

ROSS CHEM COMPANY LIMITED.

Revision number: 2

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Page 1 of 5

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Maleic Anhydride
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 5

Skin corrosion/irritation

Category 1B

Serious eye damage/eye irritation

Category 1

Respiratory sensitization

Category 1

Skin sensitization

Category 1A

Specific target organ toxicity

Liver Respiratory system Digestive tract

- Single exposure [Category 1]

Specific target organ toxicity

Blood system Respiratory system

- Repeated exposure [Category 1]

Specific target organ toxicity

Kidney

- Repeated exposure [Category 2]

ENVIRONMENTAL HAZARDS

Acute aquatic hazard

Category 3

Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

Harmful if swallowed

May be harmful in contact with skin

Causes severe skin burns and eye damage

May cause allergy or asthma symptoms or breathing difficulties if inhaled

May cause an allergic skin reaction

Causes damage to organs : Liver Respiratory system Digestive tract

Causes damage to organs through prolonged or repeated exposure : Blood system Respiratory system

May cause damage to organs through prolonged or repeated exposure : Kidney

Harmful to aquatic life

Precautionary statements**[Prevention]**

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 respiratory protection.

[Response]

Wear protective gloves, protective clothing, face protection.
 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.

[Storage]**[Disposal]**

If exposed or concerned: Call a POISON CENTER or doctor.
 Store locked up.
 Dispose of contents and container in accordance with local, regional, national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance
Components: Maleic Anhydride
Percent: >99.0%(GC)(T)
CAS RN: 108-31-6
Chemical Formula: C₄H₂O₃

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: Foam, water spray, carbon dioxide.
Unsuitable extinguishing media: Powder
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 extra personal protective equipment (self-contained breathing apparatus). 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.
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Advice on safe handling: Avoid contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage conditions:	Keep container tightly closed. Store in a cool and dark place. Store under inert gas. Protect from moisture. Store locked up. Store away from incompatible materials such as oxidizing agents. Moisture-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):	0.01 mg/m ³ (IFV) (sen)
OSHA PEL(TWA):	0.25 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:	Pellet
Colour:	White
Odour:	Pungent
Odour threshold:	0.32 ppm
pH:	No data available
Melting point/freezing point:	54°C
Boiling point/range:	199°C
Flash point:	No data available
Flammability or explosive limits:	
Lower:	1.4%
Upper:	7.1%
Vapour pressure:	25Pa/25°C
Vapour density:	3.4
Relative density:	No data available
Solubility(ies):	
[Water]	Soluble (40g/100mL)
[Other solvents]	
Very soluble:	Acetone, Ethyl acetate
Soluble:	Ether, Benzene, Chloroform, Ethanol, Toluene, Dioxane
Very slightly soluble:	Carbon tetrachloride, Ligroin
Log Pow:	1.62
Autoignition temperature:	466°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, Bases, Metals, Amines, Metal salts
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	orl-rat LD50:400 mg/kg skn-rbt LD50:2620 mg/kg ipr-rat LD50:97 mg/kg
Skin corrosion/irritation:	No data available
Serious eye damage/irritation:	eye-rbt 1% SEV
Germ cell mutagenicity:	cyt-ham-Ing 230 mg/L
Carcinogenicity:	scu-rat TDLo:1220 mg/kg/61W-I
IARC =	No data available
NTP =	No data available
Reproductive toxicity:	orl-rat TDLo:1400 mg/kg (6-15D preg) orl-rat TDLo:150 mg/kg (multigeneration)
RTECS Number:	ON3675000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	No data available
Crustacea:	24h EC50:85 mg/L (Daphnia magna)
Algae:	No data available
Persistence / degradability:	54.8 % (by BOD) , 85.0 % (by TOC) , 100 % (by UV-VIS)
Bioaccumulative potential(BCF):	No data available
Mobility in soil	
Log Pow:	1.62
Soil adsorption (Koc):	No data available
Henry's Law (PaM³/mol):	No data available

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:	8: Corrosive.
UN-No:	2215
Proper shipping name:	Maleic anhydride
Packing group:	III

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.: 1565

16. OTHER INFORMATION

The reference company name of written contents

Company:	ROSS CHEM COMPANY LIMITED
Address:	No. 227.NanYi Road, Dongying City, Shandong Province, China 257091
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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.