

SAFETY DATA SHEET

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

Revision: 06/25/2021

SECTION 1: Identification

Product identifier

Product name Hardness Total 4 – Reagent A

Product number R-8022A

Recommended use and

restrictions

Water analysis. To be used in accordance with manufacturer instructions or under the direct

Not currently regulated by OSHA. For additional information, refer to section 12 of the SDS.

guidance of the manufacturer.

Manufacturer Taylor Technologies, Inc.

31 Loveton Circle Sparks, MD 21152

Local: (410) 472-4340 – 8am – 5pm EST Toll-free: (800) 837-8548 – 8am – 5pm EST

Emergency phone number

CHEMTREC, United States 1-800-424-9300 – 24-hour service CHEMTREC, International +1 703-741-5970 – 24-hour service

SECTION 2: Hazard(s) Identification

Physical hazards Not applicable

Health hazardsEye damage/irritationCategory 2A

Skin corrosion/irritation Category 2

Environmental hazards

Label elements
Hazard pictograms



Signal word Warning

Hazard statements Causes serious eye irritation. Causes skin irritation.

Precautionary statements

Prevention Wash skin thoroughly after handling. Wear protective gloves/protective clothing/eye

protection/face protection if contact is likely to occur.

Response 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 contaminated clothing and wash it before reuse.

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

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

regulations.

Hazards not otherwise

classified

Not applicable

SECTION 3: Composition/Information on Ingredients

Mixture

Chemical name Common name and synonyms **CAS** number % w/w Water Dihydrogen oxide 7732-18-5 80-100 Ethanecarboxylic acid Propionic acid 79-09-4 0.1-1 Non-hazardous or below Not applicable Not applicable <1 reportable levels

SECTION 4: First-Aid Measures

If inhaled

Remove individual to fresh air. Seek medical advice/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 advice/attention if irritation develops.

In case of eye 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/attention.

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/attention.

Most important symptoms and effects, both acute and delayed

Direct skin or eye contact may cause serious irritation. Symptoms may include redness or itching. Tearing of the eyes or blurred vision may occur. Inhalation may cause respiratory irritation, such as coughing. Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Refer to section 11 of the SDS for delayed and immediate effects and chronic effects from short- and long-term exposure.

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

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.

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 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. Never return spills to original containers for reuse. Contaminated absorbent material may pose the same hazards as the spilled product. In the event of large 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

Do not breathe dust/fume/gas/mist/vapors/spray. 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

US ACGIH Threshold Limit Values

Value Components **Type** TWA 10 ppm (30 mg/m³) Propionic acid (79-09-4)

US NIOSH: Pocket Guide to Chemical Hazards

Components Value Type Propionic acid (79-09-4) TWA 10 ppm (30 mg/m³) Propionic acid (79-09-4) STEL 15 ppm (45 mg/m³)

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components Value Propionic acid (79-09-4) Not applicable Not applicable

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure controls

Appropriate engineering Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates controls

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 safety glasses with side shields (or goggles) if contact is likely to occur.

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

Wear appropriate protective clothing if contact is likely to occur Body protection

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

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 Dark red

Odor No data available Odor threshold No data available

Hq 28

No data available Evaporation rate Melting point No data available No data available Freezing point Initial boiling point (boiling

range)

212°F (100°C)

No data available

Flash point Not applicable Specific gravity No data available Auto-ignition temperature No data available No data available Decomposition temperature No data available Flammability (solid, gas) Upper Flammability Limit No data available Lower Flammability Limit No data available No data available Vapor pressure Vapor density No data available

Solubility Miscible

Relative density

Partition coefficient (n-octanol/water)

No data available

No data available Viscosity Explosive properties Not explosive Not oxidizing Oxidizing properties

SECTION 10: Stability and Reactivity

Reactivity Hazardous reactions will not occur under normal conditions of use, storage, and transport. Stable under recommended handling and storage conditions (refer to section 7 of the SDS). Chemical stability

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 Strong oxidizing agents.

No hazardous decomposition products known. Hazardous decomposition

products

SECTION 11: Toxicological Information

Information on likely routes of exposure

Inhalation Avoid inhalation of this product. Use in a well-ventilated area. Skin contact Direct contact with skin may cause temporary irritation.

Eye contact Direct contact with eyes may cause serious irritation. Avoid close eye contact; Use caution to

avoid splashes. Wear eye protection.

Ingestion Avoid accidental ingestion by observing good hygiene practices. Wash hands thoroughly after

handling this product.

Symptoms related to the Causes serious eye irritation. Causes skin irritation.

physical, chemical, and toxicological characteristics

Refer to section 4 of the SDS for most important symptoms and effects.

Delayed and immediate effects and chronic effects from short- and long-term exposure

Acute toxicity This product is not classified as an acute toxicity hazard.

Skin corrosion/irritation Causes skin irritation

Serious eye damage/eye

irritation

Causes serious eye irritation

Respiratory sensitization No data available Skin sensitization No data available No data available Germ cell mutagenicity

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096)

Not regulated

US National Toxicology Program (NTP) Report on Carcinogens

Not listed

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

(single exposure)

Specific target organ toxicity

(repeated exposure)

No data available

Aspiration hazard No data available

SECTION 12: Ecological Information

Ecotoxicity This product is not classified as environmentally hazardous.

Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

Other adverse effects 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 goodsIATA Not regulated as dangerous goodsIMDG Not regulated as dangerous goods

SECTION 15: Regulatory Information

US federal regulations

CERCLA Hazardous Substance (40 CFR 302.4)

Not regulated

SARA 302 Extremely Hazardous Substance (40 CFR 355 Appendices A / B)

Not regulated

SARA 304 Emergency Release Notification

Not regulated

SARA 311/312 Hazardous Chemical

Chemical nameCAS numberPropionic acid79-09-4

SARA 313 (TRI reporting)

Not regulated

TSCA Section 8(b) Chemical Inventory

All components are on the U.S. EPA TSCA Inventory list.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs)

Not regulated

Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)

Not regulated

Clean Water Act, Toxic and Priority Pollutants (40 CFR 401.15 and CFR 423, Appendix A)

Not regulated

Safe Drinking Water Act (SDWA)

Not regulated

US state regulations

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

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Massachusetts Right-to-Know Act

Chemical name	CAS number
Propionic acid	79-09-4
New Jersey Worker and Com	munity Right-to-Know Act
Chemical name	CAS number
Propionic acid	79-09-4
Pennsylvania Worker and Cor	mmunity Right-to-Know Act
Chemical name	CAS number
Propionic acid	79-09-4
Rhode Island Right-to-Know	Act
Chemical name	CAS number
Propionic acid	79-09-4

SECTION 16: Other Information

NFPA Rating

Health hazard 2
Fire hazard 0
Reactivity 0
Specific N/A

Disclaimer

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This document embodies significant change(s) that may impact classification, safe handling, or health information for the associated product(s). The information contained herein should be reviewed in its entirety before handling material.