SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

   **Product Name:** Mineral Stabilizer
   **Catalog Number:** 2376649

   Hach Company
   P.O.Box 389
   Loveland, CO USA 80539
   (970) 669-3050

   **Emergency Telephone Numbers:**
   (Medical and Transportation)
   (303) 623-5716
   (515)232-2533
   24 Hour Service
   8am - 4pm CST

   **MSDS Number:** M00526
   **Chemical Name:** Not applicable
   **CAS Number:** Not applicable
   **Additional CAS No. (for hydrated forms):** Not applicable
   **Chemical Formula:** Not applicable
   **Chemical Family:** Not applicable
   **Intended Use:** Laboratory Use Hardness Sequestering Agent

2. HAZARDS IDENTIFICATION

   This mixture is not classified as hazardous per GHS (UN publication ST/SG/AC.10/36/Add.3)

   **GHS Classification:**
   **Hazard categories:** Not applicable
   **GHS Label Elements:** Not applicable

   **Hazard statements:** Not applicable
   **Precautionary statements:** Not applicable

   **HMIS:**
   **Health:** 0
   **Flammability:** 0
   **Reactivity:** 0
   **Protective Equipment:** X - See protective equipment, Section 8.

   **NFPA:**
   **Health:** 0
   **Flammability:** 0
   **Reactivity:** 0
   **Symbol:** Not applicable
   **WHMIS Hazard Classification:** Not applicable
   **WHMIS Symbols:** Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

   **Hazardous Components according to GHS:** No
   **Demineralized Water**

   **CAS Number:** 7732-18-5
   **Chemical Formula:** H₂O
   **GHS Classification:** Not a dangerous substance according to GHS.
   **Percent Range:** 60.0 - 70.0
   **Percent Range Units:** weight / weight
   **PEL:** Not established
   **TLV:** Not established
**WHMIS Symbols:** Not applicable

**Sodium Citrate**

- **CAS Number:** 68-04-2
- **Chemical Formula:** $C_6H_5O_7Na_3 \cdot 2H_2O$
- **GHS Classification:** Not applicable
- **Percent Range:** 20.0 - 30.0
- **Percent Range Units:** weight / weight
- **PEL:** 15 mg/m$^3$ as inhalable dust; 5 mg/m$^3$ as respirable dust
- **TLV:** 10 mg/m$^3$ as inhalable dust; 3 mg/m$^3$ as respirable dust

**WHMIS Symbols:** Not applicable

**Potassium Sodium Tartrate**

- **CAS Number:** 304-59-6
- **Chemical Formula:** $C_4H_4O_6KNa \cdot 4H_2O$
- **GHS Classification:** Not applicable
- **Percent Range:** 20.0 - 30.0
- **Percent Range Units:** weight / weight
- **PEL:** 15 mg/m$^3$ as inhalable dust; 5 mg/m$^3$ as respirable dust
- **TLV:** 10 mg/m$^3$ as inhalable dust; 3 mg/m$^3$ as respirable dust

**WHMIS Symbols:** Not applicable

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### 4. FIRST AID MEASURES

**General Information:** In the event of exposure, show this Material Safety Data Sheet and label (where possible) to a doctor.

**Advice to doctor:** Treat symptomatically.

**Eye Contact:** Immediately flush eyes with water for 15 minutes. Call physician.

**Skin Contact (First Aid):** Remove contaminated clothing. Wash skin with soap and plenty of water. Call physician if irritation develops.

**Inhalation:** Remove to fresh air.

**Ingestion (First Aid):** Give large quantities of water. Never give anything by mouth to an unconscious person. Call physician immediately.

