

ROSS CHEM COMPANY LIMITED .

Revision number: 3.1

Revision date: 11/11/2021

Page 1 of 5

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: Ammonia (ca. 4% in Isopropyl Alcohol, ca. 2.0mol/L)
Company: ROSS CHEM COMPANY LIMITED .
Address: No. 227.NanYi Road, Dongying City, Shandong Province, China 257091
Responsible Department: Sales Department
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Revision number: 3.1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable liquids Category 2

HEALTH HAZARDS

Acute toxicity (Oral) Category 5
Acute toxicity (Dermal) Category 5
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 1
Germ cell mutagenicity Category 2
Reproductive toxicity Category 2
Specific target organ toxicity
- Single exposure [Category 1] Respiratory system Kidney Central nervous system
Specific target organ toxicity
- Single exposure [Category 3] Respiratory tract irritation
Specific target organ toxicity
- Repeated exposure [Category 2] Liver Lung Spleen Blood vessels
Aspiration hazard Category 2

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 2
Long-term aquatic hazard Category 2

Label elements

Pictograms or hazard symbols



Signal word

Hazard statements

Danger

Highly flammable liquid and vapour
May be harmful if swallowed or in contact with skin
Causes skin irritation
Causes serious eye damage
Suspected of causing genetic defects
Suspected of damaging fertility or the unborn child
Causes damage to organs : Respiratory system Kidney
Central nervous system
May cause damage to organs through prolonged or
repeated exposure : Liver Lung Spleen Blood vessels

May cause respiratory irritation
 May be harmful if swallowed and enters airways
 Toxic to aquatic life
 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.
 Keep container tightly closed.
 Ground and bond container and receiving equipment.
 Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
 Do not breathe mist, vapors or spray.
 Use only outdoors or in a well-ventilated area.
 Avoid release to the environment.
 Do not eat, drink or smoke when using this product.
 Wash hands and face thoroughly after handling.

[Response]

Wear protective gloves, protective clothing, face protection.
 IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce vomiting.
 IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice or attention. Take off contaminated clothing and wash it before reuse.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
 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]

Collect spillage.
 Store in a well-ventilated place. Keep container tightly closed.

[Disposal]

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Mixture
Components: Ammonia (ca. 4% in Isopropyl Alcohol, ca. 2.0mol/L)
Percent:
CAS RN: 7664-41-7
Chemical Formula: NH₃

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 in large amounts, 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: Keep containers cool by spraying with water. Eliminate all ignition sources 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. Ensure adequate ventilation. 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:** Absorb spilled material in dry sand or inert absorbent before recovering it into an airtight container. In case of large amount of spillage, contain a spill by bunding. 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 generation of vapour or mist. Keep away from heat/sparks/open flame/hot surfaces. -No smoking. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.
- Advice on safe handling:** Avoid all contact!
May develop pressure. Open carefully.

Conditions for safe storage, including any incompatibilities

- Storage conditions:** Keep container tightly closed. Store in an explosion-proof refrigerator. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-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:** (IPA)
ACGIH TLV(TWA):200 ppm
ACGIH TLV(STEL):400 ppm
OSHA PEL(TWA):400 ppm
- Personal protective equipment**
- Respiratory protection:** Half or full facepiece 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):	Liquid	
Form:	Clear	
Colour:	Colorless	
Odour:	No data available	
pH:	No data available	
Melting point/freezing point:	No data available (IPA) -90°C	
Boiling point/range:	No data available (IPA) 82°C	
Flash point:	No data available	(IPA) 15°C
Flammability or explosive limits:		
Lower:	No data available	
Upper:	No data available	
Relative density:	0.78	
Solubility(ies):		
[Water]	No data available	
[Other solvents]	No data available	
Log Pow:	(IPA) 0.05	

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, Acids
Hazardous decomposition products:	Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	No data available (IPA) orl-hmn LDLo:3570 mg/kg orl-rat LD50:5000 mg/kg skn-rbt LD50:12800 mg/kg ihl-rat LC50:72600 mg/m ³
Skin corrosion/irritation:	No data available (IPA) skn-rbt 500 mg MLD
Serious eye damage/irritation:	No data available (IPA) eye-rbt 100 mg/24H MOD
Germ cell mutagenicity:	No data available (IPA) cyt-rat-ihl 1030 ug/m ³ /16W-I
Carcinogenicity:	
IARC =	No data available
NTP =	No data available (IPA) IARC = 3
Reproductive toxicity:	No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity:**

Fish:	No data available
Crustacea:	No data available
Algae:	No data available
Persistence / degradability:	No data available
Bioaccumulative potential(BCF):	No data available
Mobility in soil	
Log Pow:	No data available
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 burn in a chemical incinerator equipped with an afterburner and scrubber system but exert extra care in igniting as this material is highly flammable. Observe all federal, state and local regulations when disposing of the substance

14. TRANSPORT INFORMATION

Hazards Class:	3: Flammable liquid.
UN-No:	1219
Proper shipping name:	Isopropyl alcohol solution
Packing group:	II
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.: 2828

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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Fax:	86 546 8275058

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.