

ROSS CHEM COMPANY LIMITED.

Revision number: 2

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Phenol
Company: ROSS CHEM COMPANY LIMITED.
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Revision number: 2

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Acute toxicity (Oral)

Category 4

Acute toxicity (Dermal)

Category 3

Skin corrosion/irritation

Category 1B

Serious eye damage/eye irritation

Category 1

Germ cell mutagenicity

Category 1B

Reproductive toxicity

Category 1B

Specific target organ toxicity

Respiratory system Nervous system Cardiovascular system Kidney

- Single exposure [Category 1]

Specific target organ toxicity

Liver Thymus Blood system Digestive tract Cardiovascular system Kidney Central nervous system Spleen

- Repeated exposure [Category 1]

ENVIRONMENTAL HAZARDS

Acute aquatic hazard

Category 2

Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

Harmful if swallowed

Toxic in contact with skin

Causes severe skin burns and eye damage

May cause genetic defects

May damage fertility or the unborn child

Causes damage to organs : Respiratory system Nervous system Cardiovascular system Kidney

Causes damage to organs through prolonged or repeated exposure : Liver Thymus Blood system Digestive tract Cardiovascular system Kidney Central nervous system Spleen

Spleen

Toxic to aquatic life

Precautionary statements

[Prevention]

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust, fume, mist, vapors or spray.

Avoid release to the environment.

Do not eat, drink or smoke when using this product.

Wash hands and face thoroughly after handling.

Wear protective gloves, protective clothing, face protection.

[Response]

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

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.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor.

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.

If exposed or concerned: Call a POISON CENTER or doctor.

[Storage]

Store locked up.

[Disposal]

Dispose of contents and container in accordance with local, regional, national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture:	Substance
Components:	Phenol
Percent:	>99.5%(GC)
CAS RN:	108-95-2
Chemical Formula:	C ₆ H ₆ O

4. 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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.
Precautions 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.
Special protective equipment for firefighters:	When extinguishing fire, be sure to wear personal protective equipment

6. ACCIDENTAL RELEASE MEASURES

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.
Environmental precautions:	Prevent product from entering drains.
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.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: 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.

Advice on safe handling: Avoid all contact!

Conditions for safe storage, including any incompatibilities

Storage conditions: 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

Packaging material: Comply with laws.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

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

Exposure limits:

ACGIH TLV(TWA): 5 ppm (skin)

OSHA PEL(TWA): 5 ppm (skin)

Personal protective equipment

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.

9. 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 (H₂O soln.)

Melting point/freezing point: 42°C

Boiling point/range: 181°C

Flash point: No data available

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

Log Pow: 1.46

Autoignition temperature: 715°C

Dynamic Viscosity: 4.67mPa·s (40°C)

Kinematic viscosity: 2.52mm²/s (60°C)

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ihl-rat LC50:316 mg/m ³ 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)
NTP =	No data available
Reproductive toxicity:	orl-mus TDLo:2600 mg/kg (6-15D preg) orl-rat TDLo:1200 mg/kg (6-15D preg)
RTECS Number:	SJ3325000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	96h LC50:25 mg/L (Oryzias latipes)
Crustacea:	48h EC50:15 mg/L (Daphnia magna)
Algae:	72h EC50:58 mg/L (Selenastrum capricornutum)
Persistence / degradability:	85% (by BOD) , 95% (by TOC) , 100% (by UV-VIS)
Bioaccumulative potential(BCF):	17.5
Mobility in soil	
Log Pow:	1.46
Soil adsorption (Koc):	2900 - 3100
Henry's Law (PaM³/mol):	3.37 x 10 ⁻²

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

Hazards Class:	6.1: Toxic substance.
UN-No:	1671
Proper shipping name:	Phenol, solid
Packing group:	II

15. REGULATORY INFORMATION

Regulations on the Control over Safety of Dangerous Chemicals (State Council announces on January 26, 2002 and revised on February 16,2011): Safe use and production, the storage of a dangerous chemical, transport, loading and unloading were prescribed.

This product is included in the list of dangerous chemicals(2015)/Serial No.: 60

16. OTHER INFORMATION

The reference company name of written contents

Company: ROSS CHEM COMPANY LIMITED.
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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. 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.