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## MATERIAL SAFETY DATA SHEET (MSDS)

### 4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)

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

##### 1.1. Product identifier

Trade name : 4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)  
 Product code : N0147400500  
 Identification of the product : 4-NITROBENZOIC ACID 99%  
 CAS No: 62-23-7

##### 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 : Xn; R22  
 C; R34

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

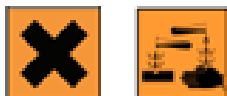
Health hazards : Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314  
 Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302

##### 2.2. Label elements

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

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**4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)**
**2. Hazards identification -DSD (continued)**

Symbol(s)



Symbol(s)

 : Xn : Harmful  
 : C : Corrosive

R Phrase(s)

 : R22 : Harmful if swallowed.  
 : R34 : Causes burns.

S Phrase(s)

 : S24/25 : Avoid contact with skin and eyes.  
 : S36 : Wear suitable protective clothing.

**Labelling Regulation EC 1272/2008 (CLP)**

Hazard pictograms



Signal words

: Danger

Hazard statements

 : H314 : Causes severe skin burns and eye damage.  
 : H302 : Harmful if swallowed.

Precautionary statements

**• Prevention**

 : P280: Wear protective gloves, protective clothing, eye protection, face protection.  
 : P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
 : P264: Wash thoroughly after handling.  
 : P270: Do not eat, drink or smoke when using this product.

**• Response**

 : P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.  
 : 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**

: 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**

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.

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**4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)**
**3. Composition/information on ingredients**

**Substance / Preparation** : 4-NITROBENZOIC ACID 99%

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** : Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor.

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

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

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

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

**Symptoms relating to use** : Causes severe skin burns and eye damage.  
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**

**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**

**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**

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)**
**5. Fire-fighting measures (continued)**

- 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 eat, drink or smoke when using this product. Do not breathe dust, fume, gas, mist, vapours, spray. Wash contaminated clothing before reuse. Wash thoroughly after handling.
- Technical protective measures** : Provide good ventilation in process area to prevent formation of vapour.

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

- Storage** : Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
- Storage regulation** : Comply with applicable regulations.
- Storage - away from** : Strong bases. Strong acids. Sources of ignition. Direct sunlight.

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

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)**
**7. Handling and storage (continued)**

Specific end use(s) : None.

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

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

**8.2. Control parameters**

Occupational Exposure Limits : No data available.

**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

|                                |                      |
|--------------------------------|----------------------|
| Physical state at 20 °C        | : Solid.             |
| Colour                         | : Yellow crystalline |
| Odour                          | : N/A                |
| Odour threshold                | : No data available. |
| pH value                       | : Not applicable.    |
| Melting point [°C]             | : 237 - 240 °C       |
| Decomposition point [°C]       | : N/A                |
| Critical temperature [°C]      | : N/A                |
| Auto-ignition temperature [°C] | : N/A                |
| Flammability (solid, gas)      | : N/A                |
| Flash point [°C]               | : 237 °C             |
| 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                 | : N/A                |

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)**
**9. Physical and chemical properties (continued)**

|  |                      |
|--|----------------------|
| Density [g/cm <sup>3</sup> ]           | : 1,494              |
| Relative density, gas (air=1)          | : N/A                |
| Relative density, liquid (water=1)     | : N/A                |
| Solubility in water [% weight]         | : Soluble 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. |
|------------|--------------------|

**10.2. Chemical stability**

|                    |  |
|--------------------|--|
| Chemical stability | : Stable under recommended storage conditions. |
|--------------------|--|

**10.3. Possibility of hazardous reactions**

|                     |                    |
|---------------------|--------------------|
| Hazardous reactions | : Not established. |
|---------------------|--------------------|

**10.4. Conditions to avoid**

|                     |  |
|---------------------|--|
| 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.<br>Thermal decomposition generates : Corrosive vapours. |
|----------------------------------|---|

**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)**
**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 : Harmful if swallowed.

**Corrosion**

: Causes severe skin burns and eye damage.

**Irritation**

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

**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.

**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.



**MATERIAL SAFETY DATA SHEET (MSDS)**
**4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)**
**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.

**15. Regulatory information**
**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.

**REACH Restrictions - Annex XVII** : The components of this product are not subject to restrictions.

**REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

**15.2. Chemical Safety Assessment**

**Chemical Safety Assessment** : It has not been carried out.

**16. Other information**

**Revision** : Revision - See : \*

**Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.  
 vPvB: very persistent and very bioaccumulative

**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



**MATERIAL SAFETY DATA SHEET (MSDS)**

**4-NITRO BENZOIC ACID (FOR SYNTHESIS) (P-NITROBENZOIC ACID)**

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.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **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.

**End of document**