



Safety Data Sheet

According to GB/T 16483-2008 and GB/T 17519-2013

ECO CO® Contact Cleaner

Version 2.0

Issue date: 27/5/2022

Revision date: 11/07/2024

SDS Record Number: C5SS-TCO-010-153667

Section 1 Chemical Product and Company Identification

Chemical name: ECO CO® Contact Cleaner

Additional identification: Not available

Product code: PR02016CV

Identification of the product: See section 3

Relevant identified uses of the substance and uses advised against

Identified uses: Precision cleaner.

Uses advised against: Not available

Details of the supplier of the safety data sheet

Name: CRC Industries Trading (Shanghai) Co., Ltd.

Address: Room 2403, No. 488 South Wuning Road, Jingan District - 200042, Shanghai, PR China

Telephone: +86 21 6236 6035

Emergency telephone Number(24h): +86 532 83889090

Section 2 Hazards Identification

Emergency Overview: White, blue liquid, harmful if inhaled. Causes skin irritation. Causes serious eye irritation. Decomposes in a fire giving off toxic fumes: Carbon monoxide, Carbon dioxide.

GHS Classification:

| | | |
|------------------------------|---------------------------------------------------------|------------|
| Physical hazards | Aerosols | Category 1 |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Specific target organ toxicity (single exposure) | Category 3 |
| | Aspiration hazard | Category 1 |
| Environmental hazards | Hazardous to the aquatic environment - acute hazard | Category 2 |
| | Hazardous to the aquatic environment - long-term hazard | Category 2 |

Label elements

Pictogram:



Signal Word(s): Danger

Hazard Statement:

Extremely flammable aerosol
Pressurized container: may burst if heated
May be fatal if swallowed and enters airways
Causes skin irritation
May cause drowsiness or dizziness
Toxic to aquatic life with long lasting effects

Precautionary statement

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe dust/fume/gas/mist/vapours/spray.
Wash hands thoroughly after handling.



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| Response: | Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves. IF SWALLOWED: Immediately call a POISON CENTER/ doctor/... IF ON SKIN: Wash with plenty water and soap. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. Collect spillage. |
| Storage: | Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Dispose of contents/containers according to local regulations. |
| Disposal: | |
| Physical and chemical hazards: | Extremely flammable aerosol. Pressurized container: may burst if heated. The contents are under pressure. If the pressure tank is exposed to heat or flame, it may explode. When burning, it will produce gases harmful to human health. |
| Health Hazards: | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. |
| Environmental hazards: | Toxic to aquatic life with long lasting effects. |
| Other hazards: | This product has not been found to have other hazards which are outside the scope of GB30000.2-29. |

Section 3 Composition Information on Ingredients

Substance/Mixture/Article: Mixture

Ingredient(s):

| Chemical Name | CAS No. | Concentration (%) |
|--------------------|----------|-------------------|
| 2-methylpentane | 107-83-5 | 30-60% |
| 3-methylpentane | 96-14-0 | 30-50% |
| Carbon dioxide | 124-38-9 | 3-10% |
| 2,3-dimethylbutane | 79-29-8 | 1-10% |
| 2,2-dimethylbutane | 75-83-2 | 1-5% |

Undisclosed ingredients include: 1) non-hazard ingredients, and 2) ingredients which are below the cut-off value required by Section 3.3 of GB / T 17519.

Section 4 First Aid Measures

| | |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In case of inhalation: | Transfer to fresh air and keep comfortable for breathing. Get medical advice/attention immediately. |
| In case of skin contact: | Take off all contaminated clothing immediately. Wash skin with water/ shower. All contaminated clothing shall be washed before reuse. In case of skin irritation: Get medical advice/attention. |
| In case of eyes contact: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |



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| In case of ingestion: | Drink plenty of water. Call a POISON CENTER/doctor immediately. Rinse mouth. Do not induce vomiting. |
| Most important symptoms and effects, both acute and delayed: | May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. |
| To protect playing rescuer advice and the special hints to the doctor: | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |
| Indication of any immediate medical attention and special treatment needed: | Provide general supportive measures and treat symptomatically. In the event of shortness of breath, give oxygen. Keep the victim warm. Observe the patient. Symptoms may delay. |

Section 5 Fire-fighting Measures

Extinguishing agent

Suitable extinguishing media:

Dry chemical, alcohol resistant foam or carbon dioxide, water spray.

Unsuitable extinguishing media:

Avoid using DC water to extinguish fire, so as to avoid material splashes and fire spread.

Special hazards:

The contents are under pressure. If the pressure tank is exposed to heat or flame, it may explode. When burning, it will produce gases harmful to human health.

Special fire fighting methods and special protective actions for fire-fighters:

Firefighters should wear self-contained breathing apparatus, and wear full body fire service and extinguish fire in the windward direction. Remove the container from the fire to empty place as far as possible. Cool the container exposed to the fire with water and vent the vapors. Isolate the accident area, prohibit access to unrelated persons. Contain and handle fire water to prevent environmental pollution.

