

1. PRODUCT & COMPANY IDENTIFICATION

Product Name	Valve Regulated Maintenance Free Lead-Acid Batteries: B250016, B250021, B250022, B250023
Recommended Use	Lead acid battery. Lead Acid (Non-spillable) Battery
Supplier Identifier	
Company Name	Go2Power LLC
Address	2575 Metropolitan Drive, Feasterville-Trevoze, PA 19053
Telephone	(800) 967-5573
Fax	(215) 244-4208
Emergency Telephone	CHEMTREC US (800) 424-9300

2. HAZARDOUS IDENTIFICATION

Emergency Overview

NOTE: Under normal conditions of battery use, internal components will not present a health hazard. The following information is provided for battery acid and lead exposure that may occur during battery production or container breakage or under extreme heat conditions such as fire.

In case of rupture: Corrosive

The product causes burns of eyes, skin and mucous membranes






Appearance: No Information Available

Physical State: Solid

Odor: Odorless

HEALTH		ENVIRONMENTAL		PHYSICAL	
Acute Toxicity (Oral / Dermal / Inhalation)	Category 4	Aquatic	Chronic 1	Explosive Chemical	Division 1.3
Skin Corrosion / Irritation Eye	Category 1A	Aquatic	Acute 1		
Damage	Category 1				
Reproductive Carcinogenicity	Category 1A				
Lead Carcinogenicity	Category 2A				
Acid Mist Specific Target Carcinogenicity	Category 1A				
Repeated Exposure	Category 1A				

Label Elements

HEALTH	ENVIRONMENTAL	PHYSICAL
  		
Hazard Statements	Precautionary Statements	
DANGER! Causes severe skin burns and eye damage. Causes serious eye damage. May damage fertility or the unborn child if ingested or inhaled. May cause cancer if ingested or inhaled. Causes damage to central nervous system, blood and kidneys through prolonged or repeated exposure. May form explosive air/gas mixture during charging. Extremely flammable gas (hydro gen). Explosive, fire, blast or projection hazard	Wash thoroughly after handling . Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing, eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well ventilated area. Causes skin irritation, serious eye damage. Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid. Irritating to eyes, respiratory system, and skin.	

POTENTIAL HEALTH EFFECTS

Principle Routes of Exposure	Skin Contact
Acute Toxicity	
Eyes	Corrosive to the eyes and may cause severe damage including blindness.
Skin	Causes burns.
Inhalation	Harmful by inhalation. Contact with moist mucous membranes of the respiratory system can cause caustic condition resulting in burns.
Ingestion	Harmful if swallowed. Can burn mouth, throat, and stomach.
Chronic Effects	Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Avoid repeated exposure.
Main Symptoms	Severe exposures can lead to shock, circulatory collapse, and death. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite, indigestion, nausea, vomiting, constipation, sleep disturbances and overall weakness.
Aggravated Medical Conditions	None known.
Environment Hazard	See Section 12 for additional Ecological Information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS-NUMBER	WEIGHT %
Lead	7439-92-1	65-75
Sulfuric Acid	7664-93-9	10-20
ABS Resin	9003-56-9	~5
Tin	7440-31-5	<0.5
Calcium	7440-70-2	<0.1

4. FIRST AID MEASURES

General Advice	First aid is upon rupture of sealed battery.
Eye Contact	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes.
Inhalation	Move to fresh air. Call a physician or Poison Control Center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
Ingestion	Immediate medical attention is required. Call a physician or Poison Control Center immediately. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down.
Notes to Physician	Treat symptomatically.
Protection of First Aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flash Point	Hydrogen - 259 °C
Auto Ignition	Hydrogen - 580 °C
Temperature	
Flammable Limits	LEL = 4.1% (Hydrogen Gas in air) ; UEL = 74.2%
Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Uniform Fire Code	Corrosive: Acid-Liquid
Hazardous Combustion Products	Hazardous metal fumes and oxides.
Explosion Data Sensitivity to Mechanical Impact	No
Sensitivity to Static Discharge	No
Specific Hazards Arising from the Chemical	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.
Protective Equipment & Precautions for Firefighters	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health Hazard: 3 Flammability: 0 Stability: 2 Physical & Chemical Hazards

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not get in eyes, on skin, or on clothing.
Environmental Precautions	Refer to protective measures listed in Sections 7 and 8.
Methods of Containment	Prevent further leakage or spillage if safe to do so.
Methods of Cleaning Up	In case of rupture: Use personal protective equipment. Dam up. Soak up with inert absorbent material. Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly.
Other Information	Refer to protective measures listed in Sections 7 and 8.

