SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name: Phenol

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

Identified uses: Reagents.

1.3 Details of the supplier of the safety data sheet

Supplier:

Naarini MolBio Pharma Private Limited

308, Yash Arian, Swami Vivekanand Cirle,
Memnagar, Ahmedabad,
India - 380052.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity (Oral)	Category 3
Acute toxicity (Dermal)	Category 3
Acute toxicity (Inhalation)	Category 3
Skin corrosion/irritation	Category 1B
Germ cell mutagenicity	Category 2
Specific target organ toxicity - Repeated exposure [Category 2]	Organs

2.2 Label elements

Pictograms or hazard symbols

Hazard statements

H301+H311+H331-Toxic if swallowed, in contact with skin or if inhaled.
H314-Causes severe skin burns and eye damage.
H341-Suspected of causing genetic defects.
H373-May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260-Do not breathe dust/fume/gas/mist/vapours/spray.
P280-Wear protective gloves, protective clothing, face protection.
P301+P330+P331+P310-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.
P303+P361+P353+P310+P363-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse.
P304+P340+P310-IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.
P305+P351+P338+P310-IF IN EYES: 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.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable

vPvB: Not applicable

SECTION 3: Composition/information on ingredients

3.1 Substances

Components:	Phenol
Percent:	>99.5%(GC)
CAS RN:	108-95-2
EC-No:	203-632-7
Chemical Formula:	C_6H_6O

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
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/physician.
Ingestion:	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
Protection of first-aiders:	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
5.2 Special hazards arising from the substance or mixture	Carbon dioxide, Carbon monoxide
5.3 Advice for firefighters	Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so. When extinguishing fire, be sure to wear personal protective equipment

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Keep people away from and upwind of spill/leak. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc
6.2 Environmental precautions	Prevent product from entering drains
6.3 Methods and materials for containment and cleaning up	Sweep dust to collect it into an airtight container, taking care not to disperse it. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
6.4 Reference to other sections	For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated. Avoid all contact!
7.2 Conditions for safe storage, including any incompatibilities	Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Light-sensitive, Air-sensitive
7.3 Specific end use(s)	No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

ACGIH TLV(TWA):	5 ppm (skin)
OSHA PEL(TWA):	5 ppm (skin)
JSOH OELs(TWA):	5 ppm (skin)

8.2 Exposure controls Install a closed system or local exhaust. Also install safety shower and eye bath.

Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.
Hand protection:	Impervious gloves.
Eye protection:	Safety goggles. A face-shield, if the situation requires.
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state (20°C):	Solid
Form:	Crystal - Lump
Colour:	White - Pale red
Odour:	Characteristic
Odour threshold:	0.040 ppm
pH:	6.0 (H_2O soln.)
Melting point/freezing point:	42°C
Boiling point/range:	181°C
Flash point:	No data available (Calculated value:>60°C)
Flammability or explosive limits:	
Lower:	1.4%
Upper:	10%
Vapour pressure:	47Pa/20°C
Vapour density:	3.2
Relative density:	No data available
Solubility(ies):	
[Water]	Soluble (8g/100mL, 20°C)
[Other solvents]	
Very soluble:	Ether, Alcohols, Acetone, Chloroform, Glycerol , Carbon disulfide
Soluble:	Methanol, Benzene
Partition coefficient: n-octanol/water:	1.46
Autoignition temperature:	715°C
Decomposition temperature:	No data available
Dynamic Viscosity:	4.67mPa·s (40°C)
Kinematic viscosity:	2.52mm^2/s (60°C)

9.2 Other safety information No data available

SECTION 10: Stability and reactivity

10.1 Reactivity No data available

10.2 Chemical stability Stable under proper conditions.

10.3 Possibility of hazardous reactions No special reactivity has been reported.

10.4 Conditions to avoid No data available

10.5 Incompatible materials Oxidizing agents

10.6 Hazardous decomposition products Carbon dioxide, Carbon monoxide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute Toxicity:	ihl-rat LC50:316 mg/m³ orl-hmn LDLo:14 g/kg orl-rat LD50:317 mg/kg skn-rbt LD50:630 mg/kg
Skin corrosion/irritation:	skn-rbt 500 mg/24H SEV
Serious eye damage/irritation:	eye-rbt 5 mg SEV
Germ cell mutagenicity:	oms-hmn-hla:17 mg/L mmo-sat:40 umol/plate (-S9) mmo-mus-lym:300 mg/L (+S9)
Carcinogenicity:	skn-mus TDLo:16 g/kg/40W-I
IARC =	Group 3 (Not classifiable as carcinogenic to humans)
Reproductive toxicity:	orl-mus TDLo:2600 mg/kg (6-15D preg) orl-rat TDLo:1200 mg/kg (6-15D preg)
RTECS Number:	SJ3325000

SECTION 12: Ecological information

12.1 Toxicity

Fish:	96h LC50:25 mg/L (Oryzias latipes)
Crustacea:	48h EC50:15 mg/L (Daphnia magna)
Algae:	72h EC50:58 mg/L (Selenastrum capricornutum)

12.2 Persistence and degradability 85% (by BOD) , 95% (by TOC) , 100% (by UV-VIS)

12.3 Bioaccumulative potential 17.5

12.4 Mobility in soil

Log Pow:	1.46
Soil adsorption (Koc):	2900 - 3100
Henry's Law (PaM ³/mol):	3.37 x 10^{-2}

12.5 Results of PBT and vPvB assessment

PBT:	Not applicable
vPvB:	Not applicable

12.6 Other adverse effects No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recycle to process, if possible. Consult your local regional authorities. Observe all federal, state and local regulations when disposing of the substance.

SECTION 14: Transport information

14.1 UN number 1671

14.2 UN proper shipping name

ADR/RID	Phenol, solid
IMDG/IMO	Phenol, solid
ICAO/IATA	Phenol, solid

14.3 Transport hazard class(es)

ADR/RID	6.1: Toxic substance
IMDG/IMO	6.1: Toxic substance
ICAO/IATA	6.1: Toxic substance

14.4 Packaging group

ADR/RID	II
IMDG/IMO	II
ICAO/IATA	II

14.5 Environmental hazards

Marine pollutant -

14.6 Special precautions for user No data available

SECTION 15: Regulatory information

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

Water Hazard Classes (WGK) :	Class 2 - Hazard to waters
Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No.1907/2006	Not listed

15.2 Chemical safety assessment A chemical safety assessment has not been carried out.

SECTION 16: Other information

This SDS was prepared sincerely on the basis of the information we could obtained, however, any warranty shall not be given regarding the data contained and the assessment of hazards and toxicity. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Prior to use, please investigate not only the hazards and toxicity information but also the laws and regulations of the organization, area and country where the products are to be used, which shall be given the first priority.
The products are supposed to be used promptly after purchase in consideration of safety. Some new information or amendments may be added afterwards. If the products are to be used far behind the expected time of use or you have any questions, please feel free to contact us. The stated cautions are for normal handling only. In case of special handling, sufficient care should be taken, in addition to the safety measures suitable for the situation. All chemical products should be treated with the recognition of "having unknown hazards and toxicity", which differ greatly depending on the conditions and handling when in use and/or the conditions and duration of storage. The products must be handled only by those who are familiar with specialized knowledge and have experience or under the guidance of those specialists throughout use from opening to storage and disposal. Safe usage conditions shall be set up on each user's own responsibility.