1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** FerroMo® Iron Reagent 1 Powder Pillows

**Catalog Number:** 2543768

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

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

**MSDS Number:** M00631

**Chemical Name:** Not applicable

**CAS No.:** Not applicable

**Chemical Formula:** Not applicable

**Chemical Family:** Not applicable

**Hazard:** May cause allergic reaction. May cause irritation.

**Date of MSDS Preparation:**
Day: 4
Month: 05
Year: 2002

2. COMPOSITION / INFORMATION ON INGREDIENTS

**Glucose**

**CAS No.:** 50997

**TSCA CAS Number:** 50-99-7

**Percent Range:** 65.0 - 75.0

**Percent Range Units:** weight / weight

**LD50:** Oral rat LD50 = 25800 mg/kg

**LC50:** None reported

**TLV:** Not established

**PEL:** Not established

**Hazard:** Practically non-toxic.

**Sodium Thiosulfate**

**CAS No.:** 10102-17-7

**TSCA CAS Number:** 7772-98-7

**Percent Range:** 1.0 - 5.0

**Percent Range Units:** weight / weight

**LD50:** Oral rat LD50 > 8 gm/kg

**LC50:** None reported

**TLV:** Not established

**PEL:** Not established

**Hazard:** May cause irritation.

**Sodium Hydrosulfite**

**CAS No.:** 7775-14-6

**TSCA CAS Number:** 7775-14-6

**Percent Range:** 5.0 - 10.0

**Percent Range Units:** weight / weight

**LD50:** Oral rat LD50 > 500 mg/kg

**LC50:** None reported

**TLV:** Not established

**PEL:** Not established
**Hazard:** Allergen Causes moderate eye irritation. Flammable solid.

**Other component**
- **CAS No.:** Not applicable
- **TSCA CAS Number:** Not applicable
- **Percent Range:** < 1.0
- **Percent Range Units:** weight / weight
- **LD50:** Not applicable
- **LC50:** Not applicable
- **PEL:** Not established

**Hazard:** Any ingredient(s) of this product listed as Other component(s) is not considered a health hazard to the user of this product.

**Sodium Metabisulfite**
- **CAS No.:** 7681-57-4
- **TSCA CAS Number:** 7681-57-4
- **Percent Range:** 5.0 - 15.0
- **Percent Range Units:** weight / weight
- **LD50:** Oral rat LD\(_{50} = 2000\) mg/kg
- **LC50:** None reported
- **TLV:** 5 mg/m\(^3\) (ACGIH - TWA)
- **PEL:** 5 mg/m\(^3\) (USOSHA)

**Hazard:** May cause irritation. May cause allergic reaction.

---

### 3. HAZARDS IDENTIFICATION

**Emergency Overview:**
- **Appearance:** White powder
- **Odor:** Sulfidic
  - MAY CAUSE EYE AND RESPIRATORY TRACT IRRITATION
  - MAY CAUSE ALLERGIC RESPIRATORY REACTION IF SWALLOWED OR INHALED

**HMIS:**
- **Health:** 1
- **Flammability:** 0
- **Reactivity:** 0
- **Protective Equipment:** X - See protective equipment, Section 8.

**NFPA:**
- **Health:** 1
- **Flammability:** 0
- **Reactivity:** 0
- **Symbol:** Not applicable

**Potential Health Effects:**
- **Eye Contact:** May cause irritation
- **Skin Contact:** No effects are anticipated
- **Skin Absorption:** No effects anticipated
- **Target Organs:** Not applicable
- **Ingestion:** May cause: allergic respiratory reaction gastrointestinal irritation diarrhea circulatory disturbances central nervous system depression Very large doses may cause: colic depression death
- **Target Organs:** None reported
- **Inhalation:** May cause: allergic respiratory reaction respiratory tract irritation difficult breathing sweating rapid pulse and respirations blood pressure changes coughing flushing hives
- **Target Organs:** None reported

**Medical Conditions Aggravated:** Sulfites are strong sensitizers. Inhalation and ingestion may cause allergic respiratory reactions in asthmatics. Persons with respiratory conditions should take special care when working with products that contain sulfites.

