoroughly after handling.

• Response

: P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
P332+P313: If skin irritation occurs : Get medical advice.  
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.  
P363: Wash contaminated clothing before reuse.

• Storage

: P403+P233: Store in well-ventilated place. Keep container tightly closed.  
P405: Store locked up.

• Disposal considerations

: P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

**2.3. Other hazards**

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**2. Hazards identification -DSD (continued)**

**Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

**3. Composition/information on ingredients**

**Substance / Preparation** : 3-NITROPHTHALIC ACID

Substance.

Contains no other components or impurities which will influence the classification of the product.

**4. First aid measures**
**4.1. Description of first aid measures**

**Inhalation** : Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

**Skin contact** : Get medical advice. Specific treatment (see on this label). If skin irritation occurs : Wash with plenty of soap and water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor. Remove/Take off immediately all contaminated clothing.

**Eye contact** : Immediately call a POISON CENTER or doctor. Rinse cautiously with water for several minutes. Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion** : Obtain emergency medical attention. Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.

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

**Symptoms relating to use** : Causes severe skin burns and eye damage.  
 Causes serious eye damage.  
 Causes serious eye irritation.  
 Causes skin irritation. May cause respiratory irritation.

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

**General information** : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**5. Fire-fighting measures**
**5.1. Extinguishing media**

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#### 5. Fire-fighting measures (continued)

- Suitable extinguishing media** : Foam. Dry powder. Carbon dioxide. Water spray. Sand.  
**Unsuitable extinguishing media** : Do not use a heavy water stream.  
**Surrounding fires** : Use water spray or fog for cooling exposed containers.

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

- Hazardous combustion products** : Under fire conditions, hazardous fumes will be present.  
 Thermal decomposition generates : Corrosive vapours.

#### 5.3. Advice for fire-fighters

- Protection against fire** : Do not enter fire area without proper protective equipment, including respiratory protection.  
**Special procedures** : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

#### 6. Accidental release measures

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

- For emergency responders** : Equip cleanup crew with proper protection.  
 Ventilate area.  
**For non-emergency personnel** : Evacuate unnecessary personnel.

#### 6.2. Environmental precautions

- Environmental precautions** : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

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

- Clean up methods** : On land, sweep or shovel into suitable containers. Minimize generation of dust.  
 Store away from other materials.

#### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

#### 7.1. Precautions for safe handling

- Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse.  
 Wash thoroughly after handling. Wash thoroughly after handling. Wash thoroughly

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**7. Handling and storage (continued)**

	after handling. Use only outdoors or in a well-ventilated area.
<b>Technical protective measures</b>	: Provide good ventilation in process area to prevent formation of vapour.
<b>Special precautions</b>	: Avoid breathing dust, fume, gas, mist, vapours, spray.

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

<b>Storage</b>	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
<b>Storage regulation</b>	: Comply with applicable regulations.
<b>Storage - away from</b>	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

**7.3. Specific end use(s)**

<b>Specific end use(s)</b>	: None.
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**8. Exposure controls/personal protection**
**8.1. Exposure controls**

<b>Personal protection</b>	: Avoid all unnecessary exposure.
• <b>Respiratory protection</b>	: Wear approved mask.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Skin protection</b>	: Wear suitable protective clothing.
• <b>Eye protection</b>	: Chemical goggles or face shield.
• <b>Others</b>	: When using, do not eat, drink or smoke.

**8.2. Control parameters**

<b>Occupational Exposure Limits</b>	: No data available.
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**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

<b>Physical state at 20 °C</b>	: Solid.
<b>Colour</b>	: Pale yellow crystalline
<b>Odour</b>	: N/A
<b>Odour threshold</b>	: No data available.
<b>pH value</b>	: Not applicable.
<b>Melting point [°C]</b>	: 210 °C
<b>Decomposition point [°C]</b>	: 216 °C

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**9. Physical and chemical properties (continued)**

Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: N/A
Boiling point [°C]	: N/A
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: 7,3
Density [g/cm <sup>3</sup> ]	: N/A
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Insoluble in water
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

**9.2. Other information**

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: N/A
Oxidising properties	: No data available.

**10. Stability and reactivity**
**10.1. Reactivity**

Reactivity	: Not established.
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**10.2. Chemical stability**

Chemical stability	: Stable under recommended storage conditions.
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**10.3. Possibility of hazardous reactions**

Hazardous reactions	: Not established.
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**10.4. Conditions to avoid**

**MATERIAL SAFETY DATA SHEET (MSDS)**
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**10. Stability and reactivity (continued)**

**Conditions to avoid** : Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

**Materials to avoid** : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** : Fumes. Carbon monoxide. Carbon dioxide.  
 Thermal decomposition generates : Corrosive vapours.

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- **Inhalation** : Based on available data, the classification criteria are not met.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

**Corrosion**

: Causes severe skin burns and eye damage.  
 Causes serious eye damage.

**Irritation**

: Causes serious eye irritation.  
 Causes skin irritation.  
 May cause respiratory irritation.

**Sensitization**

: Based on available data, the classification criteria are not met.

**Mutagenicity**

: Based on available data, the classification criteria are not met.

**Carcinogenicity**

: Based on available data, the classification criteria are not met.

**Toxic for reproduction**

: Based on available data, the classification criteria are not met.

**STOT-single exposure**

: Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

: Based on available data, the classification criteria are not met.

**Aspiration hazard**

: Based on available data, the classification criteria are not met.

**12. Ecological information**
**12.1. Toxicity**

**Toxicity information** : Not established.

**12.2. Persistence - degradability**

**Persistence - degradability** : Biodegradable.

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#### 12. Ecological information (continued)

##### 12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

##### 12.4. Mobility in soil

Mobility in soil : Not established.

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

**Results of PBT and vPvB assessment** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

##### 12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

**General** : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations.  
 Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 14. Transport information

##### 14.1. Land transport (ADR-RID)

General information : Not regulated.

##### 14.2. Sea transport (IMDG), [English only]

General information : Not regulated.

##### 14.3. Air transport (ICAO-IATA), [English only]

General information : Not regulated.



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

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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  - **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.
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