

MATERIAL SAFETY DATA SHEET

Polyquaternium-10

1. PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: Cationic Conditioner Polymer, NatiFlex™ HF100, NatiFlex™ HF400, NatiFlex™ HF400L, NatiFlex™ HF3000, NatiFlex™ HF3000L

Chemical Name: Polyquaternium-10

Chemical Formula: Not available

Company Name: Yangzhou Joyvo Weikem Biology Co.,Ltd

Company address: No35. Dingxing Road, Guangling District, Yangzhou Jiangsu, 225004, P.R. China.

Date MSDS Prepared: 2018/07/01

2. COMPOSITION AND INFORMATION ON INGREDIENTS

Ingredient Name	CAS No.	Typical weight %
Polyquaternium-10	68610-92-4	>98%

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: Not available.

MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available.

DEVELOPMENTAL TOXICITY: Not available.

Repeated or prolonged exposure is not known to aggravate medical condition.

4. FIRST AID MEASURES

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact:

Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream.

Seek immediate medical attention.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult,

give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

5. FIRE FIGHTING MEASURES

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: These products are carbon oxides (CO, CO₂), nitrogen oxides (NO,NO₂...).

Fire Hazards in Presence of Various Substances:

Slightly flammable to flammable in presence of heat.

Non-flammable in presence of shocks.

Explosion Hazards in Presence of Various Substances:

Slightly explosive in presence of open flames and sparks.

Non-explosive in presence of shocks.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder.

LARGE FIRE: Use water spray, fog or foam.

Special Remarks on Fire Hazards: As with most organic solids, fire is possible at elevated temperatures

Special Remarks on Explosion Hazards:

Fine dust dispersed in air in sufficient concentrations, and in the presences of an ignition source is a potential dust explosion hazard.

6. ACCIDENTAL RELEASE MEASURES

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

7. HANDLING AND STORAGE

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area.

Sensitivity to Static Electricity: Yes

Sensitivity to Mechanical Impact: No

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection:

Splash goggles. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance: Solid (Powdered solid) or Liquid

Odor: Characteristic

Taste: Not available.

Color: Off white to yellow.

pH (1% Water Solution): 5.0-7.0

Boiling Point: Not available.

Melting Point: Not available.

Critical Temperature: Not available.

Specific Gravity: Density: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: See solubility in water.

Solubility: Easily soluble in water. Insoluble in organic solvents

10. STABILITY AND REACTIVITY

Stability: Stable under normal storage and handling conditions.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials, dust generation

Incompatibility with various substances: Strong oxidizing agents

Corrosivity: Not available.

Polymerization: Will not occur.

11. TOXICAL INFORMATION

Routes of Entry: Inhalation. Ingestion

Chronic Effects on Humans: Not available

Other Toxic Effects on Humans: Very Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation

Special Remarks on Toxicity to Animals: Not available

Special Remarks on Chronic Effects on Humans: Not available

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects:

Skin: It may cause skin irritation. However, no information regarding skin irritation was found.

Eyes: It may cause eye irritation. However, no information regarding eye irritation was found.

Inhalation: May cause respiratory tract irritation.

Ingestion: No information regarding ingestion toxicity was found.

The toxicological properties of this substance have not been fully investigated.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Not available

BOD5 and COD: Not available

Products of Biodegradation: Not available

Toxicity of the Products of Biodegradation: Not available

Special Remarks on the Products of Biodegradation: Not available

13. DISPOSAL CONSIDERATION

Waste Disposal:

Waste must be disposed of in accordance with national and local environmental control Regulations

14. TRANSPORT INFORMATION

DOT Classification: Not a DOT controlled material.

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Suggestion according to IATA DGR: The substance is not subject to IATA DGR.

15. REGULATORY INFORMATION

Federal and State Regulations: No products were found.

Other Regulations: Not available.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

Not available

S24/25- Avoid contact with skin and eyes.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

p. 5

Specific hazard:

Protective Equipment:

Gloves.

Lab coat.

Dust respirator. Be sure to use an

approved/certified respirator or

equivalent.

Splash goggles.

16. Other INFORMATION

Not available