**Chronic Effects:** Chronic overexposure may cause allergic respiratory reactions

**Cancer / Reproductive Toxicity Information:**
- This product does NOT contain any OSHA listed carcinogens.
An ingredient of this mixture is: IARC Group 3: Nonclassifiable
Metabisulfites
This product does NOT contain any NTP listed chemicals.

Additional Cancer / Reproductive Toxicity Information: Contains: an experimental mutagen.
Toxicologically Synergistic Products: None reported

4. FIRST AID

Eye Contact: Immediately flush eyes with water for 15 minutes. Call physician.
Skin Contact (First Aid): Wash skin with soap and plenty of water.
Ingestion (First Aid): Give large quantities of water. Call physician immediately.
Inhalation: Remove to fresh air. Give artificial respiration if necessary. Call physician.

5. FIRE FIGHTING MEASURES

Flammable Properties: Combustion generates toxic fumes.
Flash Point: Not applicable
Method: Not applicable
Flammability Limits:
  Lower Explosion Limits: Not applicable
  Upper Explosion Limits: Not applicable
Autoignition Temperature: Not available
Hazardous Combustion Products: Toxic fumes of: sulfur oxides. sodium monoxide  carbon monoxide, carbon dioxide.
Fire / Explosion Hazards: May react violently with: strong oxidizers
  Static Discharge: None reported.
  Mechanical Impact: None reported
Extinguishing Media: Use media appropriate to surrounding fire conditions
Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

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. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Flush reacted material to the drain with a large excess of water. 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.
  Special Instructions (for accidental release): Not applicable
  304 EHS RQ (40 CFR 355): Not applicable
  D.O.T. Emergency Response Guide Number: None

7. HANDLING / STORAGE

Handling: Avoid contact with eyes Do not breathe dust. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.
Storage: Protect from: heat moisture Keep away from: oxidizers Store between 10 and 25 C.
Flammability Class: Not applicable

8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

Engineering Controls: Have an eyewash station nearby. Maintain general industrial hygiene practices when using this product.
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 Do not breathe: dust Wash thoroughly after handling. Protect from: heat moisture Keep away from: oxidizers

**TLV:** Not established

**PEL:** Not established

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### 9. PHYSICAL / CHEMICAL PROPERTIES

- **Appearance:** White powder
- **Physical State:** Solid
- **Molecular Weight:** Not applicable
- **Odor:** Sulfidic
- **pH:** 5% soln. = 5.65
- **Vapor Pressure:** Not applicable
- **Vapor Density (air = 1):** Not applicable
- **Boiling Point:** Not applicable
- **Melting Point:** 145-148 °C; 293-298 °F
- **Specific Gravity (water = 1):** Not applicable
- **Evaporation Rate (water = 1):** Not applicable
- **Volatile Organic Compounds Content:** Not applicable
- **Partition Coefficient (n-octanol / water):** Not applicable

**Solubility:**
- **Water:** Soluble
- **Acid:** Soluble
- **Other:** Not determined

**Metal Corrosivity:**
- **Steel:** 0.043 in/yr
- **Aluminum:** 0.012 in/yr

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### 10. STABILITY / REACTIVITY

- **Chemical Stability:** Stable when stored under proper conditions.
- **Conditions to Avoid:** Heat Excess moisture
- **Reactivity / Incompatibility:** Incompatible with: oxidizers
- **Hazardous Decomposition:** Heating to decomposition releases toxic and/or corrosive fumes of: sulfur oxides carbon monoxide carbon dioxide
- **Hazardous Polymerization:** Will not occur.