Section 6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Use suitable personal protective equipment. Provide good ventilation. Avoid generating and inhaling vapors. Avoid contact with skin and eyes. Evacuate unrelated persons. According to the liquid flow or vapor diffusion area of influence, designate warning area. Evacuate unrelated personnel from crosswind, upwind side.

Environmental precautions:

Avoid release to the environment. In case of leakage into drainage system / aquatic environment, notify local authorities. Take measures to prevent further releases or spills while ensuring safety. Prevent spills from entering water, sewer, basement or limited space.

Methods and materials for containment and cleaning up:

Eliminate all ignition sources (no smoking, flame, spark or flame in the adjacent area). Keep combustibles (wood, paper, oil, etc.) away from leakage. Stop the leak without danger. If the leak cannot be recovered, move the container to a safe and open area. Isolate the area until the gas is exhausted. Cover with plastic cloth to prevent diffusion. Absorb with vermiculite, dry sand or dry soil and then put it into a container. After product recovery, flush the leakage area with water.

Precautions to prevent the occurrence of secondary hazards:

Clean up spills immediately to prevent leaks again.

Section 7 Handling and Storage

Safe handling



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| Local and general ventilation: | Provide adequate ventilation. |
| Safety instructions: | Operators should follow the procedure and use the personal protective equipment recommended by the SDS section 8. |
| Precautions: | Keep away from open flames, hot surfaces and sources of ignition. In case of poor ventilation wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling and prohibit eating in the workplace. Handling products should be carefully unloading, to avoid damage to packaging and containers. |
| Storage | |
| Suitable storage conditions: | Store in correctly labelled containers. Keep container tightly closed, in a cool, well ventilated place. Protect from sunlight. |
| Incompatible materials: | Strong oxidant. |
| Safe packaging materials: | Keep it in the original container. |

Section 8 Exposure Controls / Personal Protection

| | |
|--------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational exposure limits: | According to GBZ2.1, Carbon dioxide (CAS#124-38-9) - PC-TWA=9000mg/m ³ 、PC-STEL=18000mg/m ³ ; |
| Biological limits: | No standard has been established. |
| Engineering controls: | Ensure adequate ventilation. Make sure the workplace is equipped with a safe place to shower, clean eyes and body, and place for safe care. |
| Personal protection equipment | |
| Respiratory protection: | If there is no engineering control or the vapor exceeds the limited exposure level, a canister respirator (with an organic vapor filter cartridge) approved by the American Institute of Occupational Safety and Health shall be used. The air needs to be monitored to determine the actual level of exposure of employees. |
| Hand protection: | Protective gloves. |
| Eye protection: | Wear chemical safety goggles. |
| Skin and body protection: | Wear appropriate protective clothing. |
| Hygiene measures: | Avoid contact with eyes. Wash hands after handling. Do not eat and drink in the workplace. |

Section 9 Physical and Chemical Properties

| | |
|---------------------------------------------------|----------------------|
| Appearance: | Transparent Aerosol |
| Odor: | Organic solvent odor |
| Odor threshold: | No data available |
| Molecular formula: | Not applicable |
| Molecular weight: | Not applicable |
| Melting point/freezing point (°C): | No data available |
| Boiling point, initial boiling point (°C): | 50.6°C |
| Density: | No data available |
| Relative density(H₂O=1): | 0.665 |
| Vapor pressure (20°C) (kPa): | 3502.8 hPa |
| Partition coefficient (n-octanol/water): | No data available |
| Solubility in water: | Insoluble |



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| Solubility in organic solvents: | No data available |
| Flash point (°C): | < -17.8°C |
| Auto-ignition temperature (°C): | 254°C |
| Flammability limit - lower (%): | No data available |
| Flammability limit - upper (%): | No data available |
| Decomposition temperature (°C): | No data available |
| Flammability (solid, gas): | No data available |
| Explosive properties | No data available |
| Explosive limit - lower (%): | 0.9% |
| Explosive limit - upper (%): | 36% |
| pH value: | Not applicable |
| Viscosity (mPa · S): | No data available |
| Relative vapor density (air=1): | >1 |
| Relative evaporation rate (n-butyl acetate=1): | No data available |

Section 10 Stability and Reactivity

| | |
|-------------------------------------|-------------------------------------------------------------|
| Stability: | Material is stable under normal conditions. |
| Possibility of hazardous reactions: | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid: | Incompatible materials. Keep away from fire and heat. |
| Incompatible materials: | Strong oxidant. |
| Hazardous decomposition products: | Carbon oxides. |

