1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Glucose
Catalog Number: 1125153

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: M00664
Chemical Name: D-Glucose
CAS No.: 50-99-7
Chemical Formula: C₆H₁₂O₆
Chemical Family: Heterocyclic Compounds
PIN: NA
Intended Use: Laboratory Reagent
Date of MSDS Preparation:
Day: 23
Month: 09
Year: 2005
MSDS Prepared: MSDS prepared by Product Compliance Department extension 3350

2. COMPOSITION / INFORMATION ON INGREDIENTS

Glucose
Percent Range: 100.0
Percent Range Units: weight / weight
CAS No.: 50-99-7
LD₅₀: Oral rat LD₅₀ = 25800 mg/kg
LC₅₀: None reported
TLV: Not established
PEL: Not established
Ingredient WHMIS Symbol: Not applicable

3. HAZARDS IDENTIFICATION

Emergency Overview:
Appearance: White crystals
Physical State: Solid
Odor: Odorless

HMIS:
Health: 0
Flammability: 1
Reactivity: 0
Protective Equipment: X - See protective equipment, Section 8.
Potential Health Effects:
Eye Contact: No effects are anticipated
Skin Contact: No effects are anticipated
Skin Absorption: No effects anticipated
Target Organs: Not applicable
Ingestion: Very large doses may cause: gastrointestinal disturbances
Target Organs: None reported
Inhalation: No effects anticipated
Target Organs: Not applicable
Medical Conditions Aggravated: None reported
Chronic Effects: None reported
Cancer / Reproductive Toxicity Information:
IARC Listed: No
NTP Listed: No

Additional Cancer / Reproductive Toxicity Information: None reported
Toxicologically Synergistic Products: None reported
WHMIS Hazard Classification: Not applicable
WHMIS Symbols: Not applicable

4. FIRST AID

Eye Contact: Flush eyes with water. Call physician if irritation develops.
Skin Contact (First Aid): Wash skin with plenty of water.
Ingestion (First Aid): Give large quantities of water. Call physician immediately.
Inhalation: None required.

5. FIRE FIGHTING MEASURES

Flammable Properties: Can burn in fire, releasing toxic vapors.
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: 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 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.
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 as needed to perform spill clean-up. If conditions warrant, increase the size of the evacuation.
D.O.T. Emergency Response Guide Number: None

7. HANDLING / STORAGE

Handling: Wash thoroughly after handling. Maintain general industrial hygiene practices when using this product.
8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

_**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:** Not applicable
- **Inhalation Protection:** adequate ventilation
- **Precautionary Measures:** Wash thoroughly after handling. Protect from: heat Keep away from: oxidizers

**TLV:** Not established
**PEL:** Not established

9. PHYSICAL / CHEMICAL PROPERTIES

- **Appearance:** White crystals
- **Physical State:** Solid
- **Molecular Weight:** 180.18
- **Odor:** Odorless
- **pH:** 0.5M solution = 5.9
- **Vapor Pressure:** Not applicable
- **Vapor Density (air = 1):** Not applicable
- **Boiling Point:** Not applicable
- **Melting Point:** 146°C; 295°F
- **Specific Gravity (water = 1):** 1.544
- **Evaporation Rate (water = 1):** Not applicable
- **Volatile Organic Compounds Content:** Not applicable
- **Coefficient of Water / Oil:** Not available

**Solubility:**
- **Water:** Soluble
- **Acid:** Soluble
- **Other:** Alcohol

**Metal Corrosivity:**
- **Steel:** Not determined
- **Aluminum:** Not determined

10. STABILITY / REACTIVITY

- **Chemical Stability:** Stable when stored under proper conditions.
- **Conditions to Avoid:** Heat
- **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:** Oral rat LD50 = 25800 mg/kg
- **LC50:** None reported
- **Dermal Toxicity Data:** None reported
- **Skin and Eye Irritation Data:** None reported
- **Mutation Data:** No mammalian data reported
- **Reproductive Effects Data:** Intraperitoneal rat TDLo = 300 g/kg (30 day pregnant): Reproductive effects
- **Ingredient Toxicological Data:** --
  - Not applicable
12. ECOLOGICAL INFORMATION

Product Ecological Information: --
No ecological data available for this product.
Ingredient Ecological Information: --
Not applicable

13. DISPOSAL CONSIDERATIONS

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. 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.

14. TRANSPORT INFORMATION

T.D.G.:

Proper Shipping Name: Not Currently Regulated

Hazard Class: NA
PIN: NA
Group: NA
Subsidiary Risk: 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:

Canadian Inventory Status: DSL Listed: Yes
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION


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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