



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : P 74029
Product Name : PHENOL A.R.

Manufacturer/supplier identification
Company : NICE Chemicals (P) Ltd., Cochin, India
Tel - 0484 2800212, 2802755

Contact for information : Tel. No.- 0484 2802536 Fax : 0484 2802483
Emergency Telephone No. : 0484 2801583 Tele fax No. : 0484 2802483

2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Carbolic Acid

CAS-No : 108-95-2 Ec-Index No. : 604-001-00-2
Molar Mass : 94.11 EC-No. : 203-632-7
Molecular Formula : C₆H₆O

3. HAZARDS IDENTIFICATION

Toxic in contact with skin and if swallowed, Causes burns.

4. FIRST AID MEASURES

After skin contact : Rinse off with a mixture of Polyethylene Glycol300/ethanol 2:1. Rewash with plenty of water. Immediately remove contaminated clothing.

After eye contact : Rinse out with plenty of water for atleast 10 minutes with the eyelid held wide open. Immediately summon eye specialist.

After inhalation : Fresh air. Summon Doctor. Oxygen mask.

After swallowing: Make victim drink plenty of water, avoid vomiting, Subsequently administer: Activated charcoal (20-40 g in 10% slurry). Immediately summon doctor.

5. FIRE-FIGHTING

Suitable extinguishing media : Water, foam.

Special risks : Combustible. Vapours heavier than air. Formation of explosive mixtures possible with air. Development of hazardous combustion gases or vapours possible in the event of fire.

Special protective equipment for fire fighting : Do not stay in dangerous zone Without suitable chemical protection clothing and self-contained breathing apparatus.

Other information : Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or ground water.

6. ACCIDENTAL RELEASE MEASURES

Person related precautionary measures : Avoid generation of dusts; do not



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inhale dust. Avoid substance contact.
Procedures for cleaning/absorption : Carefully take up dry. Forward for disposal.
Clean up affected area.
Environmental-protection measures : Do not allow to enter sewerage system.

7. HANDLING AND STORAGE

Handling : Work under hood. Do not inhale substance.
Storage : Tightly closed. Dry. Protected from light. In a well-ventilated place.
At +15° C to +25° C. Accessible only for authorised persons.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Specific control/parameter : (Max. workplace conc.) Phenol : Skin resorption
Respiratory protection: Required when dusts/vapours/aerosols are generated.
Filter A(acc.to DIN 3181) for vapours of organic compounds.

Eye Protection : Required
Hand Protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Other protective equipment : Suitable protective clothing. Protective gloves.

Industrial hygiene : Immediately change contaminated clothing. Apply skin protective barrier cream. Wash hands & face after working with substance.
Do not inhale substance. Under no circumstances eat or drink at work place.

9. PHYSICAL & CHEMICAL

Form	:	Solid
Colour	:	Colourless
Odour	:	Characteristic
pH value at 50 g/l H ₂ O (20° C)	:	~ 5
Melting temperature	:	40.8° C
Boiling temperature	:	181.8° C
Ignition temperature	:	595° C
Flash Point	:	81° C
Explosion limit lower	:	1.3 Vol % (Hommel)
upper	:	9.5 Vol % (Hommel)
Vapour pressure (20° C)	:	0.2 hPa
Relative vapour density	:	Not available
Density (20° C)	:	1.06 g/cm ³
Bulk density	:	~ 620 Kg/m ³
Solubility in Water (20° C)	:	82 gm/lt.
Ethanol	:	Freely Soluble
Ether	:	Freely Soluble
Log P (oct)	:	-1.46



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10. STABILITY & REACTIVITY

Conditions to be avoided : Heating
Substances to be avoided : Aluminium, aldehydes, halogens, nitrites, hydrogen peroxide/iron (III) compounds, salts of oxy halogenic acids, peroxy compounds.
Hazardous decomposition products : No information available.
Further information : Hygroscopic; unsuitable working materials: various metals, rubber, various plastics, various alloys.

Explosible with air in a vapourous/gaseous state.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity : LDLo (oral, human) : 140 mg/Kg ;
LD₅₀ (oral ,rat) : 317 mg/Kg ;
LD₅₀ (dermal, rat) : 669 mg/Kg
LD₅₀ (inhalation, rat) : 316 mg/Kg³

Subacute to chronic toxicity :

The carcinogenic potential requires further clarification.

Further toxicological Information :

After inhalation : Irritations of the mucous membranes, coughing, and dyspnoea.

After skin contact : Burns. Danger of skin absorption.

After eye contact : Burns. Risk of blindness !

After swallowing : Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Systemic effects : CNS disorders, cardiovascular disorders, changes in the blood picture.

Sensitization with allergic manifestations in predisposed persons.

Further data : The product should be handled with the care usual when dealing with chemicals.

12. ECOLOGICAL INFORMATION

Biologic degradation : Biological degradability : good (>70%)

Behavior in environmental compartments :

Distribution : log P(oct) : 1.46;

Low bioaccumulation potential.

Ecotoxic effects : Biological effects : Toxic for aquatic organisms. Toxic effect on fish and plankton. Forms toxic mixtures in water, dilution measures not with standing. Change in the flavour characteristic of fish protein. Endangers drinking-water supplies if allowed to enter soil or water.

Fish toxicity : L.idus LC₅₀ : 14 mg/l.; C.auratus LC₅₀ : 46 mg/l./24 h;

Daphnia toxicity : Daphnia magna EC₅₀ : 12 mg/l; Algal toxicity :

S.quadricauda EC₅ : 7.5 mg/l. Bacterial toxicity : Ps.putida EC₅ : 64 mg/l.; aquatic organisms LC₅₀ : 000 10 - 100 mg/l./96 h



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Further ecologic data:

Degradability: BOD : 1.88 g/g; COD: 2.3 g/g; ThOD : 2.26 mg/l/
Do not allow to enter water, waste water or soil !

13. DISPOSAL METHOD

There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulations. Handle contaminated packaging in the same way as the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

14. TRANSPORT INFORMATION

GGVS/GGVE class : 6.1 Number and letter : 14b
Transport over land ADR/RID class : 6.1 Number and letter : 14b
ADR/RID and GGVS/GGVE : Name of material : PHENOL

Sea Transport IMDG : IMDG class : 6.1 UN No. : 1671 Packing group : II
Ems : 6.1 - 04 MFAG : 710
Correct Technical Name : PHENOL

Air Transport
ICAO-TI & IATA-DGR : ICAO/IATA class : 6.1 UN No. : 1671 Packaging group II
Correct Technical Name : PHENOL

15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol : T Toxic
R-phrases : 24/25-34 Toxic in contact with skin and if swallowed.
Causes burns.

S-phrases : 28-45 After contact with skin, wash immediately with plenty of polyethylene glycol 400 then rinse with plenty of water. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

EC-No. : 203-632-7 EC label

Water pollution class : 2 (polluting substance)



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16. OTHER INFORMATION

Reason for alteration

See chapter 8 : Specific control parameter.
Change in the chapter on toxicology.

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.