



SAFETY DATA SHEET

MICROHARDNESS TITRANT 1ML=0.2MG CAC03

1. Product and Company Identification

Material name	MICROHARDNESS TITRANT 1ML=0.2MG CAC03
Version #	2.0
Revision date	Sep-22-2014
Supersedes date	Sep-14-2011
Prepared by	This MSDS has been prepared by GE Water & Process Technologies Regulatory Department (1-215-355-3300).
CAS #	Mixture
Product application	Field test reagent.

Company/undertaking identification

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2. Hazards Identification

Emergency overview	Non-hazardous to skin. May cause slight irritation to the eyes. Not expected to cause respiratory tract irritation.
Potential health effects	
Eyes	May cause slight irritation to the eyes.
Skin	Primary route of exposure Non-hazardous to skin.
Inhalation	Not expected to cause respiration tract irritation.
Ingestion	No adverse effects expected.
Target organs	No evidence of potential chronic effects.
Signs and symptoms	Not applicable.
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	Remove contact lenses, if present and easy to do. Keep eyelids apart. Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin contact	Wash off with soap and water. Take off contaminated clothing and wash before reuse. Get medical attention if irritation develops and persists.

Inhalation	Remove to fresh air. Get medical attention if cough or other symptoms develop.
Ingestion	Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting. Call a physician immediately. Dilute contents of stomach using 2-8 fluid ounces (60-240ml) of milk or water.
Notes to physician	No specific antidotes are recommended.

5. Fire Fighting Measures

Extinguishing media	
Suitable extinguishing media	Dry chemical, CO2, water spray or regular foam.
Protection of firefighters	
Protective equipment for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials. 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.

6. Accidental Release Measures

Personal precautions	Wear appropriate protective equipment and clothing during clean-up. Avoid contact with spilled material. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements.
Methods for cleaning up	Ventilate area, use specified protective equipment. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Flush with plenty of water. Wet area may be slippery. Spread sand/grit.

7. Handling and Storage

Handling	No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.
Storage	Keep container tightly closed in a dry and well-ventilated place. Do not freeze. If frozen, thaw completely and mix thoroughly prior to use.

8. Exposure Controls / Personal Protection

Biological limit values	No biological exposure limits noted for the ingredient(s).
Engineering controls	Provide adequate ventilation.
Personal protective equipment	
Eye / face protection	Splash proof chemical goggles.
Skin protection	Use of gloves made of rubber or synthetic material is optional. Wash off after each use. Replace as necessary.
Respiratory protection	Respiratory protection not required.

9. Physical & Chemical Properties

Appearance	
Physical state	Liquid
Color	Colorless
Odor	None
Odor threshold	Not available.
pH (concentrated product)	12
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)	1

Flash point	200 °F (93 °C) OPEN CUP
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	Material is stable under normal conditions.
Conditions to avoid	Not available.
Incompatible materials	Strong oxidizing substances.
Hazardous decomposition products	Volatile amines. Ammonia, oxides of carbon and nitrogen evolved in fire.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data

Product	Species	Test Results
MICROHARDNESS TITRANT 1ML=0.2MG 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).
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13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

TDG

Not regulated as dangerous goods.

DOT

Not regulated as a dangerous good.

Some containers may be DOT exempt, please check BOL for exact container classification.

IMDG

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

15. Regulatory Information

WHMIS status	Non-controlled
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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)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory 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: 0
Flammability: 0
Physical hazard: 0
Personal protection: A

NFPA ratings

Health: 0
Flammability: 1
Instability: 0

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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

HazReg Data: International Inventories