



Material Safety Data Sheet

GX60

Company/Undertaking Identification

Guangzhou Plant Chain Beauty Technology Co., Ltd.

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Telephone +86-020-31477707

Emergency telephone number

Plant Chain: Tel. +86-020-31477707

Manufacturer

Shanghai Zhongxiang Fine Chemical Co., Ltd

Address: Building 3,276, Lane 705, Nanxiang Town, Jiading District, Shanghai

Contact number: 021-59250006

Emergency contact number: 021-59250006

Part 1: Component identification

Trade name: GX60

INCI name:CETRIMONIUM CHLORIDE

Part 2: INGREDIENTS/INFORMATION ON INGREDIENTS

INCI name	CAS No.	%
CETRIMONIUM CHLORIDE	112-02-7	28.0-32.0
WATER	7732-18-5	68.0-72.0

Part 3: Hazard Identification

Hazard category: No data available



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UN ID: No information available

Invasion pathway: inhalation, ingestion, percutaneous absorption.

Health hazards: May cause serious eye irritation and potential harm. Causes irritation to the skin and respiratory tract.

Inhalation: Causes respiratory irritation

Ingestion: May cause irritation to the digestive tract. May be harmful if swallowed

Skin contact: has a degreasing effect on the skin

Eye contact: Has serious harm. May result in severe eye irritation

Chronic: The impact may be delayed

Environmental hazard: This product is considered as a powerful water pollutant, which is highly toxic to aquatic organisms.

Explosion hazard: No data available.

Part 4: First Aid Measure

Skin contact: Immediately remove contaminated clothing and rinse continuously with plenty of water for at least 15-20 minutes. If no burns occur, wash the skin with soap and water. Seek medical attention. Contaminated clothing needs to be washed before reuse.

Eye contact: Remove any contact lenses and open the eyelids as much as possible. Immediately rinse with plenty of water for at least 15-20 minutes. If the stimulation persists, continue rinsing during the hospital visit. Seek medical attention.

Inhalation: Quickly move to fresh air. Maintain unobstructed respiratory tract. If breathing is difficult, administer oxygen. If breathing stops, perform artificial respiration.

Ingestion: Rinse your mouth immediately and drink plenty of water. Do not induce vomiting unless performed by medical personnel. Do not give anything orally to an unconscious person. Seek medical attention immediately.

Doctor's note: Actively treat according to symptoms.

Part5: Fire protection measures



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Hazard characteristics: No data available.

Harmful combustion products: Gases (HCl, nitrogen oxide NO_x) that may form harmful to health during fires.

This product can cause dust explosion when it has sufficient quantity and proper particle size.

Fire extinguishing method and extinguishing agent: In case of fire, wear a positive pressure self-contained breathing device and a complete set of protective equipment approved by MSHA/NIOSH or equivalent. Use foam, carbon dioxide, dry powder and water mist to extinguish the fire.

Part 6: Accidental release measures

Personal precautions: Use appropriate protective clothing and equipment. Avoid inhaling vapor mist and coming into contact with skin and eyes

Environmental protection measures: Do not allow discharge to sewers, drainage ditches, or the ground.

Cleaning method: After cleaning with absorbent materials, collect and place in an appropriate disposal container. Ensure good ventilation.

Large spill: Use sand, sawdust, or other absorbent materials to intercept and absorb the leaked material.

Small spill: Use suitable absorbent materials to absorb the spill. Flush contaminated areas with a large amount of water

Emergency response: Cut off the source of leakage as much as possible. Evacuation area: Wear appropriate personal protective equipment.

Ventilation area: Use inert materials such as vermiculite and sand to absorb leaks, clean them up, and store them in appropriate containers for disposal. Rinse contaminated surfaces to remove debris.

Part 7: Handling and storage

Permissible concentration: No data available

Monitoring method: No data available

Engineering control: Places where this product is stored or used should be equipped with eye washers and safety shower facilities. Use good ventilation to minimize the concentration of this product in the air.

Hygiene measures: Do not eat, drink, or smoke when using. Wash hands after contact.

Eye/face protection: Wear chemical goggles and masks.

Body protection: Wear appropriate protective clothing to prevent skin contact.

Hand protection: Wear appropriate protective gloves to prevent skin contact



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Other protections: No data available.

Part 8: Exposure control and personal protection

Precautions for operation: Strengthen ventilation. Do not let the material get into the eyes and avoid contact with the skin. It is recommended that operators wear appropriate protective clothing as needed, including protective gloves, shoes, work clothes, and other protective equipment. Thoroughly clean after treatment. Remove contaminated clothing and wash clothes before reuse.

Storage precautions: This product should be stored in a closed container, in a cool, dry, well ventilated area, away from prohibited substances. It is only stored together with coexisting chemicals. Protect against moisture. The storage area should be equipped with emergency response equipment for leaks and suitable storage materials.

Other precautions: Water supply and eye washing facilities can be easily used. Do not store near heat sources or in contact with excessively high temperatures.

