

MATERIAL SAFETY DATA SHEET

1. Material / Preparation and company name

1.1. Identification of substance or preparation Trade name or designation of mixture

PUROLEX UltraMix, UltraMix +

Polystyrene sulphonic acid / Polyvinyl benzyl trimethyl ammonium hydroxide

1.2. Use of the substance / preparation

Ion exchange, Adsorbent, and/or catalyst

1.3. Company undertaking Identification

Advice technical , Neoktista, Aspropyrgos 19 300, Greece,
Tel.: +30-210-5593416

Fax: +30-210-5593417

Name of manufacturer:

Martin (HK) International Limited (China)

No.102, Building 5, Shenglong rd, Jiu Ting SongJiang distr.,
Shanghai, China, PC: 201615

Tel. +86-21-37820670

Fax.+86-21-27820673

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2. Hazards identification

WARNING!

(H319) Contact with eyes: causes serious eye irritation

Contact with skin: Causes mild skin irritation

Environmental hazard: May change the pH of receiving
waters in case of major spillage

This mixture is classified as dangerous according to
Directive 1999/45/EC

3. Composition / information on ingredients

Ingredient	Concentration	CAS Number	Hazard Statement	R Phrases	Hazard Pictogram	Symbol
Polystyrene sulphonic acid	20-30%	69011-20-7	H319	R36	GH07	Xi
Polyvinyl benzyl trimethyl ammonium hydroxide	15-30%	69011-18-3	H319	R36	GH07	Xi
Water	40-65%	7732-18-5	-	-	-	-

4. First aid measures

- Skin contact: Remove product mechanically. Rinse skin with a lot of water.
- Eye contact: Rinse open eyes with a lot of water. Seek medical attention.
- Inhalation: remove patient to fresh air. Seek medical advice.
- Ingestion: Rinse mouth and drink a lot of water. Seek medical attention.

5. Fire fighting Extinguishing agents

CO₂ foam, extinguishing powder, in case of big fires use waterspraybeam. During fire fighting wear respirator with independent oxygen supply.

6. Accidental release measures

- Personal precaution:
- Keep people away
- Spillage causes slippery surface
- Environmental precaution:
- Do not allow to enter public sewers or watercourses
- Methods of cleaning up:
- Sweep up as much as possible and transfer to plastic

	containers for recovery or disposal
7. Handling and storage	<ul style="list-style-type: none"> - Storage temperature between 5°C and 40°C. - Prevent of drying. Apply protection measures against electrostatic loading according to the equipment, handling and packaging of the product. Static loading lets the Material form into a ball. - Sufficient ventilation necessary.
8. Exposure controls / personal protection	<ul style="list-style-type: none"> - Eye protection: protective glasses - Hand protection: protective gloves (rubber or PVC) - Follow the common safety measure with handling chemicals. Change dirty cloths. Wash hands before breaks and end of work.
9. Physical and chemical properties	<ul style="list-style-type: none"> - Form: UltraMix, UltraMix+ H+/OH- , - Color: light yellow to brown - Smell: light smell - Density: 1.06 – 1.11 g/ml - Apparent density: 0.66 – 0.74 g/ml - Solubility: insoluble in water and organic solvents
10. Stability and reactivity	<ul style="list-style-type: none"> - Thermal decomposition: no thermal decomposition in case of appropriate handling and storage. - Dangerous decomposition products: decomposition products may include monomers , residual organics, amines, carbon, sulphur and nitrogen oxides - Dangerous reaction: with strong oxidizing agents are dangerous reactions possible. No dangerous reactions if used appropriate.
11. Toxicological information	No evidence
12. Ecological information	On available data mixture is not harmful to aquatic life
13. Disposal consideration	<ul style="list-style-type: none"> - According to the local regulations (e.g. controlled burning). - The mixture as delivered is non-hazardous waste - Unclean package materials must be treated like a product itself.
14. Transport information	Mixture as supplied is not classified as a dangerous good for transport by sea, road, rail and air.
15. Regulatory information	<ul style="list-style-type: none"> - Mixture as supplied is not classified as a hazardous product - Causes eyes irritation - Causes mild skin irritation
16. Additional information	Keep separate from food