

# **SAFETY DATA SHEET**

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

### SECTION 1: Identification

**Product identifier** 

Product name Hardness Total 500 - Reagent C

Product number R-80290

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** Carcinogenicity Category 2

No data available

Eye damage/irritation Category 2A Skin corrosion/irritation Category 2

**Environmental hazards** 

Label elements

Hazard pictograms



Signal word Warning

Hazard statements Suspected of causing cancer. Causes serious eye irritation. Causes skin irritation.

Precautionary statements

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read and

understood. Wear protective gloves/protective clothing/eye protection/face protection if contact is

likely to occur. Wash skin thoroughly after handling.

Response IF EXPOSED OR CONCERNED: Get medical advice/attention. IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. IF EYE IRRITATION PERSISTS: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. IF SKIN IRRITATION OCCURS: Get medical advice/attention. Take off all contaminated clothing

and wash it before reuse.

Storage Keep tightly closed. Store out of direct sunlight between 36°F–85°F. Store locked up.

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

Hazards not otherwise

classified

No data available

Mixture Chemical name	Common name and synonyms	CAS number	%
Water	Dihydrogen oxide	7732-18-5	70–80
Propylene glycol	1,2-Propanediol	57-55-6	20-30
Trade secret			<2

SDS US

#### 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

Immediately call a physician or poison control center. 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.

#### 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**

Suitable extinguishing media Use extinguishing media appropriate for surrounding fire.

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 Carbon oxides, nitrogen oxides, potassium oxides, sodium oxides

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

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. 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

Ventilate the area. Stop leak if it can be done without risk. Use water spray to reduce vapors or divert vapor cloud drift. Dike the spilled material where this is possible. 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 recovery, flush area with water to remove residual contamination. 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

#### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. 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 closed. Store out of direct sunlight between 36°F-85°F. Store locked up. 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) No biological exposure limits noted for the ingredient(s) **Biological limit values** 

**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.

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

Liquid Physical state Form Liquid Color Clear, red Odor Odorless

Odor threshold No data available

pΗ 5.25

No data available Evaporation rate Melting point No data available Freezing point No data available **Boiling** point No data available Flash point No data available Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative vapor density No data available

Solubility Soluble in all proportions

Partition coefficient

(n-octanol/water)

No data available

No data available Viscosity No data available Explosive properties 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.

Incompatible materials Acid anhydrides, acid chlorides, chloroformates, oxidizing agents, reducing agents, strong bases

#### SECTION 11: Toxicological information

Information on toxicological

effects

May cause irritation to the respiratory system Inhalation

Skin contact Causes skin irritation

Eve contact Causes serious eye 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

itching.

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

tearing.

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

difficulties.

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

Possible cancer hazard. May cause cancer, based on animal data.

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

toxicity data.

Components **Species Test Results** 

Propylene glycol (CAS 57-55-6)

Acute

Dermal

 $LD_{50}$ 

Rabbit 20800 mg/kg

Oral

Rat  $LD_{50}$ 20000 mg/kg

Respiratory or skin

sensitization

No data available

Germ cell mutagenicity No data available

Carcinogenicity Suspected of causing cancer IARC Monographs Overall Evaluation of Carcinogenicity Trade secret 2B Possibly carcinogenic to humans

National Toxicology Program (NTP) Report on Carcinogens

Reasonably anticipated to be a human carcinogenic Trade secret

Reproductive toxicity No data available Specific target organ toxicity No data available

(single exposure)

Specific target organ toxicity No data available (repeated exposure)

No data available Aspiration hazard

### 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

DOT Not regulated as dangerous goods **IATA** Not regulated as dangerous goods **IMDG** Not regulated as dangerous goods

### SECTION 15: Regulatory information

### U.S. federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### U.S. state regulations

### California Proposition 65 - CRT: Listed date/Carcinogenic substance

Trade secret (Listed April 1, 1989)

#### California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65)

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

#### Massachusetts Right-to-Know Act

Trade secret

#### New Jersey Worker and Community Right-to-Know Act

Propylene glycol (CAS 57-55-6)

Trade secret

### Pennsylvania Worker and Community Right-to-Know Act

Propylene glycol (CAS 57-55-6)

Trade secret

### SECTION 16: Other information

#### **NFPA** Rating

Health hazard 1
Fire hazard 0
Reactivity 0
Specific N/A

### Disclaimer

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### Issue date:

June 2015

### **Last revisions**

August 2016