

(US, CN, EU Version for International Trade)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Valve Regulated Lead Acid Battery

OTHER PRODUCT EV Traction Dry Cell, and Gel Absorbed Electrolyte Sealed, Valve Regulated Battery

NAMES: Battery Non-Spillable 49 CFR 173.159(d)

MANUFACTURER: Discover Energy Corp./ Univision

ADDRESS: 880-999 West Broadway, Vancouver BC Canada, V5Z 1K5

EMERGENCY TELEPHONE NUMBERS: US: INFOTRAC 1-800-535-5053

CN: CHEMTREC 1-800-424-9300 Other: +1-604-730-2877

NON-EMERGENCY HEALTH/SAFETY INFORMATION: +1-604-730-2877

CHEMICAL FAMILY: This product is a gel/absorbed electrolyte type lead acid storage battery.

PRODUCT USE: Industrial, Commercial and Personal use electrical storage batteries.

This product is considered a Hazardous Substance, Preparation or Article that is regulated under US-OSHA; CAN-WHMIS; IOSH; ISO; UK-CHIP; or EU Directives (67/548/EEC-Dangerous Substance Labeling, 98/24/EC-Chemical Agents at Work, 99/45/EC-Preparation Labeling, 2001/58/EC-MSDS Content, and 1907/2006/EC-REACH), and an MSDS/SDS is required for this product considering that when used as recommended or intended, or under ordinary conditions, it may present a health and safety exposure or other hazard.

Additional Information

This product may not be compatible with all environments, such as those containing liquid solvents or extreme temperature or pressure. Please request information if considering use under extreme conditions or use beyond current product labeling.

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Health Environmental Physical
Acute Toxicity - Not listed (NL) Aquatic Toxicity - NL NFPA - NL
Eye Corrosion - NL
Skin Corrosion - NL
Skin Sensitization - NL

Mutagenicity/Carcinogenicity – NL Reproductive/Developmental – NL Target Organ Toxicity (Repeated) – NL

Hazard Statements

Contact with internal components may cause irritation or severe burns. Irritating to eyes, respiratory system, and skin.

Precautionary Statements

Keep out of reach of children. Keep containers tightly closed. Avoid heat, sparks, and open flame while charging batteries. Avoid contact with internal acid/ gel.



(US, CN, EU Version for International Trade)

EMERGENCY OVERVIEW: May form explosive air/gas mixture during charging. Contact with internal components may

cause irritation of severe burns. Irritating to eyes, respiratory system, and skin. Prolonged inhalation or ingestion may result in serious damage to health. Pregnant women exposed

to internal components may experience reproductive/developmental effects.

POTENTIAL HEALTH EFFECTS:

EYES: Direct contact of internal electrolyte gel with eyes may cause severe burns or blindness.

SKIN: Direct contact of internal electrolyte gel with the skin may cause skin irritation or damaging burns.

INGESTION: Swallowing this product may cause severe burns to the esophagus and digestive tract and harmful or fortal lead regioning. Lead ingretion may cause pourse, veniting, weight lead reliable and product may cause pourse.

fatal lead poisoning. Lead ingestion may cause nausea, vomiting, weight loss, abdominal spasms,

fatigue, and pain in the arms, legs and joints.

INHALATION: Respiratory tract irritation and possible long term effects.

ACUTE HEALTH HAZARDS:

Repeated or prolonged contact may cause mild skin irritation.

CHRONIC HEALTH HAZARDS:

Lead poisoning if persons are exposed to internal components of the batteries. Lead absorption may cause nausea, vomiting, weight loss, abdominal spasms, fatigue, pain in the arms, legs and joints. Other effects may include central nervous system damage, kidney dysfunction, and potential reproductive effects. Chronic inhalation of sulfuric acid mist may increase the risk of lung cancer.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory and skin diseases may predispose one to acute and chronic effects of sulfuric acid and/or lead. Children and pregnant women must be protected from lead exposure. Persons with kidney disease may be at increased risk of kidney failure.

