

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL HYDRAZINE AR (FOR SYNTHESIS)

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

##### 1.1. Product identifier

Trade name : PHENYL HYDRAZINE AR (FOR SYNTHESIS)

Product code : SS0120800500

Identification of the product : Phenylhydrazine  
CAS No: 100-63-0  
EC No :202-873-5  
Annex No :612-023-00-9

##### 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 : Carc. Cat. 2; R45  
Muta. Cat. 3; R68  
T; R23/24/25-R48/23/24/25  
Xi; R36/38  
R43  
N; R50

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

Health hazards : Germ cell mutagenicity - Category 2 - Warning (CLP : Muta. 2) H341  
Carcinogenicity - Category 1B - Danger (CLP : Carc. 1B) H350  
Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -  
Category 3 - Warning (CLP : STOT SE 3) H335  
Specific Target Organ Toxicity - Repeated exposure - Category 1 - Danger (CLP :  
STOT RE 1) H372

### MATERIAL SAFETY DATA SHEET (MSDS)

## PHENYL HYDRAZINE AR (FOR SYNTHESIS)

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

	Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311 Skin sensitisation - Category 1 - Warning (CLP : Skin Sens. 1) H317 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301 Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315 Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331 Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319
<b>Environmental hazards</b>	: Hazardous to the aquatic environment - Acute hazard - Category 1 - Warning (CLP : Aquatic Acute 1) H400

#### 2.2. Label elements

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

##### Symbol(s)



##### Symbol(s)

: T : Toxic  
N : Dangerous for the environment

##### R Phrase(s)

: R45 : May cause cancer.  
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.  
R36/38 : Irritating to eyes and skin.  
R43 : May cause sensitization by skin contact.  
R48/23/24/25 : Toxic : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.  
R68 : Possible risks of irreversible effects.  
R50 : Very toxic to aquatic organisms.

##### S Phrase(s)

: S53 : Avoid exposure - obtain special instructions before use.  
S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).  
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

##### Contains

: Phenylhydrazine

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

##### Hazard pictograms



##### Signal words

: Danger

##### Hazard statements

: H301 : Toxic if swallowed.  
H311 : Toxic in contact with skin.  
H331 : Toxic if inhaled.  
H350 : May cause cancer.  
H341 : Suspected of causing genetic defects.  
H319 : Causes serious eye irritation.

## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL HYDRAZINE AR (FOR SYNTHESIS)

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

H315 : Causes skin irritation.  
 H317 : May cause an allergic skin reaction.  
 H335 : May cause respiratory irritation.  
 H372 : Causes damage to organs through prolonged or repeated exposure.  
 H400 : Very toxic to aquatic life.

#### Precautionary statements

- **General** : P201: Obtain special instructions before use.
- **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.  
 P273: Avoid release to the environment.  
 P264: Wash thoroughly after handling.  
 P270: Do not eat, drink or smoke when using this product.  
 P272: Contaminated work clothing should not be allowed out of the workplace.
- **Response** : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.  
 P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
 P308+P313: If exposed or concerned : get medical advice.  
 P391: Collect spillage.  
 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.  
 P333+P313: If skin irritation or rash occurs : Get medical advice.  
 P363: Wash contaminated clothing before reuse.  
 P314: Get medical advice if you feel unwell.  
 P361: Remove immediately all contaminated clothing.
- **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.  
 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.
- Special labelling** : Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)
- Contains** : Phenylhydrazine

#### 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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### MATERIAL SAFETY DATA SHEET (MSDS)

## PHENYL HYDRAZINE AR (FOR SYNTHESIS)

#### 3. Composition/information on ingredients

Substance / Preparation : Phenylhydrazine

EC No :202-873-5  
Annex No :612-023-00-9  
Substance.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Phenylhydrazine	100 %	100-63-0	202-873-5	612-023-00-9	----	Carc. Cat. 2; R45 Muta. Cat. 3; R68 T; R23/24/25-48/23/24/25 Xi; R36/38 R43 N; R50 ----- Carc. 1B _ H350 Acute Tox. 3 (skin) _ H311 Acute Tox. 3 (inhal) _ H331 Acute Tox. 3 (oral) _ H301 STOT RE 1 _ H372 Muta. 2 _ H341 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315 STOT SE 3 _ H335 Skin Sens. 1 _ H317 Aquatic Acute 1 _ H400

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. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs : Get medical advice. Wash contaminated clothing before reuse. Specific treatment (see on this label).
- Eye contact** : Get medical advice. If eye irritation persists : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
- Ingestion** : Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Do NOT induce vomiting. Rinse mouth.

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

- Symptoms relating to use** : May cause cancer.  
Suspected of causing genetic defects.  
Causes damage to organs through prolonged or repeated exposure.  
Repeated exposure to this material can result in absorption through skin causing significant health hazard.  
Causes serious eye irritation.  
Causes skin irritation.  
May cause an allergic skin reaction. May cause respiratory irritation.  
Danger of serious damage to health by prolonged exposure through inhalation.  
Swallowing a small quantity of this material will result in serious health hazard.

## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL HYDRAZINE AR (FOR SYNTHESIS)

#### 4. First aid measures (continued)

##### 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.

##### 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.  
 Avoid release to the environment.

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

**Clean up methods** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL HYDRAZINE AR (FOR SYNTHESIS)

#### 6. Accidental release measures (continued)

##### 6.4. Reference to other sections

See section 8. Exposure controls/personal protection

#### 7. Handling and storage

##### 7.1. Precautions for safe handling

<b>Handling</b>	: Avoid breathing dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Use personal protective equipment as required. Obtain special instructions before use. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
<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 - 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>	: In case of insufficient ventilation, wear suitable respiratory equipment.
• <b>Hand protection</b>	: Wear protective gloves.
• <b>Skin protection</b>	: Wear suitable protective clothing.
• <b>Eye protection</b>	: Chemical goggles or safety glasses.
• <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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## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL HYDRAZINE AR (FOR SYNTHESIS)

#### 9. Physical and chemical properties

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

Physical state at 20 °C	: Solid.
Colour	: Pale yellow
Odour	: Faint aromatic odor
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: 18 - 21 °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]	: 89 °C
Boiling point [°C]	: 238 - 241 °C
Initial boiling point [°C]	: 238°C
Final boiling point [°C]	: 241 °C
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: 1 mm Hg @ 71.80C
Vapour density	: 3,7
Density [g/cm3]	: 1,098
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Slightly soluble in
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm2/s]	: N/A

##### 9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: N/A
Explosion limits - lower [%]	: 1,10%
Oxidising properties	: No data available.

#### 10. Stability and reactivity

##### 10.1. Reactivity

## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL HYDRAZINE AR (FOR SYNTHESIS)

#### 10. Stability and reactivity (continued)

**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.

#### 11. Toxicological information

##### 11.1. Information on toxicological effects

###### Acute toxicity

- **Inhalation** : Toxic if inhaled.
- **Dermal** : Toxic in contact with skin.
- **Ingestion** : Toxic if swallowed.

###### Corrosion

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

###### Irritation

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

###### Sensitization

: May cause an allergic skin reaction.

###### Mutagenicity

: Suspected of causing genetic defects.

###### Carcinogenicity

: May cause cancer.

###### 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

: Causes damage to organs through prolonged or repeated exposure.

###### Aspiration hazard

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



## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL HYDRAZINE AR (FOR SYNTHESIS)

#### 12. Ecological information

##### 12.1. Toxicity

**Toxicity information** : Very toxic to aquatic life.

##### 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.

#### 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.

**Special precautions** : Hazardous waste due to toxicity.

#### 14. Transport information

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

**Proper shipping name** : PHENYLHYDRAZINE  
**UN N°** : 2572  
**H.I. nr** : 60

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### MATERIAL SAFETY DATA SHEET (MSDS)

## PHENYL HYDRAZINE AR (FOR SYNTHESIS)

#### 14. Transport information (continued)

ADR - Class : 6.1  
Labelling - Transport : 6.1 : Toxic substances.



ADR - Classification code : T1  
ADR - Group : II  
ADR - Packing instructions : P001  
ADR - Limited Quantity : 100 ML  
ADR - Tunnel code



: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

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

Proper shipping name : PHENYLHYDRAZINE  
UN N° : 2572  
IMO-IMDG - Class or division : 6.1 : Toxic substances.  
IMO-IMDG - Packing group : II  
IMO-IMDG - Packing instructions : P001  
IMO-IMDG - Limited quantities : 100 ml  
IMO-IMDG - Marine pollution : Yes  
EMS-Nr : F-A S-A

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

Proper shipping name : PHENYLHYDRAZINE  
UN N° : 2572  
IATA - Class or division : 6.1 : Toxic substances.  
IATA - Packing group : II  
IATA - Passenger and Cargo Aircraft : ALLOWED  
- Passenger and Cargo - Packing instruction : 654  
- Passenger and Cargo - Maximum Quantity/Packing : 5 L  
IATA - Cargo only : ALLOWED  
- Cargo only - Packing instruction : 662

## MATERIAL SAFETY DATA SHEET (MSDS)

### PHENYL HYDRAZINE AR (FOR SYNTHESIS)

#### 14. Transport information (continued)

- Cargo only - Maximum Quantity/ Packing	: 60 L
IATA - Limited Quantities	: 1 L
ERG-Nr	: 6L

#### 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	: With the exception of those listed below: The components of this product are not subject to restrictions. Annex XVII
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.
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#### 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
List of relevant R phrases (heading 3)	: R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed. R36/38 : Irritating to eyes and skin. R43 : May cause sensitization by skin contact. R45 : May cause cancer. R48/23/24/25 : Toxic : danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R50 : Very toxic to aquatic organisms. R68 : Possible risks of irreversible effects.
List of full text of H-statements in section 3	: H301 : Toxic if swallowed. H311 : Toxic in contact with skin. H315 : Causes skin irritation. H317 : May cause an allergic skin reaction. H319 : Causes serious eye irritation. H331 : Toxic if inhaled. H335 : May cause respiratory irritation. H341 : Suspected of causing genetic defects.

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**PHENYL HYDRAZINE AR (FOR SYNTHESIS)**

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**