ROSS CHEM COMPANY LIMITED.

Revision number: 1 **Revision date:** 09/05/2019 Page 1 of 5

Revision date: 09/05/2019

SAFETY DATA SHEET

1. IDENTIFICATION

Cyclohexanone Product name:

Company: ROSS CHEM COMPANY LIMITED

No. 227.NanYi Road, Dongying City, Shandong Province, China 257091 Address:

+86 546 8275057 Telephone: +86 546 8275058 Fax: info@rosschem.com e-mail: Web site: https://rosschem.com +86 546 8275057 **Emergency telephone:**

Revision number:

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS

Flammable liquids Category 3

HEALTH HAZARDS

Acute toxicity (Oral) **Acute toxicity (Dermal) Acute toxicity (Inhalation)** Skin corrosion/irritation Serious eye damage/eye irritation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Category 2

Specific target organ toxicity Liver Central nervous system Spleen

- Single exposure [Category 1]

Specific target organ toxicity

- Single exposure [Category 2] Specific target organ toxicity

- Single exposure [Category 3]

Specific target organ toxicity

- Repeated exposure [Category 1] **Aspiration hazard**

ENVIRONMENTAL HAZARDS

Label elements

Pictograms or hazard symbols



Signal word **Hazard statements**

Category 4 Category 3 Category 3 Category 2 Category 2A Category 2 Category 2

Lung

Respiratory tract irritation, Narcotic effects

Liver Kidney Central nervous system

Category 2 Not classified

Danger

Flammable liquid and vapour

Harmful if swallowed

Toxic in contact with skin or if inhaled

Causes skin irritation

Causes serious eye irritation

Suspected of causing genetic defects

Suspected of causing cancer

Suspected of damaging fertility or the unborn child

ROSS CHEM COMPANY LIMITED . Revision number: 1 Revision date: 09/05/2019 Page 2 of 5

Causes damage to organs: Liver Central nervous system

Spleen

May cause damage to organs: Lung

Causes damage to organs through prolonged or repeated

exposure: Liver Kidney Central nervous system

May cause respiratory irritation May cause drowsiness or dizziness

May be harmful if swallowed and enters airways

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.

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

Wash hands and face thoroughly after handling.

Wear protective gloves, protective clothing, face protection.

[Response] IF SWALLOWED: Immediately call a POISON CENTER or doctor. Do NOT induce

vomiting. Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor if you feel unwell. Take off immediately all 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 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. In case of fire: Use dry chemical, dry sand or foam to extinguish. 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:SubstanceComponents:CyclohexanonePercent:>99.0%(GC)CAS RN:108-94-1Chemical Formula:C6H10O

4. FIRST AID MEASURES

[Storage]

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, carbon dioxide.

Unsuitable extinguishing

media:

Water (It may scatter and spread fire.)

Fire-extinguishing work is done from the windward and the suitable Precautions for firefighters:

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 When extinguishing fire, be sure to wear personal protective equipment

for firefighters:

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:

Methods and materials for containment and cleaning

up:

Prevent product from entering drains.

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.

Comply with laws. Packaging material:

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls:

Install a closed system or local exhaust. Also install safety shower and eye bath.

Exposure limits:

20 ppm (skin) **ACGIH TLV(TWA):** ACGIH TLV(STEL): 50 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.

Safety goggles. A face-shield, if the situation requires. Eve protection:

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

Revision date: 09/05/2019 Page 4 of 5

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Liquid Clear

Colorless - Very pale yellow

Odour: Characteristic
Odour threshold: 0.88 ppm
pH: No data available

pH: No data available
Melting point/freezing point: No data available

Boiling point/range: 157°C **Flash point:** 44°C

Flammability or explosive

limits:

 Lower:
 1.1%

 Upper:
 9.4%

 Vapour pressure:
 500Pa/20°C

Vapour density: 3.4 Relative density: 0.95

Solubility(ies):

[Water] Soluble (8.7g/100mL, 20°C)

[Other solvents]

Soluble: Ether, Alcohols, Acetone

Log Pow: 0.81 **Autoignition temperature:** 420°C

10. STABILITY AND REACTIVITY

Chemical stability: Stable under proper conditions.

Possibility of hazardous No special reactivity has been reported.

reactions:

Conditions to avoid: Spark, Open flame, Static discharge Incompatible materials: Oxidizing agents, Reducing agents Carbon dioxide, Carbon monoxide

products:

Serious eye

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation:

Acute Toxicity: ihl-hmn TCLo:75 ppm

ihl-rat LC50:8000 ppm/4H orl-mus LD50:1400 mg/kg orl-rat LD50:1620 uL/kg skn-rbt 500 mg open MLD eye-rbt 250 ug/24H SEV

damage/irritation: eye-rbt 20 mg SEV

eye-hmn 75 ppm

Germ cell mutagenicity: mmo-bcs 200 uL/L (-S9) mmo-sat 20 uL/L (-S9) sce-ham-ovr 7500 uL/L

Carcinogenicity:

IARC = Group 3 (Not classifiable as carcinogenic to humans)

NTP = No data available

Reproductive toxicity: ihl-rat TCLo: 105 mg/m³/4H (1-20D preg)

RTECS Number: GW1050000

Revision date: 09/05/2019 Page 5 of 5

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Fish: No data available
Crustacea: No data available
Algae: No data available

Persistence / degradability: 87% (by BOD), 91% (by TOC), 100% (by GC)

Bioaccumulative No data available

potential(BCF): Mobility in soil

Log Pow: 0.81

Soil adsorption (Koc): No data available Henry's Law (PaM ³/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. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

Hazards Class: 3: Flammable liquid.

UN-No: 1915

Proper shipping name: Cyclohexanone

Packing group:

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.: 952

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

Emergency telephone: 86 546 8275057 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.