Additional Information

No health effects are expected related to normal use of this product as sold.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS (Chemical/Common Names):	CAS No.:	% by Wt:	EC No.:
Lead, inorganic	7439-92-1	60 - 80	231-100-4
Sulfuric acid	7664-93-9	5-15	231-639-5
Antimony	7440-36-0	0-0.1	231-146-5
Arsenic	7440-38-2	< 0.1	231-148-6
Tin	7440-31-5	0-0.1	231-141-8
Polypropylene	9003-07-0	2-10	N/A
Acrylonitrile Butadiene Styrene (ABS)	9003-56-0	4-12	N/A

Additional Information

These ingredients reflect components of the finished product related to performance of the product as distributed into commerce.

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Flush eyes with large amounts of water for at least 15 minutes. Seek immediate medical attention if

eyes have been exposed directly to acid gel.

SKIN CONTACT: Flush affected area(s) with large amounts of water using deluge emergency shower, if available,

shower for at least 15 minutes. Remove contaminated clothing. If symptoms persist, seek medical

attention.

INGESTION: If swallowed, give large amounts of water. Do NOT induce vomiting or aspiration into the lungs may

occur and can cause permanent injury or death.

INHALATION: If breathing difficulties develop, remove person to fresh air. If symptoms persist, seek medical

attention.



(US, CN, EU Version for International Trade)

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE/UNSUITABLE EXTINGUISHING MEDIA:

Dry chemical, carbon dioxide, water, foam. Do not use water on live electrical circuits.

SPECIAL FIRE FIGHTING PROCEDURES & PROTECTIVE EQUIPMENT:

Use appropriate media for surrounding fire. Do not use carbon dioxide directly on cells. Avoid breathing vapors. Use full protective equipment (bunker gear) and self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Batteries evolve flammable hydrogen gas during charging and may increase fire risk in poorly ventilated areas near sparks excessive heat or open flames.

SPECIFIC HAZARDS IN CASE OF FIRE:

Thermal shock may cause battery case to crack open. Containers may explode when heated.

Additional Information

Firefighting water runoff and dilution water may be toxic and corrosive and may cause adverse environmental impacts.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Avoid Contact with Skin. Neutralize any spilled electrolyte with neutralizing agents, such as soda ash, sodium bicarbonate, or very dilute sodium hydroxide solutions.

ENVIRONMENTAL PRECATIONS:

Prevent spilled material from entering sewers and waterways.

SPILL CONTAINMENT & CLEANUP METHODS/MATERIALS:

Add neutralizer/absorbent to spill area. Sweep or shovel spilled material and absorbent and place in approved container.

Dispose of any non-recyclable materials in accordance with local, state, provincial or federal regulations.

Additional Information

Lead acid batteries and their plastic cases are recyclable. Contact your Discover representative for recycling information.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING AND STORAGE:

- Keep containers tightly closed when not in use.
- If battery case is broken, avoid contact with internal components.
- Do not handle near heat, sparks, or open flames.
- Protect containers from physical damage to avoid leaks and spills.
- Place cardboard between layers of stacked batteries to avoid damage and short circuits.
- Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire.

OTHER PRECAUTIONS:

Keep away from combustible materials, organic chemicals, reducing substances, metals, strong oxidizers and water.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS/SYSTEM DESIGN INFORMATION:

Charge in areas with adequate ventilation.

VENTILATION:

General dilution ventilation is acceptable.

RESPIRATORY PROTECTION:

Not required for normal conditions of use. See also special firefighting procedures (Section 5).

EYE PROTECTION:

Wear protective glasses with side shields or goggles.

SKIN PROTECTION:

PAGE 3 OF 8



(US, CN, EU Version for International Trade)

Wear chemical resistant gloves as a standard procedure to prevent skin contact.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: None required under normal use conditions for EV Traction Dry Cell, and Gel Absorbed Electrolyte Sealed, Valve Regulated Battery. Wash hands after handling.

