

SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Gel Battery 12V, 40AMP Hour
Catalog Number: 8712600

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: M02088
Chemical Name: Not applicable
CAS Number: Not applicable
Additional CAS No. (for hydrated forms):
Chemical Formula: Not applicable
Chemical Family: Not applicable
Intended Use: Battery

2. HAZARDS IDENTIFICATION

Not applicable

GHS Classification:
Hazard categories: Not applicable
GHS Label Elements:
Not applicable
Hazard statements: Not applicable
Precautionary statements: Not applicable

HMIS:
Health: 0
Flammability:
Reactivity:
Protective Equipment:

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components according to GHS:

Lead

CAS Number: 7439-92-1
Chemical Formula: Pb
GHS Classification: Acute Tox. 4-Orl, H302; Acute Tox. 4-Inh, H332; Muta. 2, H341; Carc. 2, H351; Repr. 1A, H360; Lact. 1, H362; STOT Rep. 1, H372; Aquatic Chronic 1, H410
Percent Range (Trade Secret): 65.0 - 75.0
Percent Range Units: weight / weight
PEL: 0.05 mg/m³ TWA; 0.03 mg/m³ Action Lenel; BEI exist; See 29CFR1910.1025 OSHA Lead Standard
TLV: 0.05 mg/m³ (TWA)

WHMIS Symbols: Other Toxic Effects

Lead Dioxide

CAS Number: 1309-60-0

Chemical Formula: PbO₂

GHS Classification: Ox. Sol. 3, H272; Acute Tox. 4-Orl, H302; Acute Tox. 4-Inh, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Carc. 2, H351; Repr. 1A, H360; Lact. 1, H362; STOT Rep. 1, H372; Aquatic Chronic 1, H410

Percent Range (Trade Secret): 25.0

Percent Range Units: weight / weight

PEL: TWA 0.05 mg(Pb)/m³, Action Level 0.03 mg Pb/m³; BEI exist; See 29CFR1910.1025 Lead Standard

TLV: TWA 0.05 mg(Pb)/m³

WHMIS Symbols: Other Toxic Effects

Sulfuric Acid

CAS Number: 7664-93-9

Chemical Formula: H₂SO₄

GHS Classification: Met. Corr. 1 H290; Skin Corr. 1A, H314; Aquatic Acute 3, H402

Percent Range (Trade Secret): 1-25 (varies based of age and condition of battery)

Percent Range Units: weight / weight

PEL: 1 mg/m³

TLV: 1 mg/m³

WHMIS Symbols: Acute PoisonCorrosive

4. FIRST AID MEASURES

General Information:

Advice to doctor: Not determined

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

Skin Contact (First Aid): Wash skin with plenty of water for 15 minutes. Remove contaminated clothing. Call physician immediately.

Inhalation: Remove to fresh air.

Ingestion (First Aid): Call physician immediately.

5. FIRE FIGHTING MEASURES

Flammable Properties: May explode when exposed to heat.

Fire Fighting Instruction: As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear. Containers can build up pressure if exposed to heat. Evacuate area and fight fire from a safe distance. Water runoff can cause environmental damage. Dike and collect water used to fight fire.

Extinguishing Media: Alcohol foam. Carbon dioxide Dry chemical.

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

Fire / Explosion Hazards: May explode when heated.

Hazardous Combustion Products: May emit acrid smoke and fumes.

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: Dispose of material in government approved hazardous waste facility.

Evacuation Procedure: Evacuate local area (15 foot radius or as directed by your facility's emergency response plan) when: any quantity is spilled. If conditions warrant, increase the size of the evacuation.

DOT Emergency Response Guide Number:

7. HANDLING AND STORAGE

Handling: Maintain general industrial hygiene practices when using this product.

Storage: Store in a cool place.

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: Not applicable

Skin Protection: Not applicable

Inhalation Protection: Not applicable

Precautionary Measures: Protect from: heat

TLV: Not determined

PEL: Not established

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Battery

Physical State: Solid

Molecular Weight: Not applicable

Odor: None

Odor Threshold: Odorless

pH: Not applicable

Metal Corrosivity:

Corrosivity Classification:

Steel: Not applicable

Aluminum: Not applicable

Specific Gravity/ Relative Density (water = 1; air = 1): Not applicable

Viscosity:

Solubility:

Water: Not applicable

Acid: Not applicable

Other: Not applicable

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

Coefficient of Water / Oil: Not applicable

Melting Point: Not applicable

Decomposition Temperature:

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: May explode when exposed to heat.