7. HANDLING & STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.
Charging	There is a possible risk of electric shock from charging equipment and from strings of series connected batteries, whether or not being charged. Shut -off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged may generate and release flammable hydrogen gas. Charging space should be ventilated . Prohibit smoking and avoid creation of flames and sparks nearby. Wear face and eye protection when near batteries being charged.
Other	Follow Manufacturers Recommendations regarding maximum recommended currents and operating temperature range. Do not overcharge beyond the recommended upper charging voltage limit. Applying pressure or deforming the battery may lead to disassembly followed by eye, skin and throat irritation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Label Elements

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
Lead 7439-92-1	TWA: 0.05 mg/m3	TWA: 50 µg/m3 Action Level: 30 µg/m3 Poison, See 29 CFR 1910.1025	IDLH: 100 mg/m3 TWA: 0.050 mg/m3
Sulfuric acid 7664-93-9	TWA: 0.2 mg/m3 thoracic fraction	TWA: 1 mg/m3 (vacated) TWA: 1 mg/m3	IDLH: 15 mg/m3 TWA: 1mg/m3
Tin 7440-31-5	TWA: 2 mg/m3	TWA: 2 mg/m3 Sn except oxides (vacated) TWA: 2mg/m3	IDLH: 100 mg/m3 TWA: 2mg/m3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value.

OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits.

NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines	Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir. , 1992).
Engineering Measures	Showers Eyewash stations Ventilation systems
Personal Protective Equipment	
Eye / Face Protection	Tightly fitting safety goggles.
Skin & Body Protection	Wear protective gloves/clothing.
Respiratory Protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

CONTINUE TO NEXT PAGE

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance & Odor	Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating, pungent odor.
Odor Threshold	Not applicable.
pH	Not applicable.
Boiling Point	Not applicable unless individual components exposed. Battery Electrolyte (Acid) - 230-233.6°F (110-112°C) Lead - 3191 °F (1755 °C)
Melting Point	Lead - 621.32 °F (327.4 °C)
Specific Gravity (H2O=1)	1.215 to 1.350
Flash Point	498.2 °F (259.0 °C) Hydrogen
Evaporation Rate (Butyl Acetate=1)	<1
Vapor Pressure (mm Hg at 20°C)	Battery Electrolyte (Acid) 11.7
Flammability	
Lower Hydrogen Flammability Limit	4.1%
Upper Hydrogen Flammability Limit	74.2%
Vapor Pressure	Not applicable.
Vapor Density	3.4 (Air = 1) Battery Electrolyte (Acid)
Relative Density	1.21 - 1.3 Battery Electrolyte (Acid)
Solubility	Lead and Lead dioxide are not soluble 100% Battery Electrolyte (Acid).
% Volatile by Weight	Not applicable unless individual components exposed.
Partition Coefficient (n-octanol/water)	Not applicable.
Auto-Ignition Temperature	1076 °F (580 °C) Hydrogen.

10. STABILITY & REACTIVITY

Stability	Stable under recommended storage conditions.
Incompatible Products	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
Conditions to Avoid	Exposure to air or moisture over prolonged periods.
Hazardous Decomposition Products	Thermal decomposition can lead to release of toxic/corrosive gases and vapors
Hazardous Polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Irritation	Causes severe irritation and or burns

Component Information

CHEMICAL NAME	LD50 ORAL	LD50 DERMAL	LC50 INHALATION
Sulfuric Acid	= 2140 mg/kg (Rat)		= 510 mg/m3(Rat) 2 h

Chronic Toxicity	Lead compounds may be absorbed by ingestion, by inhalation and through the skin. Lead may damage kidney function, the blood forming system and the reproductive system. Avoid repeated exposure.
Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
Lead	A3	Group 2A	Reasonably Anticipated	X
Sulfuric Acid	A2	Group 1	Known	X
ABS Resin		Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)

A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen

IARC: (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans
Group 2A - Probably Carcinogenic to Humans

NTP: (National Toxicity Program)

Known - Known Carcinogen
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

OSHA: (Occupational Safety & Health Administration)

X - Present

Reproductive Toxicity	Product is or contains a chemical which is a known or suspected reproductive hazard
Developmental Toxicity	Contains ingredients that have suspected developmental hazards. Inorganic compounds can cause developmental damage.
Target Organ Effects	No Known.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

CHEMICAL NAME	TOXICITY TO ALGAE	TOXICITY TO FISH	TOXICITY TO MICROORGANISMS	DAPHNIS MAGNA (WATER FLEAS)
Lead		LC50: 0.44 mg/L (96 h semistatic) Cyprinus carpio LC50: 1.17 mg/L (96h flow-through) Oncorhynchus mykiss LC50: 1.32 mg/L (96 h static) Oncorhynchus mykiss		EC50: 600 µg/L (48 h) water flea
Sulfuric Acid		LC50: > 500 mg/L (96 h static) Brachydanio rerio		EC50: 29 mg/L (24h) Daphnia magna

