MSDS No: M00043

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

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: Potassium 1 Reagent Powder Pillows Catalog Number: 1432198

HACH LANGE GmbH	Emergency Telephone Nu	mbers:	
Willstätterstrasse 11	(Poison Information Cente	(Poison Information Center Main)	
40549 Düsseldorf, Germany	(+49 (0) 6131 19240)	24 HR	
+49-(0)211-52880			
SDS Number: M00043			
		G 1	
Chemical Name: Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, Tetrasodium Salt			
<i>Chemical Formula:</i> C ₁₀ H ₁₂ N ₂ Na ₄ O ₈ 2H ₂ O			
Chemical Family: Substituted organic acid			
Use of the substance/preparation: Laboratory Reagent			
CAS No.: 64-02-8			
Hazard: May cause irritation.			
Date of MSDS Preparation:			
Day: 08			
<i>Month:</i> May			
Year: 2007			
Additional Emergency Response Numbers: Aus	tria: +49 (0)6131 19240, Belgiun	m: +32-(0)70-245245,	
France: +33-(0)1-40370404, Italy: +39-02-6610	1029, Netherlands: +31-(0)30-27	48888, Switzerland: +41-	
(0)1-2515151	· · · · · · · · · · · · · · · · · · ·		

2. COMPOSITION / INFORMATION ON INGREDIENTS

EDTA Tetrasodium Salt

EEC Number: 2005739 CAS No.: 64-02-8 Percent Range: 100,0 Percent Range Units: weight / weight Ingredient EEC Symbol: Xi - IRRITATING Ingredient R phrase(s) (R phrase details given in Heading 16): R 36/37/38 TLV: Not established PEL: Not established EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

3. HAZARDS IDENTIFICATION

Emergency Overview:
Appearance: White powder
Odor: None
EU Symbols: Xi - IRRITATING
R PHRASES: R 36/37/38: Irritating to eyes, respiratory system and skin.

Protective Equipment:
Potential Health Effects:
Eye Contact (EC): Causes moderate irritation
Skin Contact (EC): Causes moderate irritation
Skin Absorption (EC): No effects anticipated
Target Organs (SA E): Not applicable
Ingestion (EC): May cause: calcium deficiency in the blood Very large doses may cause: gastrointestinal
tract irritation fever kidney damage
Target Organs (Ing E): Kidneys
Inhalation: May cause: irritation of nose and throat
Target Organs (Inh E): None Reported
Medical Conditions Aggravated: None reported
Chronic Effects: Chronic overexposure may cause kidney damage
Cancer / Reproductive Toxicity Information:
IARC Listed: No

Additional Cancer / Reproductive Toxicity Information: None reported Toxicologically Synergistic Products: None reported

4. FIRST AID MEASURES

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.

5. FIRE FIGHTING MEASURES

Flammable Properties: Can burn in fire, releasing toxic vapors.
Hazardous Combustion Products: Toxic fumes of: carbon monoxide, carbon dioxide. nitrogen oxides. sodium monoxide
Fire / Explosion Hazards: None reported
Static Discharge: None reported.
Mechanical Impact: None reported
Extinguishing Media: Use media appropriate to surrounding fire conditions
Extinguishing Media NOT To Be Used: Not applicable
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 should respond to a spill involving chemicals. See Section 13, Special Instructions for disposal assistance.

Containment Technique: Stop spilled material from being released to the environment. Cover spilled solid material with sand or other inert material.

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 acid, such as sulfuric or citric. Flush reacted material to the drain with a large excess of water. Decontaminate the area of the spill with a weak acid solution.

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

7. HANDLING AND 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
Special Packaging Instructions: Not applicable
Use of the substance/preparation: Laboratory Reagent

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 / Hand 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
TLV: Not established
PEL: Not established
EU Occupational Exposure Limits: 3 mg/m³, Inhalable dust

9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: White powder Physical State: Solid Odor: None *pH*: of a 1% solution = 11 Vapor Pressure: Not applicable *Vapor Density (air = 1):* Not applicable **Boiling Point:** Not applicable *Melting Point:* > 300 °C >572 °F Flash Point: Not applicable *Method:* Not applicable Autoignition Temperature: Not determined Flammability Limits: Lower Explosion Limits: Not applicable Upper Explosion Limits: Not applicable *Specific Gravity (water = 1):* Not determined *Evaporation Rate (water = 1):* Not applicable Volatile Organic Compounds Content: Not determined *Partition Coefficient (n-octanol / water):* Not applicable Solubility: Water: Soluble Acid: Not determined **Other:** Soluble in alcohol Metal Corrosivity: Steel: 0,000 in/yr Aluminum: 0,000 in/yr

10. STABILITY / REACTIVITY

Chemical Stability: Stable when stored under proper conditions. *Conditions to Avoid:* Extreme temperatures Excess moisture *Reactivity / Incompatibility:* Incompatible with: oxidizers *Hazardous Decomposition:* Heating to decomposition releases toxic and/or corrosive fumes of: carbon dioxide carbon monoxide nitrogen oxides 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: Skin rabbit 500mg/24H, MODERATE; Eye rabbit 1900µg; Eye rabbit 100mg/24H, MODERATE Mutation Data: None reported Reproductive Effects Data: None reported ---

Ingredient Toxicological Data: Not applicable

IARC Listed: No

12. ECOLOGICAL INFORMATION

Product Ecological Information: BOD 0.02 g/g; COD 0.54 g/g; Fish toxicity: Bluegill LC50 = 410 mg/l for 96 hours.

Ingredient Ecological Information: -- Not applicable

13. DISPOSAL CONSIDERATIONS

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

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I.C.A.O.:

I.C.A.O. Proper Shipping Name: Not Currently Regulated

ICAO Hazard Class: NA

ICAO Subsidiary Risk: NA

ICAO UN/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. UN Number: NA

I.M.O. Packing Group: NA

A.D.R.:

A.D.R. Proper Shipping Name: Not Currently Regulated

I.C.A.O. Packing Group: NA

A.D.R.:

A.D.R. Proper Shipping Name: Not Currently Regulated

I.C.A.O. Packing Class: NA
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A.D.R. Subsidiary Risk: NA A.D.R. UN-Number:: NA A.D.R. Packing Group: NA

Additional Information: This product may be shipped as part of a chemical kit composed of various compatible dangerous goods for analytical or testing purposes. This kit would have the following classification: Proper Shipping Name: Chemical Kit Hazard Class: 9 UN Number 3316

15. REGULATORY INFORMATION

National Inventories:

EEC Inventory Status: EINECS Listed: Yes EEC Number: 2005739
EEC LABEL COPY: EU Symbols: Xi - IRRITATING
R PHRASES: R 36/37/38: Irritating to eyes, respiratory system and skin.
S PHRASES: S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 36: Wear suitable protective clothing.

16. OTHER INFORMATION

References: TLV's Threshold Limit Values and Biological Exposure Indices for 1992-1993. American Conference of Governmental Industrial Hygienists, 1992. Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. The Merck Index, 11th Ed. Rahway, New Jersey: Merck and Co., Inc., 1989. Sax, N. Irving. Dangerous Properties of Industrial Materials, 7th Ed. New York: Van Nostrand Reinhold Co., 1989. Technical Judgment. Gosselin, R. E. et al. Clinical Toxicology of Commercial Products, 5th Ed. Baltimore: The Williams and Wilkins Co., 1984. In-house information. Vendor Information.

R PHRASES: R 36/37/38: Irritating to eyes, respiratory system and skin. Use of the substance/preparation: Laboratory Reagent Revision Summary: European MSDS Only Updates in Heading(s) 2,

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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