


Material Safety Data Sheet		
Polyquaternium-10		
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## 1. Chemical Product and Company Identification

**INCI name:** Polyquaternium-10

**CAS No.:** 68610-92-4

**Chemical structure:**  $(C_2H_4O)_n \cdot C_6H_{16}NO_2 \cdot xCl$  (x unspecified)

**Trade name:** Yeser® PQ-10

**Product application:** Mainly used as a conditioning agent in hair & skin care products

**Supplier name:** GUANGZHOU YESER CHEMICALS CO., LTD

**Supplier address:** Room 903-05, Building E, Longxi Center, No.18 Qide Road, Guangzhou City, China

**Website:** yeserchem.com **E-mail:** info@yeserchem.com

**Contact number:** +86-20- 86213761 400-0768-668

**Emergency contact number:** +86-20- 86213761

## 2. Hazards Identification

**Hazard Information:** Not available.

**Primary routes of exposure:** Eye, Skin

**Possible Health Effects:**

### Acute

**Eyes:** May cause irritation with prolonged contact.

**Skin:** May cause irritation with prolonged contact.

**Inhalation:** Not a likely route of exposure. Dust may cause irritation of the respiratory tract.

**Ingestion:** Not a likely route of exposure. There may be irritation to the gastro-intestinal tract.

### Chronic

**Eyes:** Immediately flush eye with water for at least 15 minutes while holding eyelids open.


If symptoms develop, seek medical advice.

**Skin:** Immediately wash with plenty of soap and water. If symptoms develop, seek medical advice.

**Inhalation:** Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

**Ingestion:** Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink.

**Note to physicians:** Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

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### 3. Composition/Information on Ingredients

Component	CAS NO.	Percentage %
Polyquaternium-10	68610-92-4	100

### 4. First aid Measures

**Eyes:** Immediately flush eye with water for at least 15 minutes while holding eyelids open.

If symptoms develop, seek medical advice.

**Skin:** Immediately wash with plenty of soap and water. If symptoms develop, seek medical advice.

**Inhalation:** Remove to fresh air, treat symptomatically. If symptoms develop, seek medical advice.

**Ingestion:** Get medical attention. Do not induce vomiting without medical advice. If conscious, washout mouth and give water to drink.

**Note to physicians:** Based on the individual reactions of the patient, the physician's judgement should be used to control symptoms and clinical condition.

### 5. Fire-fighting Measures

**Flash point:** Not available.

**Extinguishing Media:** Foam, Carbon dioxide, Dry powder, Other extinguishing agent suitable for Class B fires, for large fires, use water spray or fog, thoroughly drenching the burning material. Water mist may be used to cool closed containers.


**Special Fire Fighting Procedures:** In case of fire, wear a full face positive-pressure self-contained breathing apparatus and protective suit.

**Hazardous Combustion Products:** May form explosive dust-air mixtures. Handling operations may generate combustible dust in the finely divided and suspended state. To reduce the potential for dust explosions and/or fire, do not permit dust to accumulate. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition. May evolve oxides of carbon (COx) under fire conditions. May evolve oxides of nitrogen (NOx) under fire conditions.

**Flammability Hazard Class:** 1=Slight.

### 6. Accidental Release Measures

**Personal Precaution:** Restrict access to area as appropriate until clean-up operations are complete. Use personal protective equipment recommended in Section 8 (Exposure Controls/Personal

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Protection). Stop or reduce any leaks if it is safe to do so. Ventilate spill area if possible. Remove sources of ignition.

**Environmental Precautions:** Do not contaminate surface water.

**Methods for clean-up:** Sweep up and shovel. Reclaim into recovery or salvage drums. Dispose of material in compliance with local regulations. Water in contact with the product will cause slippery floor conditions.

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## 7. Handling and storage

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**Handling:** Do not get in eyes, on skin, on clothing. Do not take internally. Use with adequate ventilation. Avoid generating dusts. Maintain good housekeeping practices. Keep the containers closed when not in use. Ensure all containers are labeled. Empty product containers may contain product residue. Do not pressurize, cut, heat, weld, or expose containers to flame or other sources of ignition. Do not use, store, spill or pour near heat, sparks or open flame.

**Storage Conditions:** Store in suitable labeled containers. Store the containers tightly closed. Store separately from oxidizers. Keep in dry place. Store away from heat and sources of ignition. Connections must be grounded to avoid electrical charges.

