

ROSS CHEM COMPANY LIMITED.

Revision number: 1

Revision date: 09/05/2019

Page 1 of 5

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SAFETY DATA SHEET

1. IDENTIFICATION

Product name: 1,2-Dichloropropane
Company: ROSS CHEM COMPANY LIMITED.
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Revision number: 1

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable liquids Category 2

HEALTH HAZARDS

Acute toxicity (Oral) Category 4

Acute toxicity (Inhalation) Category 4

Skin corrosion/irritation Category 2

Serious eye damage/eye irritation Category 2A

Skin sensitization Category 1

Carcinogenicity Category 1A

Reproductive toxicity Category 2

Specific target organ toxicity
Liver Blood Kidney

- Single exposure [Category 1]

Specific target organ toxicity
Respiratory tract irritation, Narcotic effects

- Single exposure [Category 3]

Specific target organ toxicity
Liver Blood system Kidney

- Repeated exposure [Category 1]

Specific target organ toxicity
Respiratory system

- Repeated exposure [Category 2]

ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 3

Long-term aquatic hazard Category 3

Label elements

Pictograms or hazard symbols



Signal word

Hazard statements

Danger

Highly flammable liquid and vapour

Harmful if swallowed or if inhaled

Causes skin irritation

Causes serious eye irritation

May cause an allergic skin reaction

May cause cancer

Suspected of damaging fertility or the unborn child

Causes damage to organs : Liver Blood Kidney

Causes damage to organs through prolonged or repeated exposure : Liver Blood system Kidney
 May cause damage to organs through prolonged or repeated exposure : Respiratory system
 May cause respiratory irritation
 May cause drowsiness or dizziness
 Harmful to aquatic life
 Harmful 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.
 Contaminated work clothing should not be allowed out of the workplace.
 Wash hands and face thoroughly after handling.

[Response]

Wear protective gloves, protective clothing, face protection.
 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 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. If eye irritation persists: Get medical advice or attention.

[Storage]

If exposed or concerned: Call a POISON CENTER or doctor.
 Store in a well-ventilated place. Keep container tightly closed.
 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: 1,2-Dichloropropane
Percent: >98.0%(GC)
CAS RN: 78-87-5
Synonyms: Propylene Chloride , Propylene Dichloride
Chemical Formula: C₃H₆Cl₂

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.
- Unsuitable extinguishing media:** Solid streams of water
- 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:** Prevent product from entering drains.
- 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!

Conditions for safe storage, including any incompatibilities

- Storage conditions:** Keep container tightly closed. Store in a cool, dark and well-ventilated 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):** 75 ppm
- ACGIH TLV(STEL):** 110 ppm
- OSHA PEL(TWA):** 75 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 - Slightly pale yellow
Odour:	Characteristic
pH:	No data available
Melting point/freezing point:	No data available
Boiling point/range:	97°C
Flash point:	14°C
Flammability or explosive limits:	
Lower:	3.4%
Upper:	14.5%
Vapour pressure:	27.9kPa/20°C
Vapour density:	3.9
Relative density:	1.16
Solubility(ies):	
[Water]	Very slightly soluble (0.26g/100mL, 20°C)
[Other solvents]	
Soluble:	Ether, Alcohols, Benzene, Chloroform
Log Pow:	2.28
Autoignition temperature:	558°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, Acids, Bases, Alkali metals, Alkaline earth metals, Metal powders
Hazardous decomposition products:	Carbon monoxide, carbon dioxide etc

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	ihl-rat LC50:2000 ppm/4H orl-rat LD50:1900 mg/kg skn-rbt LD50:8750 mg/kg
Skin corrosion/irritation:	skn-rbt 0.5 mL MLD
Serious eye damage/irritation:	eye-rbt 500 mg MLD
Germ cell mutagenicity:	cyt-ham-ovr 660 mg/L mmo-sat 100 ug/plate (+S9) mmo-sat 333 ug/plate (-S9)
Carcinogenicity:	orl-mus TDLo:130 g/kg/2Y-I
IARC =	Group 1 (Carcinogenic to humans)
NTP =	No data available
Reproductive toxicity:	orl-rbt TDLo: 1950 mg/kg (7-19D preg) orl-rat TDLo: 1250 mg/kg (6-15D preg)
RTECS Number:	TX9625000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish:	96h LC50:160 mg/L (Oryzias latipes) 48h LC50:104 ppm (Oryzias latipes)
Crustacea:	48h EC50:30 mg/L (Daphnia magna)
Algae:	72h EC50:140 mg/L (Selenastrum capricornutum)
Persistence / degradability:	0% (by BOD) , 1% (by TOC)
Bioaccumulative potential(BCF):	1.2 - 3.2(conc. 0.4 mg/L) , 0.5 - 6.9(conc. 0.04 mg/L)
Mobility in soil	
Log Pow:	2.28
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:	1279
Proper shipping name:	1,2-Dichloropropane
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.: 522

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.