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### 5. FIRE FIGHTING MEASURES

**Flammable Properties:** Material will not burn.

**Fire Fighting Instruction:** As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

**Extinguishing Media:** Use media appropriate to surrounding fire conditions

**Extinguishing Media NOT To Be Used:** Not applicable

**Fire / Explosion Hazards:** None reported

**Hazardous Combustion Products:** Not applicable

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### 6. ACCIDENTAL RELEASE MEASURES

**Spill Response Notice:** Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance.

**Containment Technique:** Stop spilled material from being released to the environment.

**Clean-up Technique:** If permitted by regulation, Absorb spilled liquid with non-reactive sorbent material. Sweep up material. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse. Otherwise,
Dispose of material in government approved hazardous waste facility. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.

DOT Emergency Response Guide Number: Not applicable

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

Storage: Keep container tightly closed when not in use. Avoid contamination by organic materials.

Flammability Class: Not applicable

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Maintain general industrial hygiene practices when using this product.

Personal Protective Equipment:
- Eye Protection: safety glasses with top and side shields
- Skin Protection: lab coat

Inhalation Protection: adequate ventilation

Precautionary Measures: Avoid contact with: eyes. Wash thoroughly after handling.

TLV: Not established

PEL: Not established

For Occupational Exposure Limits (OEL) for ingredients, see section 3 - Composition/Information on Ingredients:

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid
Physical State: Liquid
Molecular Weight: Not applicable
Odor: None
Odor Threshold: Odorless
pH: 8.7

Metal Corrosivity:
- Corrosivity Classification: Not classified as corrosive to metals according to GHS criteria.
  - Steel: 0.001 in/yr
  - Aluminum: 0.016 in/yr

Specific Gravity/Relative Density (water = 1; air =1): 1.290
Viscosity: Not determined
Solubility:
- Water: Soluble
- Acid: Soluble
- Other: Not determined

Partition Coefficient (n-octanol/water): Not applicable
Coefficient of Water/Oil: Not applicable
Melting Point: -8 °C (17.6 °F)
Decomposition Temperature: Not applicable
Boiling Point: 98 °C (208.4 °F)
Vapor Pressure: Not determined
Vapor Density (air = 1): Not determined
Evaporation Rate (water = 1): 0.65
Volatile Organic Compounds Content: Not applicable
Flammable Properties: Material will not burn.
Flash Point: Not applicable
Method: Not applicable
Flammability Limits:
- Lower Explosion Limits: Not applicable
Upper Explosion Limits: Not applicable
Autoignition Temperature: Not applicable

Explosive Properties:
Not classified according to GHS criteria.

Oxidizing Properties:
Not classified according to GHS criteria.

Reactivity Properties:
Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria.

Gas under Pressure:
Not classified according to GHS criteria.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable when stored under proper conditions.
Mechanical Impact: None reported
Static Discharge: None reported.
Reactivity / Incompatibility: None reported

Hazardous Decomposition: Toxic fumes of: sodium oxides potassium oxide

Conditions to Avoid: Evaporation Extreme temperatures

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, Metabolism and Distribution: No information available for mixture.
Toxically Synergistic Products: None reported
Acute Toxicity: Based on classification principles, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure (STOT-SE): Based on classification principles, the classification criteria are not met.
Specific Target Organ Toxicity - Repeat Exposure (STOT-RE): Based on classification principles, the classification criteria are not met.

Skin Corrosion/Irritation: Based on classification principles, the classification criteria are not met.
Eye Damage: Based on classification principles, the classification criteria are not met.
Sensitization: Based on classification principles, the classification criteria are not met.
CMR Effects/Properties (carcinogenic, mutagenic or toxic to reproduction): No germ cell mutagenicity, carcinogenicity or reproductive toxicity data found.
This product does NOT contain any IARC listed chemicals.
This product does NOT contain any NTP listed chemicals.
This product does NOT contain any OSHA listed carcinogens.

