according to 29CFR1910/1200 and GHS Rev. 3

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Hardness Titrant, Low

SECTION 1: Identification of the substance/mixture and of the supplier

Product name : Hardness Titrant, Low

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: ANDED2073-B

Recommended uses of the product and restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific, Inc 9 Barnhart Drive, Hanover, PA 17331 (717) 632-1291

Supplier Details:

Anderson Chemical Company 325 South David Avenue, Litchfield, MN 55355 (320) 693-2477

Emergency telephone number:

Anderson Chemical Company Emergency Telephone No.: (800) 255-3924

SECTION 2: Hazards identification

Classification of the substance or mixture:

Not classified for physical or health hazards under GHS.

Hazard statements:

Precautionary statements:

If medical advice is needed, have product container or label at hand Keep out of reach of children Read label before use

Other Non-GHS Classification:

WHMIS NFPA/HMIS





HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

| Ingredients: | | |
|---------------|-----------------|---------|
| CAS 7732-18-5 | Deionized Water | 98.53 % |

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| Hardness Titrant, Low | | | |
|-----------------------|---------------------|----------|--|
| | | <u> </u> | |
| CAS 6381-92-6 | Disodium Dihydrogen | 1.15 % | |
| CAS 1310-73-2 | Sodium Hydroxide | 0.16 % | |
| | | | |

| CAS 6381-92-6 | Disodium Dihydrogen | 1.15 % |
|----------------|--------------------------------|---------------------------|
| CAS 1310-73-2 | Sodium Hydroxide | 0.16 % |
| CAS 15954-95-7 | Dihydrogen Magnesium EDTA | 0.1 % |
| CAS 7791-18-6 | Magnesium Chloride,Hexahydrate | 0.06 % |
| | • | Percentages are by weight |

SECTION 4: First aid measures

Description of first aid measures

After inhalation: Loosen clothing as necessary and position individual in a comfortable position. Move exposed to fresh air. Give artificial respiration if necessary. If breathing is difficult give oxygen. Get medical assistance if cough or other symptoms appear.

After skin contact: Wash hands and exposed skin with soap and plenty of water. Seek medical attention if irritation persists or if concerned.

After eye contact: Protect unexposed eye. Rinse or flush exposed eye gently using water for 15-20 minutes. Remove contact lenses while rinsing.Immediately get medical assistance.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical assistance.

Most important symptoms and effects, both acute and delayed:

Irritation.Headache.Nausea.Shortness of breath.;

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents: Use water, dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents:

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment: Wear protective eyeware, gloves, and clothing. Refer to Section 8.

Additional information (precautions): Avoid inhaling gases, fumes, dust, mist, vapor, and aerosols. Avoid contact with skin, eyes, and clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Ensure that air-handling systems are operational.

Environmental precautions:

Absorb with suitable material and treat as normal refuse. Small amounts may be flushed with excess water to sewer.Always obey local regulations.

Methods and material for containment and cleaning up:

Wear protective eyeware, gloves, and clothing. Refer to Section 8.Always obey local regulations. Containerize for disposal. Refer to Section 13.If necessary use trained response staff or contractor. Evacuate personnel to

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Hardness Titrant, Low

safe areas. Keep in suitable closed containers for disposal.

Reference to other sections:

SECTION 7: Handling and storage

Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Follow good hygiene procedures when handling chemical materials. Refer to Section 8. Follow proper disposal methods. Refer to Section 13. Do not eat, drink, smoke, or use personal products when handling chemical substances.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

SECTION 8 : Exposure controls/personal protection





Control Parameters: No applicable occupational exposure limits

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in

the immediate vicinity of use or handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational

Exposure Limits-OELs) indicated above.

Respiratory protection: Not required under normal conditions of use. Where risk assessment

shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved

breathing equipment.

Protection of skin: Select glove material impermeable and resistant to the substance. Select

glove material based on rates of diffusion and degradation. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Use proper glove removal technique without touching outer surface. Avoid skin contact with used gloves. Wear

protective clothing.

Eye protection: Wear equipment for eye protection tested and approved under

appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses or goggles are appropriate eye protection.

General hygienic measures: Perform routine housekeeping. Wash hands before breaks and at the end

of work. Avoid contact with skin, eyes, and clothing. Before wearing wash

contaminated clothing.

SECTION 9: Physical and chemical properties

| Appearance (physical state,color): | Clear colorless liquid | Explosion limit lower: Explosion limit upper: | Not Determined Not Determined |
|------------------------------------|------------------------|--|----------------------------------|
| Odor: | Odorless | Vapor pressure: | Not Determined |

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| Odor threshold: | Not Determined | Vapor density: | >1 |
|----------------------------------|----------------|---|--|
| pH-value: | 8-10 | Relative density: | Not Determined |
| Melting/Freezing point: | Approx 0°C | Solubilities: | Infinite solubility |
| Boiling point/Boiling range: | Approx 100°C | Partition coefficient (noctanol/water): | Not Determined |
| Flash point (closed cup): | Not Determined | Auto/Self-ignition temperature: | Not Determined |
| Evaporation rate: | Not Determined | Decomposition temperature: | Not Determined |
| Flammability (solid,gaseous): | Not Determined | Viscosity: | a. Kinematic:Not Determined b. Dynamic: Not Determined |
| Density: Not Determined | | | |

SECTION 10 : Stability and reactivity

Reactivity:Nonreactive under normal conditions. **Chemical stability:**Stable under normal conditions.

Possible hazardous reactions: None under normal processing.

Conditions to avoid:Incompatible materials.

Incompatible materials:Strong oxidizing agents.Copper.Aluminum. **Hazardous decomposition products:**Carbon oxides.Nitrogen oxides.

SECTION 11: Toxicological information

| Acute Toxicity: | | |
|--|-----------|---|
| Oral: | 6381-92-6 | LD50 oral-rat: 2000mg/kg (EDTA Disodium Anhydrous) |
| Chronic Toxicity: No additional information. | | |
| Corrosion Irritation: No additional information. | | |
| Sensitization: | | No additional information. |
| Single Target Organ (STOT): | | No additional information. |
| Numerical Measures: | | No additional information. |
| Carcinogenicity: | | No additional information. |
| Mutagenicity: | | No additional information. |
| Reproductive Toxicity: | | No additional information. |

SECTION 12: Ecological information

Ecotoxicity Persistence and degradability:

Bioaccumulative potential:

Mobility in soil:

Other adverse effects:

according to 29CFR1910/1200 and GHS Rev. 3

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SECTION 13: Disposal considerations

Waste disposal recommendations:

Dilute with water and flush to sewer. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information

UN-Number

Not Regulated

UN proper shipping name

Not Regulated

Transport hazard class(es)
Packing group:Not Regulated
Environmental hazard:
Transport in bulk:

Special precautions for user:

SECTION 15: Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

None of the ingredients is listed

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

6381-92-6 EDTA Disodium Dihydrate 5000 lbs

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

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All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is listed

Canadian NPRI Ingredient Disclosure list (limit 1%):

None of the ingredients is listed

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.Note:. The responsibility to provide a safe workplace remains with the user.The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment.The information contained herein is, to the best of our knowledge and belief, accurate.However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material.It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

PNEC: Predicted No-Effect Concentration (REACH)

CFR: Code of Federal Regulations (USA)

SARA: Superfund Amendments and Reauthorization Act (USA)

RCRA: Resource Conservation and Recovery Act (USA)

TSCA: Toxic Substances Control Act (USA)

NPRI: National Pollutant Release Inventory (Canada)

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

DNEL: Derived No-Effect Level (REACH)

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