Flash Point:

Method:

Flammability Limits:

Lower Explosion Limits:

Upper Explosion Limits:

Autoignition Temperature:

Explosive Properties:

Oxidizing Properties:

Reactivity Properties:

Gas under Pressure:

Not classified according to GHS criteria.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable when stored under proper conditions.

Mechanical Impact:

Static Discharge:

Reactivity / Incompatibility: None reported

Hazardous Decomposition: No hazardous decomposition products known.

Conditions to Avoid: Extreme temperatures

11. TOXICOLOGICAL INFORMATION

Toxicokinetics, Metabolism and Distribution:

Toxicologically Synergistic Products:

Acute Toxicity:

Specific Target Organ Toxicity - Single Exposure (STOT-SE):

Specific Target Organ Toxicity - Repeat Exposure (STOT-RE):

Skin Corrosion/Irritation:

Eye Damage:

Sensitization:

CMR Effects/Properties (carcinogenic, mutagenic or toxic to reproduction):

Symptoms/Effects:

Ingestion: No Effects Anticipated If broken open, may cause: burns of the mouth and esophagus

Inhalation: No effects anticipated If broken open, may cause: respiratory tract irritation

Skin Absorption: None Reported

Chronic Effects:

Medical Conditions Aggravated:

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:

Special Instructions (Disposal): Dispose of material in an E.P.A. approved hazardous waste facility.

Empty Containers: Not applicable

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: Battery, Wet, Non-Spillable

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Hazard Class: 8

Subsidiary Risk: NA

ID Number: UN2800

Packing Group: III

T.D.G.:

Proper Shipping Name: Battery, Wet, Non-spillable

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Hazard Class: 8

Subsidiary Risk: NA

UN Number/PIN: 2800

Packing Group: III

I.C.A.O.:

I.C.A.O. Proper Shipping Name: Battery, Wet, Non-Spillable

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Hazard Class: 8

Subsidiary Risk: NA

ID Number: UN2800

Packing Group: III

I.M.O.:

Proper Shipping Name: Battery, Wet, Non-spillable

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Hazard Class: 8

Subsidiary Risk: NA

ID Number: UN2800

Packing Group: III

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 is an "Article" 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): This product is not hazardous under 29 CFR.1910.1200 and therefore is not covered by Title III under SARA.

S.A.R.A. Title III Section 313 (40 CFR 372): This product contains a chemical(s) subject to the reporting requirements of Section 313 of Title III of SARA.

Lead

302 (EHS) TPQ (40 CFR 355): Sulfuric Acid 1000 lbs.

304 CERCLA RQ (40 CFR 302.4): Sulfuric Acid 1000 lbs. Lead Compounds 10 lbs.

304 EHS RQ (40 CFR 355): Sulfuric Acid - RQ 1000 lbs.

Clean Water Act (40 CFR 116.4): Sulfuric acid - RQ 1000 lbs.

RCRA: Contains no RCRA regulated substances.

State Regulations:

California Prop. 65: WARNING - This product contains a chemical known to the State of California to cause cancer.
WARNING - This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Identification of Prop. 65 Ingredient(s): Lead and lead compounds

California Perchlorate Rule CCR Title 22 Chap 33: Not applicable

Trade Secret Registry:

National Inventories:

U.S. Inventory Status:

CAS Number: Not applicable

Canadian Inventory Status:

EEC Inventory Status:

Australian Inventory (AICS) Status:

New Zealand Inventory (NZIoC) Status:

Korean Inventory (KECI) Status:

Japan (ENCS) Inventory Status:
China (PRC) Inventory (MEP) Status:

16. OTHER INFORMATION

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

Complete Text of H phrases referred to in Section 3:

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: 12

Month: March

Year: 2014

MSDS Prepared: MSDS prepared by Product Compliance Department extension 3350

CCOHS Evaluation Note:

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.

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