



## MATERIAL SAFETY DATA SHEET

### SECTION I – PRODUCT IDENTIFICATION

**PRODUCT NAME** : PHIX  
**CHEMICAL NAME** : N/AP  
**SYNONYMS** : N/AP  
**PRODUCT USE** : Chemical water softening agent.  
**MANUFACTURER** : **Keytech Water Management**  
174-3380 Sheridan Drive Amherst, NY 14226  
1-800-265-2772

**EMERGENCY PHONE NUMBER (24 HOURS)** Canutec (613) 996-6666

### SECTION II – PREPARATION OF MSDS

**PREPARED BY** : MSDS Committee  
**REVIEW DATE** : **May 1, 2014**  
**PRINT DATE** : June 12, 2014

### SECTION III – REGULATORY INFORMATION

**WHMIS CLASSIFICATION** : not classified  
**DOT SHIPPING NAME** : not regulated  
**CLASS:** N/AP **P.I.N.:** N/AP **PACKING GROUP:** N/AP  
**HMIS** **Health:** 1 **Fire:** 0 **Reactivity:** 0 **Personal Protection:** b

### SECTION IV – HAZARDOUS INGREDIENTS

<u>INGREDIENTS</u>	<u>% BY WT</u>	<u>CAS REGISTRY #</u>	<u>HAZARD DESCRIPTION(LD50/LC50)</u>
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>2000 mg/kg (oral, rat)

The remaining components are not hazardous according to WHMIS classification or are below the required concentration for disclosure.



## SECTION V – PHYSICAL DATA

<b>APPEARANCE</b>	: Colorless beads.		
<b>ODOR &amp; ODOR THRESHOLD</b>	: Odorless		
<b>SOLUBILITY IN WATER (% w/w)</b>	: Soluble		
<b>PHYSICAL STATE</b>	: Solid	<b>pH (10 g/L)</b>	: 7.0
<b>BOILING POINT (°F)</b>	: 800°C	<b>SPECIFIC GRAVITY</b>	: N/AP
<b>FREEZING POINT (°F)</b>	: N/D	<b>VAPOR PRESSURE</b>	: N/AP
<b>BULK DENSITY</b>	: 1300 kg/m <sup>3</sup>	<b>VAPOR DENSITY (AIR = 1)</b>	: N/AP
<b>% VOLATILES BY VOLUME</b>	: N/D	<b>EVAPORATION RATE</b>	: N/AP

## SECTION VI – FIRE AND EXPLOSION DATA

<b>FLASH POINT &amp; METHOD</b>	: None, not flammable
<b>AUTO-IGNITION TEMPERATURE (°F)</b>	: N/AP
<b>FLAMMABLE LIMITS IN AIR (% BY VOLUME)</b>	<b>UPPER</b> : N/AP <b>LOWER</b> : N/AP
<b>EXTINGUISHING MEDIA</b>	: Use appropriate media for surrounding fire.
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	: Use NIOSH approved self-contained breathing apparatus. Remove storage containers from fire zone if possible. Use water to cool containers.
<b>FIRE &amp; EXPLOSION HAZARDS</b>	: Aqueous solutions or powders that become wet produce extremely slippery conditions.

## SECTION VII – HEALTH HAZARDS

<b>EYE CONTACT</b>	: Moderately irritating.
<b>SKIN CONTACT</b>	: Not an irritant.
<b>SKIN ABSORPTION</b>	: N/AV
<b>INGESTION</b>	: None anticipated.
<b>INHALATION</b>	: None anticipated.
<b>EXPOSURE LIMIT</b>	: General dust exposure limit German TRGS 900 (2006) 3 mg/m <sup>3</sup> measured as alveolic part. Also see section IV.
<b>CARCINOGENICITY</b>	: Not listed as a carcinogen. Not expected to have mutagenic or reproductively toxic effects on humans.
<b>SYNERGISTIC MATERIALS</b>	: None known.

## SECTION VIII – REACTIVITY DATA

<b>INSTABILITY</b>	: Stable under normal conditions of use and storage.
<b>INCOMPATIBILITY</b>	: None known.
<b>HAZARDOUS REACTIONS</b>	: None known.
<b>HAZARDOUS DECOMPOSITION</b>	: None known.
<b>HAZARDOUS POLYMERIZATION</b>	: Will not occur.



## SECTION IX – EMERGENCY AND FIRST AID PROCEDURES

- EYE CONTACT** : Check for and remove contact lenses. Flush with water for a minimum of 15 minutes, holding eyelids open. If irritation persists, repeat flushing. Obtain medical attention immediately.
- SKIN CONTACT** : Wash with mild soap and water. Flush with water for at least 15 minutes. Remove contaminated clothing and shoes while flushing and wash before reuse. If irritation continues, repeat flushing. Obtain medical attention if irritation persists.
- INHALATION** : Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. If breathing is difficult, give oxygen. Obtain medical attention immediately.
- INGESTION** : Do not induce vomiting. Give 1 to 2 glasses of water to dilute the material if the victim is alert and not convulsing. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus. Rinse mouth and administer more water. Obtain medical attention immediately.
- SPECIAL MEASURES** : None.

## SECTION X – PREVENTIVE MEASURES

### – PERSONAL SAFETY –

- EYE PROTECTION** : Wear safety glasses. Avoid contact with eyes.
- SKIN PROTECTION** : Wear chemical resistant gloves. Rubber, neoprene or PVC should be impervious under conditions for use. Skin contact should be prevented through the use of suitable protective clothing selected for conditions of use and exposure potential. Wash hands after handling.
- RESPIRATORY PROTECTION** : Use a dust mask when there is insufficient ventilation.
- ENGINEERING CONTROLS** : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. Ensure eye wash stations and safety showers (or deluge hose) are proximal to the workstation location.

### - GENERAL SAFETY -

## Emergency Response Plan - Guide # 154

- SPILL & WASTE DISPOSAL** : Ventilate area. Block potential routes to water systems. Collect spilled beads mechanically. Do not use water. Disposal must meet all federal, state, and local regulations.
- HANDLING & STORAGE** : Aqueous solutions or powders that become wet produce extremely slippery conditions. Prevent formation of dusts. Store in a cool, dry, well ventilated location away from incompatible materials. Protect from freezing. Keep in original container. Keep container tightly closed.
- SHIPPING INFORMATION** : See section III, TDG Classification

**NOTICE:** While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Keytech Water Management makes no warranty with respect thereof and disclaims all liability from reliance thereon.

N/AP = not applicable    N/AV = not available    N/D = not determined