



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-100 & R-101 HARDNESS BUFFER

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-100 and R-101
Product Use : Test Reagent
WHMIS Class : [E] Corrosive
TDG Class : Corrosive Liquid NOS, Class 8, UN 1760, PG II

HAZARDOUS INGREDIENTS OF MATERIAL

Ingredients	Concentration	CAS #	LD ₅₀	LC ₅₀
Ammonium Hydroxide	15-40%	1336-21-6	No Data Available	No Data Available
Ammonium Chloride	1-10%	12125-02-9	No Data Available	No Data Available

The remaining ingredients are not classified as hazardous according to the DSL.

PHYSICAL DATA FOR PRODUCT

Physical State : Liquid
Odour and Appearance : Strong Ammonical; Colourless
Odour Threshold : TLV 18 mg/m³ (as ammonia)
Specific Gravity (Water = 1) : .97 g/cc
Vapour Pressure (mmHg) : 143
Vapour Density (Air = 1) : .6
Evaporation Rate : No Data Available
Boiling Point : 49 - 60°C, 120 - 140°F
Freezing Point : No Data
pH : 10 - 11
Coefficient Water/Oil Distribution : No Data Available

FIRE AND EXPLOSION HAZARD OF PRODUCT

Flash Point And Method of Determination : Not Data Available
Conditions of Flammability : Not Data Available
Means of Extinction : Dry chemical, carbon dioxide and water
Upper Explosion Limit : Not Data Available
Lower Explosion Limit : Not Data Available
Auto-Ignition Temperature : Not 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

Stability	:	Stable
Incompatible Materials	:	Avoid strong oxidizers and strong acids
Conditions of Reactivity	:	No Data Available
Hazardous Decomposition Products	:	Sulfur oxides, nitrogen oxides, nitrogen oxides, ammonia, hydrogen sulfide and hydrogen chloride

TOXICOLOGICAL PROPERTIES

Routes of Entry	:	
Skin Contact	:	Corrosive to skin
Skin Absorption	:	Yes
Eye Contact	:	Yes
Ingestion	:	Yes
Inhalation	:	Yes
Acute or Over Exposure Effects	:	Corrosive to eyes, skin and mucous membranes.
Chronic Exposure Effects	:	No Data Available
Exposure Limit	:	PEL 35 mg/M3 STEL 27 mg/M3
Irritancy	:	Severe
Sensitization	:	No Data Available
Carcinogenicity	:	None Known
Teratogenicity	:	No Data Available
Mutagenicity	:	No Data Available
Reproductive Effects	:	No Data Available

PREVENTATIVE MEASURES

Personal Protective Equipment	:	Goggles or face shield; rubber gloves,
Respiratory Protection	:	Not normally required
Ventilation Requirements	:	Normal room ventilation
Spill and Leak Procedures	:	Dilute with water. Neutralize and drain into sewer with abundant water.
Storage Requirements	:	Avoid direct sunlight

FIRST AID MEASURES

Flush eyes with abundant water. Rinse skin with soap and water. In case of ingestion, do not induce vomiting. Give large amounts of water; follow with milk or egg whites beaten in water. Call a physician.

PREPARATION INFORMATION

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