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### 11. TOXICOLOGICAL INFORMATION

**Product Toxicological Data:**
- **LD50:** None reported
- **LC50:** None reported

**Dermal Toxicity Data:** None reported

**Skin and Eye Irritation Data:** None reported

**Mutation Data:** Sodium Metabisulfite: Cytogenetic analysis hamster ovary 180 µg/l; Sister chromatid exchange on hamster ovary @ 200 µg/l

**Reproductive Effects Data:** Sodium Metabisulfite: Oral rat TDLo = 20 g/kg - effects on newborn - stillbirth; Oral rat TDLo = 40 g/kg - effects on newborn - weaning or lactation index

**Ingredient Toxicological Data:** Glucose Oral rat LD50 = 25800 mg/kg; Sodium Hydrosulfite Oral rat LD50 > 500 mg/kg; Sodium Thiosulfate Oral rat LD50 > 8 g/kg

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### 12. ECOLOGICAL INFORMATION

**Product Ecological Information:** --

No ecological data available for this product.
**Ingredient Ecological Information:** Sodium Metabisulfite: 120 ppm/24, 48 & 96 hours / mosquito fish / TLm / fresh water (converting bisulfite to metabisulfite)

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### 13. DISPOSAL CONSIDERATIONS

**EPA Waste ID Number:** None  
**Special Instructions (Disposal):** Dilute material with excess water making a weaker than 5% solution. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system.  
**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.

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### 14. TRANSPORT INFORMATION

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

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

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

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### 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.  
**C.P.S.C.:** Not applicable  

**State Regulations:**  
**California Prop. 65:** No Prop. 65 listed chemicals are present in this product.  
**Identification of Prop. 65 Ingredient(s):** None  

**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).  
**TSCA CAS Number:** Not applicable
16. OTHER INFORMATION

**Intended Use:** Iron determination


Legend:

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<th>Description</th>
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</tbody>
</table>

**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.**

HACH COMPANY ©2002
Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

*Product Name:* FerroMo® Iron Reagent 2 Powder Pillows  
*Catalog Number:* 2543866

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

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

*MSDS Number:* M00632  
*Chemical Name:* Not applicable  
*CAS No.*: Not applicable  
*Chemical Formula:* Not applicable  
*Chemical Family:* Not applicable  
*Hazard:* May cause irritation.  
*Date of MSDS Preparation:*  
*Day:* 4  
*Month:* 05  
*Year:* 2002

2. COMPOSITION / INFORMATION ON INGREDIENTS

2,4,6-Tri-(2-Pyridyl)-1,3,5-Triazine 1:3 Salt with p-Toluenesulfonic acid  
*CAS No.:* None  
*TSCA CAS Number:* None  
*Percent Range:* < 1.0  
*Percent Range Units:* weight / weight  
*LD50:* None reported  
*LC50:* None reported  
*TLV:* Not established  
*PEL:* Not established  
*Hazard:* May cause irritation. Toxic properties unknown.

Citric acid, monosodium salt  
*CAS No.:* 18996-35-5  
*TSCA CAS Number:* 18996-35-5  
*Percent Range:* > 99.0  
*Percent Range Units:* weight / weight  
*LD50:* None reported  
*LC50:* None reported  
*TLV:* Not established  
*PEL:* Not established  
*Hazard:* May cause irritation.

3. HAZARDS IDENTIFICATION

*Emergency Overview:*  
*Appearance:* White to off-white powder  
*Odor:* Odorless  
  MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION
HMIS:
- Health: 1
- Flammability: 1
- Reactivity: 0

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

NFPA:
- Health: 1
- Flammability: 1
- Reactivity: 0
- Symbol: Not applicable

Potential Health Effects:
- Eye Contact: May cause irritation
- Skin Contact: May cause irritation
- Skin Absorption: No effects anticipated
- Target Organs: Not applicable
- Ingestion: May cause gastrointestinal disturbances
- Target Organs: None reported
- Inhalation: May cause respiratory tract irritation
- Target Organs: None reported

Medical Conditions Aggravated: None reported

Chronic Effects: Citric acid chronic overexposure may cause effects due to the ability of citric acid to chelate metals, which could impair the body's ability to absorb calcium and iron.

Cancer / Reproductive Toxicity Information:
- This product does NOT contain any OSHA listed carcinogens.
- This product does NOT contain any IARC listed chemicals.
- This product does NOT contain any NTP listed chemicals.

