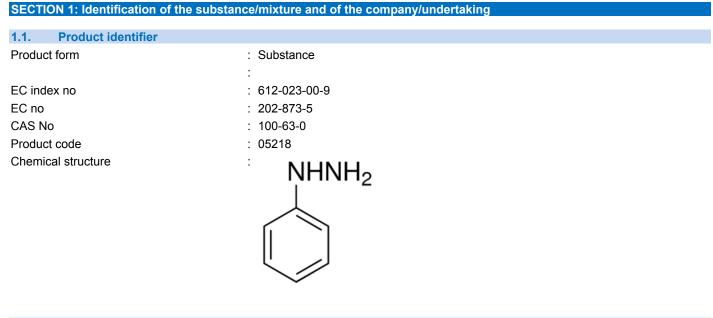


### CAS No: 100-63-0 MSDS

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



#### 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

LOBA CHEMIE PVT.LTD. 107 Wode House Road, Jehangir Villa, Colaba 400005 Mumbai - INDIA T +91 22 6663 6663 - F +91 22 6663 6699 info@lobachemie.com - www.lobachemie.com

#### 1.4. Emergency telephone number

Emergency number

Acute toxicity (oral),

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Category 3

: + 91 22 6663 6663 (9:00am - 6:00 pm)

#### **SECTION 2: Hazards identification**

2.1. Classification of	the substance or mixture
Classification according	to Regulation (EC) No. 1272/2008 [CLP]
Carcinogenicity, Category 1B	H350
Acute toxicity (dermal), Category 3	H311
Acute toxicity (inhal.), Category 3	H331

H301

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Specific target organ toxicity — Repeated	H372
exposure, Category 1	
Germ cell mutagenicity,	H341
Category 2	
Serious eye damage/eye	H319
irritation, Category 2	
Skin corrosion/irritation,	H315
Category 2	
Specific target organ	H335
toxicity — Single	
exposure, Category 3,	
Respiratory tract irritation	
Sensitisation — Skin,	H317
category 1	
Hazardous to the aquatic	H400
environment — Acute	
Hazard, Category 1	

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

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

Carc.Cat.2; R45 Muta.Cat.3; R68 T; R23/24/25 T; R48/23/24/25 Xi; R36/38 R43 N; R50 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) N Hazard pictograms (CLP)	No. 1272/2008 [CLP]
	GHS06 GHS08 GHS09
Signal word (CLP)	:-
Hazard statements (CLP)	<ul> <li>H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H335 - May cause respiratory irritation H341 - Suspected of causing genetic defects H350 - May cause cancer H372 - Causes damage to organs through prolonged or repeated exposure H400 - Very toxic to aquatic life</li> </ul>
Precautionary statements (CLP)	<ul> <li>P201 - Obtain special instructions before use</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> </ul>
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P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### 2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients		
3.1. Substance		
Name	: PHENYL HYDRAZINE FOR SYNTHESIS	
CAS No	: 100-63-0	
EC no	: 202-873-5	
EC index no	: 612-023-00-9	

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

# 3.2. Mixture Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
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. If skin irritation occurs: Get medical advice/attention. Specific treatment (see on this label). If skin irritation or rash occurs:
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 e	ffects, both acute and delayed
Symptoms/injuries	: Suspected of causing genetic defects. May cause cancer. Causes damage to organs through prolonged or repeated exposure.
Symptoms/injuries after inhalation	: May cause an allergic skin reaction. May cause respiratory irritation.
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. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
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.

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SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from th	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
SECTION 6: Accidental release measure	es en la companya de
6.1. Personal precautions, protectiv	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
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 conta	
Methods for cleaning up	: Clear up rapidly by scoop or vacuum.
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Avoid breathing dust/fume/gas/mist/vapours/spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-
Hygiene measures	ventilated area. Do not breathe dust/fume/gas/mist/vapours/spray.
Hygiene measures	<ul> <li>Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.</li> <li>Wash contaminated clothing before reuse.</li> </ul>
7.2. Conditions for safe storage, inc	cluding any incompatibilities
Storage conditions	: Keep container tightly closed. Store in original container. Store in a dry place.
	Protect from moisture.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/persona	I protection
8.1. Control parameters	
No additional information available	

