

ROSS CHEM COMPANY LIMITED

Revision number: 1.1

Revision date: 09/05/2019

Page 1 of 5

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# SAFETY DATA SHEET

## 1. IDENTIFICATION

**Product name:** Acetic Acid  
**Company:** ROSS CHEM COMPANY LIMITED  
**Address:** No. 227.NanYi Road, Dongying City, Shandong Province, China 257091  
**Responsible Department:** Sales Department  
**Telephone:** +86 546 8275057  
**Fax:** +86 546 8275058  
**E-mail:** info@rosschem.com  
**Web site:** https://rosschem.com  
**Emergency telephone:** +86 546 8275057  
**Revision number:** 1.1

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

### PHYSICAL HAZARDS

Flammable liquids Category 3

Corrosive to metals Category 1

### HEALTH HAZARDS

Acute toxicity (Oral) Category 5

Acute toxicity (Dermal) Category 4

Skin corrosion/irritation Category 1A

Serious eye damage/eye irritation Category 1

### ENVIRONMENTAL HAZARDS

Acute aquatic hazard Category 3

Label elements

Pictograms or hazard symbols



Signal word

Danger

Hazard statements

Flammable liquid and vapour  
May be corrosive to metals  
May be harmful if swallowed  
Harmful in contact with skin  
Causes severe skin burns and eye damage  
Harmful to aquatic life

Precautionary statements

[Prevention]

Keep away from heat, sparks, open flames and hot surfaces. -No smoking.  
Keep container tightly closed.  
Keep only in original container.  
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 dusts or mists.  
Avoid release to the environment.  
Wash hands and face thoroughly after handling.  
Wear protective gloves, protective clothing, face protection.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

[Response]

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.

Call a POISON CENTER or doctor if you feel unwell.

Absorb spillage to prevent material damage.

**[Storage]**

Store in corrosive resistant bottle or metal container with a resistant inner liner.

Store in a well-ventilated place. Keep cool.

Store locked up.

**[Disposal]**

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

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<b>Substance/mixture:</b>	Substance
<b>Components:</b>	Acetic Acid
<b>Percent:</b>	>99.5%(T)
<b>CAS RN:</b>	64-19-7
<b>Chemical Formula:</b>	C <sub>2</sub> H <sub>4</sub> O <sub>2</sub>

### 4. FIRST AID MEASURES

<b>Inhalation:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
<b>Skin contact:</b>	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.
<b>Eye contact:</b>	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.
<b>Ingestion:</b>	Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.
<b>Protection of first-aiders:</b>	A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

### 5. FIRE-FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Dry chemical, foam, water in large amounts, carbon dioxide.
<b>Precautions for firefighters:</b>	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.
<b>Special protective equipment for firefighters:</b>	When extinguishing fire, be sure to wear personal protective equipment

### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions, protective equipment and emergency procedures:</b>	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.
<b>Environmental precautions:</b>	Prevent product from entering drains.
<b>Methods and materials for containment and cleaning up:</b>	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.
<b>Prevention of secondary hazards:</b>	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 contact with skin, eyes and clothing.  
Use corrosive resistant equipment.

### Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep container tightly closed. Store in a cool, dark and well-ventilated place.  
Store under inert gas.  
Protect from moisture.  
Store locked up.  
Store away from incompatible materials such as oxidizing agents.  
Hygroscopic

**Packaging material:** Comply with laws. Keep only in original container.

## 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

**ACGIH TLV(STEL):** 15 ppm

**OSHA PEL(TWA):** 10 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:** Pungent

**Odour threshold:** 0.48 ppm

**pH:** No data available

**Melting point/freezing point:** 17°C

**Boiling point/range:** 118°C

**Flash point:** 41°C

### **Flammability or explosive limits:**

**Lower:** 6%

**Upper:** 17%

**Vapour pressure:** 1.5kPa/20°C

**Vapour density:** 2.1

**Relative density:** 1.05

### **Solubility(ies):**

**[Water]** Miscible

### **[Other solvents]**

**Miscible:** Ether, Alcohols, Benzene, Acetone

**Soluble:** Many organic solvents

**Insoluble:** Carbon disulfide

**Log Pow:** -0.17

**Autoignition temperature:** 485°C

**10. STABILITY AND REACTIVITY**

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

**11. TOXICOLOGICAL INFORMATION**

<b>Acute Toxicity:</b>	orl-rat LD50:3310 mg/kg ihl-rat LC50:11000 mg/m <sup>3</sup> /4H skn-rbt LD50:1060 mg/kg ivn-mus LD50: 525 mg/kg
<b>Skin corrosion/irritation:</b>	skn-rbt 525 mg open SEV skn-hmn 50 mg/24H MLD
<b>Serious eye damage/irritation:</b>	eye-rbt 5 mg/30S rinse MLD
<b>Germ cell mutagenicity:</b>	mmo-esc 300 ppm/3H (-S9) cyt-ham-ovr 10 mmol/L sce-hmn-lym 5 mmol/L dns-mus-skn 79279 ug/kg
<b>Carcinogenicity:</b>	orl-rat TDLo:5760 mg/kg/32W-I
<b>IARC =</b>	No data available
<b>NTP =</b>	No data available
<b>Reproductive toxicity:</b>	orl-rat TDLo:700 mg/kg (18D post) itt-rat TDLo:400 mg/kg (1D male)
<b>RTECS Number:</b>	AF1225000

**12. ECOLOGICAL INFORMATION**

<b>Ecotoxicity:</b>	
<b>Fish:</b>	48h LC50:92 mg/L (Pimephales promelas) 96h LC50:88 mg/L (Pimephales promelas)
<b>Crustacea:</b>	48h EC50:65 mg/L (Daphnia magna)
<b>Algae:</b>	No data available
<b>Persistence / degradability:</b>	74 % (by BOD) , 100 % (by HPLC) , 100 % (by TOC)
<b>Bioaccumulative potential(BCF):</b>	No data available
<b>Mobility in soil</b>	
<b>Log Pow:</b>	-0.17
<b>Soil adsorption (Koc):</b>	6.5 - 228
<b>Henry's Law (PaM<sup>3</sup>/mol):</b>	0.01

**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. Observe all federal, state and local regulations when disposing of the substance.

**14. TRANSPORT INFORMATION**

<b>Hazards Class:</b>	8: Corrosive.
<b>Subsidiary risk:</b>	3: Flammable liquid.
<b>UN-No:</b>	2789
<b>Proper shipping name:</b>	Acetic acid, glacial
<b>Packing group:</b>	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.:** 2630

## 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.