Part 9: Physical and chemical information

appearance	Colorless transparent liquid
colour	Colorles
odour	characteristic
pH	4.0-7.0(1% aqueous solution.)
melting point℃	No
boiling point℃	No
Upper/lower flammability or explosive limits	No
Vapor pressure	33 mmHg at 20℃
Solubility	water-solubility
relative density	No
Flash point ℃	No
molecular formula	C ₁₉ H ₄₂ ClN
Viscosity	No



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relative molecular mass	320.0005
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Part 10: Stability and reactivity

Stability: It is stable to store in a sealed container at room temperature under normal storage and processing conditions.

Prohibited substances: Strong oxidizing substances

Conditions to avoid contact: heat, exposure to humid air or water

Aggregation: cannot occur

Hazardous decomposition products: Proper storage and operation will not occur. If heated to over 200 °C, the following substances will be released: alkyl chlorides, amine substances. It may decompose into hydrogen chloride, nitrogen oxides, carbon monoxide, and carbon dioxide.

Part 11: toxicological information

Acute toxicity: CAS #: 112-02-7: Skin, Rabbit: LD50=4300 uL/kg/24h

Subacute and chronic toxicity: Irritating to the skin and mucous membranes, as well as strong irritation to the eyes

Inhalation: Inhaling aerosols may cause irritation to the respiratory system.

Skin contact: has a degreasing effect on the skin

Eye contact: Risk of serious eye damage. First aid is necessary

Ingestion: Harmful if swallowed. May cause nausea, stomach pain, and vomiting. Specific impact: None.

Mutagenicity: No data available

Carcinogenicity: CAS # 112-02-7: ACGIH, IARC, NIOSH, NTP, or OSHA not listed

Teratogenicity: No information available.

Part 12: Ecological information

Ecological toxicity: Highly toxic to aquatic organisms.

Alkyltrimethylammonium chloride ($0.001 < EC_{50} \text{ value} \leq 0.01 \text{ mg/L}$):



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LC50 (fish, 96 hours): 1,2 mg/L (OECD test guideline 203)

Fish: zebrafish, 96 hours: half lethal concentration (LC50) 0.7 mg/L

EC50 (Daphnia magna, 48 hours): 0.03 mg/L (OECD Test Guideline 202)

IC50 (Pseudokirchneriella subcapitata, 72 hours): 0.008 mg/L (OECD Test Guideline 201)

Biodegradability: This product is easily biodegradable, about 70% (FeF Chemical A/S Company, 1993)

Bioaccumulation or bioaccumulation: expected not to be bioaccumulated

Liquidity: This product is soluble in water and may spread in the water system.

Note: This product is considered a powerful water pollutant and is not allowed to enter soil, rivers, or sewage networks.

Part 13: Disposal precautions

Waste disposal method: The disposal of waste must be carried out in accordance with relevant regulations of the local government, such as the "Chemical Hazardous Materials Safety Management Regulations" issued by the Chinese government in 1987 and US federal regulations (40CFR261, 262, 263, 264). Chemical incinerators equipped with afterburner and scrubber are used for incineration.

Part 14: Transportation information

Dangerous goods number: 8

UN Number: 1759

Packaging mark: Corrosive product, black on top and white on bottom

Packaging category: Class III packaging

Packaging method: 50kg plastic bucket

Transportation precautions: During transportation, it is necessary to prevent exposure to sunlight, rain, and high temperatures. When stopping midway, one should stay away from sparks, heat sources, and high temperature areas.

Land/Road/Railway: No restrictions

Inland waterways: unrestricted





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Sea freight: unlimited

Aviation: unlimited

Part 15: Regulatory information

The Regulations on the Safety Management of Hazardous Chemicals (issued by the State Council on February 17, 1987) have made corresponding provisions for the safety production, use, storage, transportation, loading and unloading of hazardous chemicals.

The recipient should have the responsibility to understand relevant national or local laws and regulations

EC classification

Label name: CETRIMONIUM CHLORIDE, not classified as a hazardous substance according to EU standards

Danger symbol: XN N

National regulations: listed in the TSCA directory: Yes

Listed in non DSL directory: Yes

Listed in AICS directory: unknown

In the directory of provinces of production and commerce: existing in the existing chemical list

List of High Production Representatives (OECD HPV)

List of Existing Chemical Substances in China

This chemical safety technical manual complies with the following relevant national standards:

GB16483-2000, GB13690-1992, GB6944-1986, GB/T15098-1994, GB18218-2000, GB15258-2000,

GB6944-86, GB190-90, GB191-90, GB12268-90, GA57-93, GB/T 15098-94, GBZ 2-2002, and related

regulations: "Management Rules for the Transport of Dangerous Goods" (issued by the Ministry of Railways in 1995)

Regulations on the Safety Management of Hazardous Chemicals (promulgated by the State Council in 2002)

United Nations Recommendation on the Transport of Dangerous Goods (UN RTDG)

Part 16: Other information

The above information is believed to be correct, but it is not claimed to be all-inclusive and should be used only



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as a guide. It is provided without any guarantee. It is the user's responsibility to observe and comply with the applicable products or information mentioned here.