No additional information available

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection Respiratory protection	: Wear suitable protective clothing : Wear respiratory protection
SECTION 9: Physical and chemical prop	
9.1. Information on basic physical an Physical state	: Solid
Colour	: Pale yellow.
Odour	: faint aromatic odor.
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 18 - 21
Freezing point	: No data available
Boiling point	: 238 - 241
Flash point	: 89 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: 1 mm Hg at 71.80C
Relative vapour density at 20 °C	: 3.7
Relative density	: No data available
Density Solubility	: 1.098 g/cm <sup>3</sup> : Water: Slightly soluble in hot water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: ≥ 0.011 vol %
9.2. Other information No additional information available	
SECTION 10: Stability and reactivity	
10.1.ReactivityNo additional information available	
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10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactio	ns
No additional information available	
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod	ucts
No additional information available	
SECTION 11: Toxicological information	
11.1. Information on toxicological effe	ects
Acute toxicity	: Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled. Oral: Toxic if swallowed.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Suspected of causing genetic defects.
Carcinogenicity	: May cause cancer.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single	: May cause respiratory irritation.
exposure)	. Way cause respiratory initiation.
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.
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	
Ecology - water	: Very toxic to aquatic life.

Salety Data Sheet	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB asses	ssment
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
Ecology - waste materials	: Hazardous waste due to toxicity.
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	TA / ADN
14.1. UN number	
UN-No. (ADR)	: 2572
UN-No. (IMDG)	: 2572
	: 2572 : 2572
UN-No.(ADN) UN-No. (RID)	: 2572
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: PHENYLHYDRAZINE
Proper Shipping Name (IMDG)	: PHENYLHYDRAZINE
Proper Shipping Name (IATA)	: PHENYLHYDRAZINE
Proper Shipping Name (ADN)	: PHENYLHYDRAZINE
Proper Shipping Name (RID)	: PHENYLHYDRAZINE
Transport document description (ADR)	: UN 2572 PHENYLHYDRAZINE, 6.1, II, (D/E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2572 PHENYLHYDRAZINE, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2572 PHENYLHYDRAZINE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 2572 PHENYLHYDRAZINE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 2572 PHENYLHYDRAZINE, 6.1, II, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es) ADR	
Transport hazard class(es) (ADR)	: 6.1
Danger labels (ADR)	: 6.1

Saloty Bala Shoot		
IMDG Transport hazard class(es) (IMDG)	: 6.1	
Danger labels (IMDG)	: 6.1	
	6	
ΙΑΤΑ		
Transport hazard class(es) (IATA)	: 6.1	
Hazard labels (IATA)	: 6.1	
ADN		
Transport hazard class(es) (ADN)	: 6.1	
Danger labels (ADN)	: 6.1	
	6 <b>*</b>	
RID		
Transport hazard class(es) (RID)	: 6.1	
Danger labels (RID)	: 6.1	
14.4. Packing group		
Packing group (ADR)	: 11	
Packing group (IMDG)		
Packing group (IATA) Packing group (ADN)	: II : II	
Packing group (RID)	: II	
14.5.Environmental hazardsDangerous for the environment	: Yes	
Marine pollutant	: Yes	
Other information	No supplementary information available	
14.6. Special precautions for user		
- Overland transport		
Classification code (ADR) Limited quantities (ADR)	: T1 : 100ml	
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Excepted quantities (ADR)	: E4
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BH
Tank special provisions (ADR)	: TU15, TE19
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV13, CV28
Special provisions for carriage - Operation (ADR)	: S9, S19
Hazard identification number (Kemler No.)	: 60
Orange plates	· <b>60</b>
	2572
Tunnel restriction code (ADR)	: D/E
EAC code	: •3X
- Transport by sea	
Limited quantities (IMDG)	: 100 ml
Excepted quantities (IMDG)	: E4
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-A
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
MFAG-No	: 153
- Air transport	. 54
PCA Excepted quantities (IATA)	: E4
PCA Limited quantities (IATA)	: Y641
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 654
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 662
CAO max net quantity (IATA)	: 60L
ERG code (IATA)	: 6L
- Inland waterway transport	
Classification code (ADN)	: T1
Special provisions (ADN)	: 802
Limited quantities (ADN)	: 100 ml
Excepted quantities (ADN)	: E4
Equipment required (ADN)	: PP, EP, TOX, A
Ventilation (ADN)	: VE02
Number of blue cones/lights (ADN)	: 2