**Unsuitable Packaging Materials:** Compatibility with Plastic Materials can vary. It's recommended that compatibility is tested prior to use.

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## 8. Exposure controls/personal protection

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**Engineering control:** General ventilation is recommended. Local exhaust ventilation may be necessary when dusts or mists are generated.

**Respiratory protection:** Respiratory protection is not normally needed. Where concentrations in air may exceed the limits given in this section, the use of a nuisance dust mask is recommended.

**Eye protection:** When handling this product, the use of safety glasses with side shields is recommended.

**Hand protection:** When handling this product, the use of chemical gloves is recommended. The choice of work glove depends on work conditions and what chemicals are handled. Please contact the PPE manufacturer for advice on what type of glove material may be suitable. Gloves should be replaced immediately if signs of degradation are observed.

**Skin protection:** Wear standard protective clothing. See general advice.


Hygiene Recommendations: Use good work and personal hygiene practices to avoid exposure. Consider the provision in the work area of a safety shower and eyewash. Always wash thoroughly after handling chemicals. When handling this product never eat, drink or smoke.

**Change/Removal Of Clothing:** Remove contaminated clothing and launder before reuse.

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## 9. Physical and chemical properties

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**Appearance:** Yellowish powder

**pH value (2% aqueous solution, 25°C):** 4.0~7.0

**Viscosity (2% aqueous solution, mPa•s, 25°C):** 300~500

**Nitrogen content (%):** 1.5~2.2

**Loss on drying (%):** ≤8.0

## 10. Stability and reactivity

**Stability:** This product is stable when stored and used at normal ambient temperature.

**Hazardous polymerization:** Hazardous polymerization will not occur.

**Conditions to avoid:** Avoid extremes of temperature. Moisture Heat and sources of ignition including static discharges. Avoid generating dusts.

**Materials to avoid:** Contact with strong oxidizers (e.g., chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors.

**Hazardous decomposition products:**

**Under fire conditions:** Oxides of carbon, Oxides of nitrogen.

## 11. Toxicological information

**Sensitization:** This product is not expected to be a sensitizer.

**Carcinogenicity:** None of the substances in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the American Conference of Governmental Industrial Hygienists (ACGIH).

**Other Health Hazard Information:** None known applicable information.

## 12. Ecological information

No toxicity studies have been conducted on this product.

**Bioaccumulation potential:** This preparation or material is not expected to bio accumulate.

**Biodegradability:** This product is biodegradable.

## 13. Disposal considerations

**Product Disposal:** Dispose of in accordance with local regulations.

**Packaging Disposal:** Dispose of in accordance with local regulations.


## 14. Transport information

**Road and Rail Transport:** Not assessed.

**Sea Transport (IMDG):** Not subject to IMDG code.

**Air Transport (ICAO):** Not subject to ICAO regulations.

## 15. Regulatory Information

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**Applicable Laws:** Provisions of the Regulations for the Safe Handling of Chemicals in the Workplace, particularly those relating to the safe use, production, storage and transportation of dangerous chemicals.

**Chemical Inventories:**

**AICS:** All ingredients listed or exempt.

**DSL:** All chemical substances in this material are included on or exempted from the DSL.

**IECSC:** All ingredients listed or exempt.

**MITI:** All components are listed on ENCS or its exempt rule.

**KECL:** All ingredients listed, exempt or notified.

**EINECS:** All ingredients listed or exempt.

**PICCS:** All ingredients listed or exempt.

**TSCA:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

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**16. Other Information**

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**Writing and revising information**

**Date originally compiled:** August 18, 2017

**Date of first revision:** September 12, 2020

**Date of second revision:** March 5, 2022

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IMPORTANT: while the descriptions, designs, data and information contained herein are presented in good faith and believed to be accurate, it is provided for your guidance only. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No warranties of any kind, either expressed or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding products described or designs, data or information set forth, or that the products, designs, data or information may be used without infringing the intellectual property rights of others. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale. Further, you expressly understand and agree that the descriptions, designs, data, and information furnished by our company hereunder are given gratis and we assume no obligation or liability for the description, designs, data and information given or results obtained, all such being given and accepted at your risk.

END OF DATA SHEET