Symptoms/Effects:
Ingestion: May cause: abdominal cramps
Inhalation: No effects anticipated
Skin Absorption: No effects anticipated
Chronic Effects: None reported
Medical Conditions Aggravated: None reported

12. ECOLOGICAL INFORMATION

Product Ecological Information: No information available for this product
Based on classification principles, not classified as hazardous to the environment.
Ingredient Ecological Information: None reported
CEPA categorization for each and every ingredient: Not Persistent or Bioaccumulative. Not inherently toxic to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

EPA Waste ID Number: Not applicable
Special Instructions (Disposal): Dilute to 3 to 5 times the volume with cold water. Open cold water tap completely, slowly pour the material to the drain.

Empty Containers: Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.

NOTICE (Disposal): These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information. In Europe: Chemical and analysis solutions must be disposed of in compliance with the respective national regulations. Product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

14. TRANSPORT INFORMATION

D.O.T.:
- D.O.T. Proper Shipping Name: Not Currently Regulated
- Hazard Class: NA
- Subsidiary Risk: NA
- ID Number: NA
- Packing Group: NA

T.D.G.:
- Proper Shipping Name: Not Currently Regulated
- Hazard Class: NA
- Subsidiary Risk: NA
- UN Number/PIN: NA
- Packing Group: NA

I.C.A.O.:
- I.C.A.O. Proper Shipping Name: Not Currently Regulated
- Hazard Class: NA
- Subsidiary Risk: NA
- ID Number: NA
- Packing Group: NA

I.M.O.:
- Proper Shipping Name: Not Currently Regulated
- Hazard Class: NA
- Subsidiary Risk: NA
- ID Number: NA
- Packing Group: NA

Additional Information: There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is NOT in a set or kit, the classification given above applies. If the item IS part of a set or kit, the classification would change to the following: UN3316 Chemical Kit, Class 9, PG II or III. If the item is not regulated, the Chemical Kit classification does not apply.

15. REGULATORY INFORMATION

U.S. Federal Regulations:
- E.P.A.:
  - S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370): Immediate (Acute) Health Hazard
  - S.A.R.A. Title III Section 313 (40 CFR 372): This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.
- 304 (EHS) RQ (40 CFR 355): Not applicable
- 304 CERCLA RQ (40 CFR 302.4): Not applicable
- 304 EHS RQ (40 CFR 355): Not applicable
- Clean Water Act (40 CFR 116.4): Not applicable
- RCRA: Contains no RCRA regulated substances.
State Regulations:
- California Prop. 65: No Prop. 65 listed chemicals are present in this product.
- Identification of Prop. 65 Ingredient(s): None
- California Perchlorate Rule CCR Title 22 Chap 33: Not applicable
- Trade Secret Registry: Not applicable

National Inventories:
- U.S. Inventory Status: All ingredients in this product are listed on the TSCA 8(b) Inventory (40 CFR 710).
- CAS Number: Not applicable
- Canadian Inventory Status: All ingredients of this product are DSL Listed.
- EEC Inventory Status: All ingredients used to make this product are listed on EINECS / ELINCS.
- Australian Inventory (AICS) Status: All ingredients are listed.
- New Zealand Inventory (NZIoC) Status: All components either listed or exempt.
- Korean Inventory (KECI) Status: All components of this product are either listed, listed as the anhydrous compound or exempt.
- Japan (ENCS) Inventory Status: All components either listed or exempt.
- China (PRC) Inventory (MEP) Status: All components either listed or exempt.

16. OTHER INFORMATION


Complete Text of H phrases referred to in Section 3: Not applicable

Revision Summary: Substantial revision to comply with EU Reg 1272/2008, Reg 1907/2006 and UN GHS (ST/SG/AC.10/36/Add.3).

Date of MSDS Preparation:
- Day: 01
- Month: May
- Year: 2014

MSDS Prepared: MSDS prepared by Product Compliance Department extension 3350

CCOHS Evaluation Note: It is offered under exemption from WHMIS labeling as specified in the Controlled Products Regulation (CPR) Section 17.

Legend:
- NA - Not Applicable
- w/w - weight/weight
- ND - Not Determined
- w/v - weight/volume
- NV - Not Available
- v/v - volume/volume

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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