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Should not be released into the environment.
Contaminated Packaging	Do not re-use empty containers.
US EPA Waste Number	D002 D008

CHEMICAL NAME	RCRA	RCRA - BASIS FOR LISTING	RCRS - D SERIES WASTES	RCRA - U SERIES WASTE
Lead - 7439-92-1	Hazardous Constituent - no waste no.	Included in waste streams: F035, F037, F038, F039, K002, K003, K005, K046, K048, K049, K051, K052, K061, K062, K064, K065, K066, K069, K086, K100, K176s	= 5.0 mg/L regulatory level	

California Hazardous Waste Codes 792

This product contains one or more substances that are listed with the State of California as a hazardous waste.

CHEMICAL NAME	CALIFORNIA EHW	CALIFORNIA CARC	CALIFORNIA HAZARDOUS WASTE	CALIFORNIA WASTE - PART 2
Lead			Toxic	TCLP (for CA Toxicity): 5.0 mg/L
Sulfuric Acid			Toxic Corrosive	
Calcium	Ignitable Reactive			

14. TRANSPORT INFORMATION

Note: Transportation requirements do not apply once the battery pack has been installed in a vehicle as part of the vehicle's functional components.

Transportation: Sealed Lead Acid / OPTIMA Battery is not a DOT Hazardous Material

Other: Per DOT, IATA, ICAO, and IMDG rules and regulations, these batteries are exempt from "UN2800" classification as a result of successful completion of the following tests:

- Vibration tests
- Pressure Differential Tests
- Case Rupturing Tests (no free liquids)

United States DOT: Not regulated as dangerous goods per 49 CFR 173.159d.

IATA: Not regulated as dangerous goods per Special Provision A67.

IMDG: Not regulated as dangerous goods per exception 238.

15. REGULATORY INFORMATION

International Inventories

TSCA: Complies

DSL: Not Determined

U.S. Federal Regulations

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) . This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

CHEMICAL NAME	CAS-NUMBER	WEIGHT %	SARA 313 - THRESHOLD VALUE %
Lead	7439-92-1	65~75	0.2
Sulfuric Acid	7664-93-9	10~20	2.0

SARA 311/312 Hazard Categories Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

CHEMICAL NAME	CWA - REPORTABLE QUANTITIES	CWA - TOXIC POLLUTANTS	CWA - PRIORITY POLLUTANTS	CWA - HAZARDOUS SUBSTANCES
Lead		X	X	
Sulfuric Acid	1000 lbs.			X

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product contains the following substances which are listed hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act:

CHEMICAL NAME	CAS-NUMBER	WEIGHT %	HAPS DATA	VOC CHEMICALS	CLASS 1 OZONE DEPLETERS	CLASS 2 OZONE DEPLETERS
Lead	7439-92-1	65-75				

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

CHEMICAL NAME	HAZARDOUS SUBSTANCES RQs	EXTREMELY HAZARDOUS SUBSTANCES RQs
Lead	10 lbs.	
Sulfuric Acid	1000 lbs.	1000 lbs.

U.S. State Regulations

California Proposition 65: This product contains the following Proposition 65 chemicals:

CHEMICAL NAME	CAS-NUMBER	CALIFORNIA PROPOSITION 65
Lead	7439-92-1	Carcinogen Developmental Female/Male Reproductive
Sulfuric Acid	7664-93-9	Carcinogen

U.S. STATE RIGHT-TO-KNOW REGULATIONS

CHEMICAL NAME	MASSACHUSETTS	NEW JERSEY	PENNSYLVANIA	ILLINOIS	RHODE ISLAND
Lead	X	X	X	X	X
Tin	X	X	X		
Calcium	X	X	X		
Sulfuric Acid	X	X	X	X	X

INTERNATIONAL REGULATIONS

Mexico-Grade: Minimum risk, Grade 0

CHEMICAL NAME	HAZARDOUS SUBSTANCES RQs	EXTREMELY HAZARDOUS SUBSTANCES RQs
Lead	A3	Mexico: TWA= 0.15 mg/m ³
Tin		Mexico: TWA 2 mg/m ³ Mexico: STEL 4 mg/m ³
Sulfuric Acid	A2	Mexico: TWA 1 mg/m ³

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class: D2A Very toxic materials E Corrosive material.



CHEMICAL NAME	NPRI
Lead	X
Sulfuric Acid	X

Legend

NPRI: National Pollutant Release Inventory

16. OTHER INFORMATION

Prepared By	Go2Power LLC 2575 Metropolitan Drive Feasterville-Treose, PA 19053
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Revision Note	No information available

GENERAL DISCLAIMER

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF BATTERY SAFETY DATA SHEET