

# 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

[www.mhkintl.com](http://www.mhkintl.com)

## 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

CO<sub>2</sub> 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

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

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