



SAFETY DATA SHEET

HARDNESS TITRANT 1ML=1MG CAC03

1. Product and Company Identification

Material name	HARDNESS TITRANT 1ML=1MG CAC03
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. Mists/aerosols may cause irritation to 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	Mists/aerosols may cause irritation to 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. Hold eyelids apart. Get medical attention immediately.
Skin contact	Wash off with soap and water. Remove contaminated clothing. Get medical attention if irritation develops and persists.
Inhalation	If nasal, throat or lung irritation develops - remove to fresh air and get medical attention.

Ingestion	Do not feed anything by mouth to an unconscious or convulsive victim. Do NOT induce vomiting! Immediately contact a physician. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water.
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Notes to physician	No special instructions.
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5. Fire Fighting Measures

Extinguishing media

Suitable extinguishing media	Carbon dioxide, dry chemicals, foam, water spray (fog).
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Fire fighting equipment/instructions	Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
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Explosion data

Sensitivity to static discharge	Not available.
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Sensitivity to mechanical impact	Not available.
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Hazardous combustion products	oxides of carbon, nitrogen, and sulfur.
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6. Accidental Release Measures

Personal precautions	See Section 8 of the MSDS for Personal Protective Equipment.
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Methods for cleaning up	Ventilate area, use specified protective equipment. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean up in accordance with all applicable regulations.
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7. Handling and Storage

Handling	Normal chemical handling.
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Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
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8. Exposure Controls / Personal Protection

Occupational exposure limits

No exposure limits noted for ingredient(s).

Engineering controls	Provide adequate ventilation.
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Personal protective equipment

Eye / face protection	Airtight chemical goggles.
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Respiratory protection	A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. If air-purifying respirator use is appropriate, use any of the following particulate respirators: N95, N99, N100, R95, R99, R100, P95, P99 or P100.
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9. Physical & Chemical Properties

Appearance

Physical state	Liquid
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Color	Colorless
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Odor	None
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Odor threshold	Not available.
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pH (concentrated product)	10.3
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Vapor pressure	Not available.
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Vapor density	(Air = 1)
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Boiling point	Not available.
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Melting point/Freezing point	Not available.
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Solubility (water)	Not available.
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Specific gravity (70°F, 21°C)	1
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Flash point	> 200 °F (> 93 °C) SETA(CC)
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Flammability limits in air, upper, % by volume	Not available.
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Flammability limits in air, lower, % by volume	Not available.
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Auto-ignition temperature	Not available.
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Evaporation rate < 1 (Ether = 1)
Viscosity temperature 70 °F (21 °C)

10. Chemical Stability & Reactivity Information

Chemical stability Stable under normal storage conditions.
Conditions to avoid Not available.
Incompatible materials Avoid contact with strong oxidizers.
Hazardous decomposition products Not available.
Possibility of hazardous reactions Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	Species	Test Results
HARDNESS TITRANT 1ML=1MG CAC03 (CAS Mixture)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg, (Estimated value)
<i>Oral</i>		
LD50	Rat	> 2000 mg/kg, (Estimated value)

12. Ecological Information

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

13. Disposal Considerations

Disposal instructions Review federal, state/provincial, and local government requirements prior to disposal.

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 Not available.

HMIS® ratings

Health: 1
Flammability: 0
Physical hazard: 0
Personal protection: B

NFPA ratings

Health: 1
Flammability: 0
Instability: 0
Special hazards: NONE

**This data sheet contains changes
from the previous version in
section(s):**

Product and Company Identification: Physical States
Regulatory Information: United States

Prepared by

This MSDS has been prepared by GE Water & Process Technologies Regulatory Department
(1-215-355-3300).