

ROSS CHEM COMPANY LIMITED.

Revision number: 1

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Naphthalene
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Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable solids Category 2

HEALTH HAZARDS

Acute toxicity (Oral) Category 4
Serious eye damage/eye irritation Category 2B
Skin sensitization Category 1
Carcinogenicity Category 2
Specific target organ toxicity
- Single exposure [Category 1] Blood Respiratory system Eye
Specific target organ toxicity
- Repeated exposure [Category 1] Blood Respiratory system Eye

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 1
Long-term aquatic hazard Category 1

Label elements

Pictograms or hazard symbols



Signal word

Hazard statements

Danger
Flammable solid
Harmful if swallowed
Causes eye irritation
May cause an allergic skin reaction
Suspected of causing cancer
Causes damage to organs : Blood Respiratory system Eye
Causes damage to organs through prolonged or repeated exposure : Blood Respiratory system Eye
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects

Precautionary statements
[Prevention]

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Keep away from heat, sparks, open flames and hot surfaces. -No smoking.
Ground and bond container and receiving equipment.

Use explosion-proof electrical, ventilating and lighting equipment.

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

Avoid release to the environment.

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

Contaminated work clothing should not be allowed out of the workplace.

Wash hands and face thoroughly after handling.

Wear protective gloves, protective clothing, face protection.

[Response]

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs:

Take off contaminated clothing. And wash it before reuse.

IF IN EYES: 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 or attention.

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

Collect spillage.

[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:	Naphthalene
Percent:	>98.0%(GC)
CAS RN:	91-20-3
Chemical Formula:	C ₁₀ H ₈

4. FIRST AID MEASURES

Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. 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. Call a POISON CENTER or doctor/physician.
Ingestion:	Call a POISON CENTER or doctor/physician. Rinse mouth.
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:	Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.
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.
Prevention of secondary hazards:	Remove all sources of ignition. Fire-extinguishing devices should be prepared in case of a fire. Use spark-proof tools and explosion-proof equipment.

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. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. 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 locked up. Store away from incompatible materials such as oxidizing agents.

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): 10 ppm (skin)

OSHA PEL(TWA): 10 ppm

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 - Powder

Colour: White - Almost white

Odour: Aromatic

Odour threshold: 0.084 ppm

pH: No data available

Melting point/freezing point: 81°C

Boiling point/range: 218°C

Flash point: No data available

Flammability or explosive limits:

Lower: 0.9%

Upper: 5.9%

Vapour pressure: 0.04kPa/25°C

Vapour density: 4.42

Relative density: No data available

Solubility(ies):

[Water] Insoluble (31mg/L, 25°C)

[Other solvents]

Very soluble: Ether

Soluble: Alcohols, Benzene, Chloroform, Toluene, Carbon tetrachloride, Carbon disulfide

Log Pow: 3.3

Autoignition temperature: 540°C

Kinematic viscosity: 0.26mm²/s (80°C)

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Conditions to avoid:	Spark, Open flame, Static discharge
Incompatible materials:	Oxidizing agents
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	orl-rat LD50:490 mg/kg skn-rbt LD50:>20 g/kg ihl-rat LC50:>340 mg/m ³ /1H ivn-mus LD50:100 mg/kg
Skin corrosion/irritation:	skn-rbt 495 mg open MLD
Serious eye damage/irritation:	eye-rbt 100 mg MLD
Germ cell mutagenicity:	cyt-ham-ovr 30 mg/L slt-dmg-orl 5 mmol/L sce-ham-ovr 15 mg/L
Carcinogenicity:	ihl-rat TCLo:1575 mg/kg/105W-
IARC =	Group 2B (Possibly carcinogenic to humans)
NTP =	b (Reasonably anticipated to be carcinogens)
Reproductive toxicity:	orl-rat TDL0:4500 mg/kg (6-15D preg)
RTECS Number:	QJ0525000

12. ECOLOGICAL INFORMATION

Ecotoxicity:	
Fish:	48h LC50:9.0 ppm (Oryzias latipes)
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	2 % (by BOD) , 0 % (by GC)
Bioaccumulative potential(BCF):	36.5 - 168 (conc. 0.15 ppm) , 23 - 146 (conc. 0.15 ppm)
Mobility in soil	
Log Pow:	3.3
Soil adsorption (Koc):	No data available
Henry's Law (PaM³/mol):	45

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class:	4.1: Flammable solid.
UN-No:	1334
Proper shipping name:	Naphthalene, refined
Packing group:	III
Marine pollutant	Y

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.: 1585

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.