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- Rail transport	
Classification code (RID)	: T1
Limited quantities (RID)	: 100ml
Excepted quantities (RID)	: E4
Packing instructions (RID)	: P001, IBC02
Mixed packing provisions (RID)	: MP15
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP2
Tank codes for RID tanks (RID)	: L4BH
Special provisions for RID tanks (RID)	: TU15
Transport category (RID)	: 2
Special provisions for carriage – Loading and unloading (RID)	: CW13, CW28, CW31
Colis express (express parcels) (RID)	: CE5
Hazard identification number (RID)	: 60

### 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

PHENYL HYDRAZINE FOR SYNTHESIS is not on the REACH Candidate List PHENYL HYDRAZINE FOR SYNTHESIS is not on the REACH Annex XIV List

### 15.1.2. National regulations

### Germany

AwSV/VwVwS Annex reference	: Water hazard class (WGK) 3, strongly hazardous to water (Classification according to VwVwS, Annex 3; WGK No 1484)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Denmark	
Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
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
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

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### 15.2. Chemical safety assessment

No additional information available

### **SECTION 16: Other information**

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

Acute Tox. 3 (Dermal)Acute Tox. 3 (Inhalation)Acute Tox. 3 (Oral)Aquatic Acute 1Carc. 1BEye Irrit. 2Muta. 2Skin Irrit. 2	Acute toxicity (dermal), Category 3 Acute toxicity (inhal.), Category 3 Acute toxicity (oral), Category 3 Hazardous to the aquatic environment — Acute Hazard, Category 1 Carcinogenicity, Category 1B Serious eye damage/eye irritation, Category 2 Germ cell mutagenicity, Category 2 Skin corrosion/irritation, Category 2 Sensitisation — Skin, category 1 Specific target organ toxicity — Repeated exposure, Category 1
Acute Tox. 3 (Oral) Aquatic Acute 1 Carc. 1B Eye Irrit. 2 Muta. 2	Acute toxicity (oral), Category 3 Hazardous to the aquatic environment — Acute Hazard, Category 1 Carcinogenicity, Category 1B Serious eye damage/eye irritation, Category 2 Germ cell mutagenicity, Category 2 Skin corrosion/irritation, Category 2 Sensitisation — Skin, category 1
Aquatic Acute 1Carc. 1BEye Irrit. 2Muta. 2	Hazardous to the aquatic environment — Acute Hazard, Category 1 Carcinogenicity, Category 1B Serious eye damage/eye irritation, Category 2 Germ cell mutagenicity, Category 2 Skin corrosion/irritation, Category 2 Sensitisation — Skin, category 1
Carc. 1B Eye Irrit. 2 Muta. 2	Carcinogenicity, Category 1B Serious eye damage/eye irritation, Category 2 Germ cell mutagenicity, Category 2 Skin corrosion/irritation, Category 2 Sensitisation — Skin, category 1
Eye Irrit. 2 Muta. 2	Serious eye damage/eye irritation, Category 2 Germ cell mutagenicity, Category 2 Skin corrosion/irritation, Category 2 Sensitisation — Skin, category 1
Muta. 2	Germ cell mutagenicity, Category 2 Skin corrosion/irritation, Category 2 Sensitisation — Skin, category 1
	Skin corrosion/irritation, Category 2 Sensitisation — Skin, category 1
Skin Irrit. 2	Sensitisation — Skin, category 1
Skin Sens. 1	Specific target argen tavisity — Beneated expensive Category 1
STOT RE 1	Specific larger organ loxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
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
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R36/38	Irritating to eyes and skin
R43	May cause sensitisation 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 risk of irreversible effects
N	Dangerous for the environment
Т	Тохіс
Xi	Irritant

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