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# SAFETY DATA SHEET

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Buffer Powder Pillows pH  $6.00 \pm 0.02$  at 25°C

Catalog Number: 1405566

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

MSDS Number: M00054 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: Buffer

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

### 2. HAZARDS IDENTIFICATION

GHS Classification:

Acute Toxicity: Acute Tox. 4-Orl . Serious Eye Damage/Eye Irritation: Eye Dam. 1 Hazard categories:

GHS Label Elements:





Hazard statements: . Harmful if swallowed. Causes serious eye damage.

**Precautionary statements:** Wear protective gloves / protective clothing / eye protection / face protection. Do no eat, drink or smoke when using this product. Wear eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Immediately call a POISON CENTER or doctor/physician. Rinse mouth. If skin irritation occurs: Get medical advice/attention. Dispose of contents/container according to state, local, federal or national regulations.

HMIS:

Health: 2 Flammability: 0 Reactivity: 0

**Protective Equipment:** X - See protective equipment, Section 8.

NFPA:

Health: 1 Flammability: 0 Reactivity: 0

Symbol: Not applicable

WHMIS Hazard Classification: Class D, Division 2, Subdivision B - Toxic material (other toxic effects)

**WHMIS Symbols:** Other Toxic Effects

# 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components according to GHS:

**Disodium Succinate** 

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**CAS Number:** 150-90-3

*Chemical Formula:* C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>Na<sub>2</sub>

GHS Classification: Acute Tox. Orl. 4, H302 Percent Range (Trade Secret): 90.0 - 100.0 Percent Range Units: weight / weight

**PEL:** 15 mg/m<sup>3</sup> as inhalable dust; 5 mg/m<sup>3</sup> as respirable dust **TLV:** 10 mg/m<sup>3</sup> as inhalable dust; 3 mg/m<sup>3</sup> as respirable dust

WHMIS Symbols: Not applicable

Succinic Acid

**CAS Number:** 110-15-6

Chemical Formula: HOOCCH2CH2COOH

GHS Classification: Acute Tox 5-Orl, H303; Skin Irrit 2, H315; Eye Dam 1, H318; STOT Single 3, H335

Percent Range (Trade Secret): 1.0 - 10.0 Percent Range Units: weight / weight

**PEL:** 15 mg/m³ as inhalable dust; 5 mg/m³ as respirable dust **TLV:** 10 mg/m³ as inhalable dust; 3 mg/m³ as respirable dust

WHMIS Symbols: Other Toxic Effects

# 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.

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

Skin Contact (First Aid): Wash skin with soap and plenty of water.

Inhalation: Remove to fresh air.

Ingestion (First Aid): Give large quantities of water. Call physician immediately.

### 5. FIRE FIGHTING MEASURES

Flammable Properties: During a fire, this product decomposes to form toxic gases.

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

gear.

Extinguishing Media: Water. Carbon dioxide Dry chemical.

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

Fire / Explosion Hazards: None reported

Hazardous Combustion Products: Toxic fumes of: carbon monoxide, carbon dioxide.

## 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:** Scoop up spilled material into a large beaker and dissolve with water. Flush the spilled material to the drain with a large excess of water. Decontaminate the area of the spill with a soap solution.

Evacuation Procedure: Evacuate local area (15 foot radius or as directed by your facility's emergency response plan)

when: a pound or more of loose powder is spilled. If conditions warrant, increase the size of the evacuation.

DOT Emergency Response Guide Number: Not applicable

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Handling: Avoid contact with eyes skin Do not breathe dust. Wash thoroughly after handling.

**Storage:** Keep away from: oxidizers Keep container tightly closed when not in use.

Flammability Class: Not applicable

# 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Maintain general industrial hygiene practices when using this product. Have an eyewash station

nearby.

Personal Protective Equipment:

**Eye Protection:** safety glasses with top and side shields

**Skin Protection:** disposable latex gloves **Inhalation Protection:** adequate ventilation

Precautionary Measures: Avoid contact with: eyes skin Do not breathe: dust Wash thoroughly after handling.

Keep away from: oxidizers *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: White powder

Physical State: Solid

Molecular Weight: Not applicable

Odor: None

*Odor Threshold:* Odorless *pH*: 0.8% soln = 6.00 *Metal Corrosivity:* 

Corrosivity Classification: Classified as corrosive to eyes. Not additionally classified as corrosive to metals.

**Steel:** Not determined **Aluminum:** Not determined

Specific Gravity/Relative Density (water = 1; air =1): 1.72

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: 185°C

Decomposition Temperature: Not determined

Boiling Point: Not applicable

Vapor Pressure: Not applicable

Vapor Density (air = 1): Not applicable

Evaporation Rate (water = 1): Not applicable

Volatile Organic Compounds Content: Not applicable

Flammable Properties: During a fire, this product decomposes to form toxic gases.

Flash Point: Not applicable Method: Not applicable Flammability Limits:

Lower Explosion Limits: Not applicable Upper Explosion Limits: Not applicable Autoignition Temperature: Not determined

**Explosive Properties:** 

Not classified according to GHS criteria.

Oxidizing Properties:

Not classified according to GHS criteria.

Reactivity Properties:

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Not classifed 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:** May react violently in contact with: oxidizers **Hazardous Decomposition:** Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide.

Conditions to Avoid: Heating to decomposition. Excess moisture

### 11. TOXICOLOGICAL INFORMATION

Toxicokinetics, Metabolism and Distribution: No information available for mixture.

Toxicologically Synergistic Products: None reported

Acute Toxicity: Acute Toxicity Estimate (ATE) - Calculated from Ingredient Toxicity Data

ATE LD50 Rat Oral = 1236mg/kg

Not applicable Not applicable

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:** Irritating to skin.

Eye Damage: Corrosive to eyes.

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: gastrointestinal tract irritation diarrhea weakness

Inhalation: May cause: irritation of nose and throat

Skin Absorption: None Reported

Chronic Effects: Chronic overexposure may cause central nervous system effects

Medical Conditions Aggravated: None reported

# 12. ECOLOGICAL INFORMATION

Product Ecological Information: --

No ecological data available for this product.

Ingredient Ecological Information: --

No ecological data available for the ingredients of this product.

## 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

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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
```

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Hazard Class: NA Subsidiary Risk: NA ID Number: NA Packing Group: NA Marine Pollutant:

**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:

**O.S.H.A.:** This product meets the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

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.

302 (EHS) TPQ (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

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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: Not determined New Zealand Inventory (NZIoC) Status: Not determined

Korean Inventory (KECI) Status: Not determined Japan (ENCS) Inventory Status: Not determined China (PRC) Inventory (MEP) Status: Not determined

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### 16. OTHER INFORMATION

References: Vendor Information. TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. CCINFO RTECS. Canadian Centre for Occupational Health and Safety. Hamilton, Ontario Canada: 30 June 1993. Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. 29 CFR 1900 - 1910 (Code of Federal Regulations - Labor). Technical Judgment.

Complete Text of H phrases referred to in Section 3: H302 Harmful if swallowed. Not applicable H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation.

Revision Summary: . Updates in Section(s) 14,

Date of MSDS Preparation:

**Day:** 20

*Month:* February *Year:* 2015

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. It is offered under the interim policy that was established by Health Canada permitting use of GHS-formatted safety data sheets in Canada prior to revision of CPR to GHS. This product has been classified and labeled in accordance with the requirements of GHS (ST/SG/AC.10/36/Add.3). This SDS has been prepared in accordance with the requirements of GHS (ST/SG/AC.10/36/Add.3).

### 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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