



# PMC WATER SYSTEMS SERVICES INC.

124 CONNIE CRES. UNIT 9 CONCORD, ONTARIO.

TEL 905 669 8262, FAX 905 669 8252, EMAIL pmcwater@aol.com, www.pmcwatersystems.com

## MATERIAL SAFETY DATA SHEET R-111 & R-112 HARDNESS INDICATOR

**Protection Required**



### MATERIAL IDENTIFICATION AND USE

**Manufacturer's Name** : PMC Water Systems Services Inc.  
**Manufacturer's Address** : 124 Connie Crescent, Unit 9, Concord, ON L4K 1L7  
**Manufacturer's Phone #** : (905) 669-8262  
**24 Emergency Phone #** : Canutec (613) 996-6666  
**Product Identifier** : R-111 and R-112  
**Product Use** : Test Reagent  
**WHMIS Class** : Not Regulated  
**TDG Class** : Not TDG Regulated

### HAZARDOUS INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD <sub>50</sub>	LC <sub>50</sub>
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None of the ingredients are classified as hazardous according to the DSL.

### PHYSICAL DATA FOR PRODUCT

**Physical State** : Liquid  
**Odour and Appearance** : None  
**Odour Threshold** : No Data Available  
**Specific Gravity (Water = 1)** : 1.6 g/cc  
**Vapour Pressure (mmHg)** : Not Applicable  
**Vapour Density (Air = 1)** : Not Applicable  
**Evaporation Rate** : No Data Available  
**Boiling Point** : Not Applicable  
**Freezing Point** : No Data Available  
**pH** : Not Applicable  
**Coefficient Water/Oil Distribution** : No Data Available

### FIRE AND EXPLOSION HAZARD OF PRODUCT

**Flash Point And Method of Determination** : Not Available  
**Conditions of Flammability** : Not Available  
**Means of Extinction** : Dry chemical, carbon dioxide and water  
**Upper Explosion Limit** : No Data Available  
**Lower Explosion Limit** : No Data Available  
**Auto-Ignition Temperature** : No Data Available  
**Hazardous Combustion Products** : When product is involved in a fire, firefighters should wear full protective clothing and self-contained breathing apparatus if exposed to vapours or products of combustion.

## REACTIVITY DATA

<b>Stability</b>	:	Stable
<b>Incompatible Materials</b>	:	None
<b>Conditions of Reactivity</b>	:	No Data Available
<b>Hazardous Decomposition Products</b>	:	Carbon monoxide, nitrogen oxides and oxygen

## TOXICOLOGICAL PROPERTIES

<b>Routes of Entry</b>	:	
<b>Skin Contact</b>	:	No Data Available
<b>Skin Absorption</b>	:	Yes
<b>Eye Contact</b>	:	Yes
<b>Ingestion</b>	:	Yes
<b>Inhalation</b>	:	Yes
<b>Acute or Over Exposure Effects</b>	:	No Data Available
<b>Chronic Exposure Effects</b>	:	No Data Available
<b>Exposure Limit</b>	:	No Data Available
<b>Irritancy</b>	:	Mild
<b>Sensitization</b>	:	No Data Available
<b>Carcinogenicity</b>	:	None Known
<b>Teratogenicity</b>	:	No Data Available
<b>Mutagenicity</b>	:	No Data Available
<b>Reproductive Effects</b>	:	No Data Available

## PREVENTATIVE MEASURES

<b>Personal Protective Equipment</b>	:	Safety glasses and rubber gloves
<b>Respiratory Protection</b>	:	Not normally required
<b>Ventilation Requirements</b>	:	Normal room ventilation
<b>Spill and Leak Procedures</b>	:	Dilute with water. Neutralize and drain into the sewer with abundant water.
<b>Storage Requirements</b>	:	Avoid direct sunlight
<b>Special Handling Information</b>	:	None

## FIRST AID MEASURES

Flush eyes with abundant water. Call a physician. In case of ingestion, induce vomiting. Give large amounts of water. Call a physician.

## PREPARATION INFORMATION

<b>Prepared By</b>	:	Lab Services PMC Water Systems Services Inc. 124 Connie Crescent, Unit 9 Concord, ON L4K 1L7
<b>Phone</b>	:	905-669-8262
<b>Fax</b>	:	905-669-8252
<b>Date Prepared</b>	:	August 11, 2013

While all the data presented is believed to be accurate at the time of preparation, PMC Water Systems Services Inc. makes no warranty; the data is offered for your consideration, investigation and verification.