Additional Cancer / Reproductive Toxicity Information: None reported

Toxicologically Synergistic Products: None reported

4. FIRST AID

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

Skin Contact (First Aid): Wash skin with plenty of water. Call physician if irritation develops.

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

Inhalation: Remove to fresh air. Give artificial respiration if necessary. Call physician.

5. FIRE FIGHTING MEASURES

Flammable Properties: Combustion generates toxic fumes.
- Flash Point: Not applicable
- Method: Not applicable

Flammability Limits:
- Lower Explosion Limits: Not applicable
- Upper Explosion Limits: Not applicable

Autoignition Temperature: Not available

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

Fire / Explosion Hazards: None reported

Static Discharge: None reported.

Mechanical Impact: None reported

Extinguishing Media: Use media appropriate to surrounding fire conditions

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

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(u)(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. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Flush reacted material to the drain with a large excess of water. 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.

**Special Instructions (for accidental release):** Not applicable

**304 EHS RQ (40 CFR 355):** Not applicable

**D.O.T. Emergency Response Guide Number:** None

### 7. HANDLING / STORAGE

**Handling:** Avoid contact with eyes skin Do not breathe dust. Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.

**Storage:** Protect from: heat moisture Keep away from: oxidizers Store between 10 and 25 C.

**Flammability Class:** Not applicable

### 8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

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

**Personal Protective Equipment:**
- **Eye Protection:** safety glasses with top and side shields
- **Skin Protection:** disposable latex gloves lab coat
- **Inhalation Protection:** adequate ventilation

**Precautionary Measures:** Avoid contact with: eyes skin Do not breathe: dust Wash thoroughly after handling. Protect from: heat moisture Keep away from: oxidizers

**TLV:** Not established

**PEL:** Not established

### 9. PHYSICAL / CHEMICAL PROPERTIES

**Appearance:** White to off-white powder

**Physical State:** Solid

**Molecular Weight:** Not applicable

**Odor:** Odorless

**pH:** 5% solution = 3.6

**Vapor Pressure:** Not applicable

**Vapor Density (air = 1):** Not applicable

**Boiling Point:** Not applicable

**Melting Point:** 214-215 C; 417-419 F

**Specific Gravity (water = 1):** 0.972

**Evaporation Rate (water = 1):** Not applicable

**Volatile Organic Compounds Content:** Not applicable

**Partition Coefficient (n-octanol / water):** Not applicable

**Solubility:**
- **Water:** Slightly soluble
- **Acid:** Slightly soluble
- **Other:** Not determined

**Metal Corrosivity:**
- **Steel:** 0.037 in/yr
- **Aluminum:** 0.004 in/yr

### 10. STABILITY / REACTIVITY

**Chemical Stability:** Stable when stored under proper conditions.

**Conditions to Avoid:** Heat Excess moisture
Reactivity / Incompatibility: Incompatible with oxidizers
Hazardous Decomposition: Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide.
Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Product Toxicological Data:
LD50: None reported
LC50: None reported
Dermal Toxicity Data: None reported
Skin and Eye Irritation Data: None reported
Mutation Data: None reported
Reproductive Effects Data: None reported
Ingredient Toxicological Data: --
No toxicological data available for the ingredients of this product.

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: None
Special Instructions (Disposal): Dilute material with excess water making a weaker than 5% solution. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system.
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 maybe superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

14. TRANSPORT INFORMATION

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

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.  
C.P.S.C.: Not applicable  
State Regulations:  
California Prop. 65: No Prop. 65 listed chemicals are present in this product.  
Identification of Prop. 65 Ingredient(s): Not applicable  
Trade Secret Registry: Not applicable  
National Inventories:  
U.S. Inventory Status: This product contains a chemical(s) exempt from the TSCA 8(b) Inventory due to a Low Volume Exemption held by Hach Company.  
TSCA CAS Number: Not applicable  
2,4,6-Tri-(2-Pyridyl)-1,3,5-Triazine 1:3 Salt with p-toluenesulfonic acid. This chemical may only be used for the determination of iron in water.

16. OTHER INFORMATION  

Intended Use: Iron determination  

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

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HACH COMPANY ©2002