

# SAFETY DATA SHEET

According to 29 CFR 1910.1200 Hazard Communication Standard 2012 (HazCom 2012)

## SECTION 1: Identification

**Product identifier** 

Product name Hardness Reagent

Product number R-0012

Recommended use and

restrictions

To be used in accordance with manufacturer instructions or under the direct guidance of the

manufacturer.

Manufacturer Taylor Technologies, Inc.

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## SECTION 2: Hazard(s) identification

Physical hazards No data available
Health hazards No data available
Environmental hazards No data available

Label elements

Hazard pictograms No data available
Signal word No data available
Hazard statements No data available

Precautionary statements

Prevention No data available
Response No data available

Storage Keep tightly capped. Store out of direct sunlight between 36°F–85°F.

Disposal No data available

Hazards not otherwise Avoid contact with skin, eyes, or clothing. For contact with skin or eyes, flush 20 minutes with water.

**classified** If ingested, contact physician or local poison control center. Treat symptoms as needed.

# SECTION 3: Composition/information on ingredients

Mixture			
Chemical name	Common name and synonyms	CAS number	%
Water	Dihydrogen oxide	7732-18-5	95–99
Ethylenediaminetetraacetic acid EDTA		60-00-4	0.1–5
Other components below reportable levels			0.01–0.1

## SECTION 4: First-aid measures

#### If inhaled

Remove individual to fresh air. Seek medical attention if breathing becomes difficult or if respiratory irritation develops. Give oxygen or artificial respiration if needed.

## In case of skin contact

Immediately flush skin with plenty of water for at least 20 minutes. If clothing comes in contact with the product, the clothing should be removed and laundered before reuse. Seek medical attention if irritation develops.

#### In case of eve contact

Immediately flush eyes with plenty of water for at least 20 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If symptoms persist or in all cases of concern, seek medical advice.

## If swallowed

Rinse mouth. Never give anything by mouth to a person who is unconscious or is having convulsions. Do NOT induce vomiting unless directed by physician. If vomiting occurs, keep head low so that stomach content does not get into the lungs. If symptoms persist or in all cases of concern, seek medical advice.

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#### Most important symptoms and effects, both acute and delayed

Refer to section 2 and/or section 11 of the SDS for the most important known symptoms and effects.

## Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

#### **General information**

Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## SECTION 5: Firefighting measures

**Extinguishing media** 

Unsuitable extinguishing Do not use a heavy water stream. Use of heavy stream of water may spread fire.

media

Specific hazards arising from the substance or mixture

Fire hazard Not flammable Explosion hazard Not explosive

Reactivity Hazardous reactions will not occur under normal conditions.

Hazardous combustion Hydrogen chloride gas and magnesium oxide

products

Advice for firefighters

Precautionary measures

Exercise caution when fighting any chemical fire; hazardous fumes will be present.

Firefighting Use water spray or fog for cooling exposed containers.

equipment/instructions

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

Other information Refer to section 9 of the SDS for flammability properties.

## SECTION 6: Accidental release measures

#### Personal precautions, protective equipment, and emergency procedures

Wear appropriate protective equipment and clothing during cleanup. Local authorities should be advised if significant spillages cannot be contained. For personal protective equipment, refer to section 8 of the SDS.

## **Environmental precautions**

Avoid discharge into drains, watercourses, or onto the ground.

#### Methods and material for containment and cleaning up

Dike the spilled material where this is possible. Stop leak if it can be done without risk. Absorb spillage to prevent material damage. Absorb in vermiculite, dry sand or earth, and place into containers. Prevent entry into waterways, sewers, basements, or confined areas. Following product recover, flush area with water. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

#### Reference to other sections

For exposure controls and personal protection, refer to section 8 of the SDS. For waste disposal, refer to section 13 of the SDS.

## SECTION 7: Handling and storage

#### Personal precautions, protective equipment, and emergency procedures

Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. For personal protective equipment, refer to section 8 of the SDS. Keep away from incompatibles. Observe good industrial hygiene practices. Label containers appropriately.

## Conditions for safe storage, including any incompatibilities

Keep tightly capped. Store out of direct sunlight between 36°F–85°F. Store away from incompatible materials (refer to section 10 of the SDS).

## SECTION 8: Exposure controls/personal protection

Occupational exposure limits No occupational exposure limits noted for the ingredient(s)

Biological limit values No biological exposure limits noted for the ingredient(s)

Exposure controls

Appropriate engineering

controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eyewash facilities and emergency shower must be available when handling this product.

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Personal protective equipment

Eye/face protection Wear appropriate chemical safety goggles if contact is likely to occur.

Skin protection Wear appropriate chemical-resistant gloves and clothing if contact is likely to occur.

Body protection Wear appropriate protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment. Use a NIOSH/MSHA

approved respirator if there is a risk of exposure to dust/fumes at levels exceeding the exposure

limits. Advice should be sought from respiratory protection suppliers.

# SECTION 9: Physical and chemical properties

# Information on basic physical and chemical properties

Physical state Liquid Form Liquid

Color Clear, colorless or nearly colorless

Odor Odorless

Odor threshold No data available

pH 8.1

No data available Evaporation rate Melting point No data available Freezing point No data available 212°F (100°C) Boiling point Flash point No data available No data available Auto-ignition temperature Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure 17 mm Hg

Relative vapor density 0.0

Soluble in all proportions

Partition coefficient (n-octanol/water)

No data available

Viscosity

No data available
Explosive properties

No data available
Oxidizing properties

No data available

## SECTION 10: Stability and reactivity

**Reactivity** Hazardous reactions will not occur under normal conditions.

**Chemical stability** Stable under recommended handling and storage conditions (refer to section 7 of the SDS)

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use

**Conditions to avoid**Contact with incompatible materials. Do not use in areas without adequate ventilation.

## SECTION 11: Toxicological information

#### Information on toxicological

effects

Inhalation May cause irritation to the respiratory system
Skin contact May cause slight or mild transient irritation
Eye contact May cause slight or mild transient irritation

Ingestion May cause irritation, nausea, vomiting, and diarrhea

Most important

symptoms/effects, acute and

delayed

Direct skin contact may cause slight or mild transient irritation. Symptoms may include redness and itahing

itching.

Direct eye contact may cause slight or mild transient irritation. Symptoms may include stinging,

tearing, redness, swelling, and blurred vision.

Inhalation of mists can cause respiratory irritation. Symptoms may include coughing and breathing

difficulties.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Acute toxicity This product is not classified as an acute toxicity hazard. See below for individual ingredient acute

toxicity data.

Components Species Test Results

Acute

Acute

Oral

 $LD_{50}$  Rat 4500 mg/kg

Acute toxicity

No data available

Respiratory or skin

No data available

Ethylenediaminetetraacetic acid (CAS 60-00-4)

sensitization

Germ cell mutagenicity

Carcinogenicity

No data available

Reproductive toxicity

No data available

No data available

No data available

Specific target organ toxicity

(single exposure)

(single exposure)

Specific target organ toxicity No data available

(repeated exposure)

Aspiration hazard No data available

# SECTION 12: Ecological information

This product is not classified as environmentally hazardous; however, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

## SECTION 13: Disposal considerations

Collect and reclaim or dispose of in sealed containers at a licensed waste disposal site. Since emptied containers may retain product residue, follow label warnings even after container is emptied. This material and its container must be disposed of in a safe manner. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

No data available

# SECTION 15: Regulatory information

No data available

## SECTION 16: Other information

**NFPA Rating** 

Health hazard 0
Fire hazard 0
Reactivity 0
Specific N/A

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Issue date:

June 2015

Last revision

June 2016