Section 11 Toxicological Information

| | |
|------------------------------------|-----------------------------------------------|
| Acute toxicity | |
| LD50(Oral, Rat): | Not available |
| LD50(Dermal, Rabbit): | Not available |
| LC50(Inhalation, Rat): | Not available |
| Skin corrosion/Irritation: | Causes skin irritation. |
| Serious eye damage/irritation: | Not classified |
| Respiratory or skin sensitization: | Not classified |
| Germ cell mutagenicity: | Not classified |
| Carcinogenicity: | Not classified |
| Reproductive toxicity: | Not classified |
| STOT- single exposure: | May cause drowsiness or dizziness. |
| STOT-repeated exposure: | Not classified |
| Aspiration hazard: | May be fatal if swallowed and enters airways. |

Section 12 Ecological Information

| | |
|--------------------------------|---------------|
| Ecotoxicity | |
| 2-methylpentane (CAS#107-83-5) | |
| LC50 (Fish, 96h) | Not available |
| EC50 (Daphnia, 48h) | 3.649 mg/L |
| EC50 (Algae, 72h): | 4.321 mg/L |



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Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Section 13 Disposal Considerations

Residual waste Recycling as much as possible. If recycling is not possible, use incineration methods for disposal. Do not dispose of this product by means of discharge to the sewer.

Contaminated packaging Empty containers or pads may retain some product residue, so beware of label warnings even when empty containers. These materials and their containers must be disposed of in a safe manner. Empty containers should be returned to the manufacturer or sent to a national / local approved waste disposal site.

Local disposal regulations Waste disposal should refer to the relevant national and local laws and regulations, the waste chemicals for recycling, or packed in sealed containers, to a special waste disposal sites.

Section 14 Transport Information

UN Number: UN1950

UN Proper shipping name: AEROSOLS

Transport hazard Class: 2.1

Packaging group: -

Marine pollutant (yes/no): Yes

Transport special precautions:

- Grounding chains should be equipped with tank or car during transportation, hole plate can be set in the tank to prevent static electricity generated by shaking;
- Exhaust pipe of the vehicle which transports this product shall be equipped with fireproofing equipment, Do not handle with the machinery or tools which may produce spark easily;
- Do not package or transport with oxidant, food chemicals or others;
- Prevent from sunlight exposure, rain and heat during transportation, in summer, best to transport in the morning or evening;
- Keep away from fire, heat source and high temperature when stops on the way;
- Follow the route as prescribed during highway transportation, do not stay in residential areas and densely populated area;
- Prohibit humping in railway transportation;
- Transport vehicles should be equipped with corresponding fire equipment and spill contingency processing equipment.

15.Regulatory Information

The following laws, regulations, rules and standards, provide corresponding provisions of the management of chemicals:

| Name | Relevant Inventories | Listed Or Not |
|------------------------------------------------------|---------------------------------------------------------------|---------------|
| Measures On Safety Management Of Hazardous Chemicals | Inventory Of Hazardous Chemicals | Listed |
| | The First Batch Of Key Regulatory List Of Hazardous Chemicals | Not listed |
| Measures On New Substance Environmental Management | The Inventory Of Existing Chemical Substance In China | Listed |



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| | | |
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| Provisions On Environmental Management Of First Import And Export Of Toxic Chemicals | China Strictly Restricted List Of Toxic Chemicals | Not listed |
|--------------------------------------------------------------------------------------|---------------------------------------------------|------------|

Section 16 Other Information

Indication of changes:

Version 1.0 Amended by GB/T16483 and GB/T 17519.

Abbreviations:

CAS: Chemical Abstracts Service

LC50: Lethal Concentration 50

EC50: Concentration for 50% of maximal effect

LD50: Lethal dose 50%

PC-TWA: time-weighted average allowable concentration, average allowable concentration in 8h working day, 40h work week.

PC-STEL: Short-Term Exposure Tolerance, the concentration allowed to be exposed in short-term (15 minutes).

IARC: International Agency for Research on Cancer

ACGIH: US Government Conference of Industrial Hygienists

ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods

EINECS: European Inventory of Existing commercial Chemical Substances

IATA: International Air Transport Association

ICAO-TI: International Civil Aviation Organization The International Civil Aviation Covenant

Disclaimer:

The information in this Safety Data Sheet (SDS) applies only to the products specified and does not apply to mixtures containing this product with other substances, unless otherwise specified. This Safety Data Sheet (SDS) is based on information currently available in all its aspects and will not be held responsible for its long-term timeliness. This Safety Data Sheet (SDS) provides information about the safety of the product for the intended purpose only to appropriately trained personnel operating the product. Users of this SDS must make independent judgments on the suitability of this SDS for special conditions of use. Under special conditions of use, the SDS author will not be responsible for the damage caused by the use of this Safety Data Sheet (SDS). Each user of the product should read carefully the contents of this Safety Data Sheet (SDS) before proceeding. For more information to ensure correct evaluation, please contact the product supplier.