



SAFETY DATA SHEET

HARDNESS INDICATOR

1. Product and Company Identification

Material name	HARDNESS INDICATOR
Version #	2.0
Revision date	17/02/2014
Supersedes date	04/02/2011
CAS #	Mixture
Product application	Field test reagent.

Company/undertaking identification

GE Water & Process Technologies Canada
3239 Dundas Street West
Oakville, Ontario, L6M 4B2
T 905-465-3030

Emergency telephone

(800) 877-1940

2. Hazards Identification

Emergency overview	May cause slight irritation to the skin. May cause moderate irritation to the eyes. Dusts may cause irritation to the upper respiratory tract.
Potential health effects	
Eyes	May cause moderate irritation to the eyes.
Skin	Primary route of exposure May cause slight irritation to the skin.
Inhalation	Dusts cause irritation to the upper respiratory tract.
Ingestion	May cause slight gastrointestinal irritation.
Target organs	No evidence of potential chronic effects.
Signs and symptoms	May cause eye, skin and/or respiratory tract irritation.
Medical conditions aggravated by exposure	None known.

3. Composition / Information on Ingredients

The components are not hazardous or are below required disclosure limits.

Composition comments	Information for specific product ingredients as required by the WHMIS Regulations is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.
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4. First Aid Measures

First aid procedures

Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention immediately.
Skin contact	Wash thoroughly with soap and water. Remove contaminated clothing. Wash clothing separately before reuse.
Inhalation	If symptoms are experienced, remove source of contamination or move victim to fresh air.

Ingestion	Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water. Call a physician immediately.
Notes to physician	No special instructions.

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Fire fighting equipment/instructions	Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
Explosion data	
Sensitivity to static discharge	Not available.
Sensitivity to mechanical impact	Not available.
Hazardous combustion products	oxides of carbon, nitrogen, and sulfur.

6. Accidental Release Measures

Personal precautions	See Section 8 of the MSDS for Personal Protective Equipment.
Methods for containment	Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Ventilate area, use specified protective equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal.

7. Handling and Storage

Handling	Normal chemical handling.
Storage	Keep container tightly closed and dry. Store away from oxidizers.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Exposure guidelines	This material does not have established exposure limits.
Personal protective equipment	
Eye / face protection	Airtight chemical goggles.
Skin protection	Rubber, butyl, viton or neoprene gloves.
Respiratory protection	If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.

9. Physical & Chemical Properties

Appearance	
Physical state	Powder
Color	Black
Odor	None
Odor threshold	Not available.
pH in aqueous solution	10 (5% SOL.)
Vapor pressure	Not available.
Vapor density	(Air = 1)
Boiling point	Not available.
Melting point/Freezing point	Not available.
Solubility (water)	Not available.
Specific gravity (70°F, 21°C)	Not available.
Flash point	> 200 °F (> 93 °C) P-M(CC)
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Auto-ignition temperature	Not available.

Evaporation rate < 1 (Ether = 1)
Viscosity temperature 70 °F (21 °C)

10. Chemical Stability & Reactivity Information

Chemical stability Stable at normal conditions.
Conditions to avoid Not available.
Incompatible materials Oxidizing agents.
Hazardous decomposition products Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides.
Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data		
Product	Species	Test Results
HARDNESS INDICATOR (CAS Mixture)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg, (Estimated value)
Oral		
LD50	Rat	> 2000 mg/kg, (Estimated value)

12. Ecological Information

Ecotoxicity No ecotoxicity data noted for the ingredient(s).

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transport Information

TDG
Not regulated as dangerous goods.
DOT
Not regulated as a dangerous good.
IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.

15. Regulatory Information

WHMIS status Non-controlled

Inventory status		
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)		

16. Other Information

List of abbreviations	CAS: Chemical Abstract Service Registration Number TSRN indicates a Trade Secret Registry Number is used in place of the CAS number. ACGIH: American Conference of Governmental Industrial Hygienists NOEL: No Observed Effect Level STEL: Short Term Exposure Limit LC50: Lethal Concentration, 50% TWA: Time Weighted Average BOD: Biochemical Oxygen Demand COD: Chemical Oxygen Demand TOC: Total Organic Carbon IATA: International Air Transport Association IMDG: International Maritime Dangerous Goods Code LD50: Lethal Dose, 50% NFPA: National Fire Protection Association
HMIS® ratings	Health: 1 Flammability: 1 Physical hazard: 0 Personal protection: B
NFPA ratings	Health: 1 Flammability: 1 Instability: 0
This data sheet contains changes from the previous version in section(s):	Product and Company Identification: Physical States
Prepared by	This MSDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).