EXPOSURE GUIDELINES & LIMITS:

OSHA	XPO	SURE GUIDELII	NES & LIMITS:		
ACGIH 2007 Threshold Limit Value (TLV) Lead, inorganic (as Pb) Sulfuric acid Antimony Arsenic Tin 2 mg/m³ Cuebec Permissible Exposure Value (PEV) Quebec Permissible Exposure Value (PEV) Antimony Arsenic 1 mg/m³ STEV Antimony Arsenic Tin 2 mg/m³ Ontario Occupational Exposure Level (OEL) Antimony Arsenic (designated substance) Sulfuric acid 1 mg/m³ TWAEV Antimony Arsenic (designated substance) Tin Antimony Arsenic (designated substance) Tin 1 mg/m³ STEV Antimony Arsenic (designated substance) Tin 2 mg/m³ STEV Antimony Arsenic (designated substance) Tin 2 mg/m³ STEV Antimony Arsenic (designated substance) Tin 2 mg/m³ STEV Antimony Arsenic (as Pb) 0.15 mg/m³ SUlfuric acid 1 mg/m³ STEL Antimony 0.5 mg/m³ STEL Antimony 0.5 mg/m³ STEL Antimony 0.5 mg/m³ O.15 mg/m³ STEL Antimony 0.5 mg/m³ O.1 mg/m³		OSHA	Permissible Exposure Limit (PEL/TWA)	Sulfuric acid Antimony Arsenic	1 mg/m ³ 0.5 mg/m ³ 0.01 mg/m ³
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			Occupational Exposure Standard (OES)	Lead Antimony Arsenic	0.5 mg/m ³ 0.15 mg/m ³ 0.5 mg/m ³ 0.1 mg/m ³

TWA – 8-Hour Time Weighted Average/ STE – Short Term Exposure / mg/m³ – milligrams per cubic meter of air/ NE – Not Established

Additional Information

- Batteries are housed in cases which are regulated as total dust or respirable dust only when they are ground up during recycling.
- May be required to meet Domestic Requirements for a Specific Destination(s).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Industrial/commercial lead acid gel battery

ODOUR: Odorless
ODOUR THRESHOLD: NA

PHYSICAL STATE: Sulfuric Acid, Gelatinous/ Lead, solid

pH: <

BOILING POINT: 235-240° F (as sulfuric acid)

MELTING POINT:

FREEZING POINT:

VAPOUR PRESSURE:

NA

NA

NA

10 mmHg

PAGE 4 OF 8



(US, CN, EU Version for International Trade)

VAPOUR DENSITY (AIR = 1): > 1

SPECIFIC GRAVITY (H2O = 1): 1.27–1.33

EVAPORATION RATE (n-BuAc=1): < 1

SOLUBILITY IN WATER: 100% (as sulfuric acid)

FLASH POINT: Below room temperature (as hydrogen gas)

AUTO-IGNITION TEMPERATURE: NA

LOWER EXPLOSIVE LIMIT (LEL): 4% (as hydrogen gas) UPPER EXPLOSIVE LIMIT (UEL): 74% (as hydrogen gas)

PARTITION COEFFICIENT: NA VISCOSITY (poise @ 25° C): NA DECOMPOSITION TEMPERATURE: NA

FLAMMABILITY/HMIS HAZARD CLASSIFICATIONS (US/CN/EU): As sulfuric acid

HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 2

SECTION 10: STABILITY AND REACTIVITY

INCOMPATIBILITY (MATERIAL TO AVOID):

STABILITY: This product is stable under normal conditions at ambient temperature.

Strong bases, combustible organic materials, reducing agents, finely

divided metals, strong oxidizers, and water.

HAZARDOUS DECOMPOSITION OR BY
Thermal decomposition will produce sulfur dioxide, sulfur trioxide,

PRODUCTS:

carbon monoxide, sulfuric acid mist, and hydrogen.
Will not occur

HAZARDOUS POLYMERIZATION:

CONDITIONS TO AVOID: Overcharging, sources of ignition

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (Test Results Basis and Comments):

Sulfuric acid: LD₅₀, Rat: 21409 mg/kg

LC₅₀, Guinea pig: 510 mg/m³

Lead:

Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report that abnormal conduction velocities in person with blood lead levels of 50 µg/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.

Additional Information

- Very little chronic toxicity data available for elemental lead.
- Lead is listed by IARC as a 2B carcinogen: possible carcinogen in humans. Arsenic is listed by IARC, ACGIH, and NTP as a carcinogen, based on studies with high doses over long periods of time. The other ingredients in this product, present at equal to or greater than 0.1% of the product, are not listed by OSHA, NTP, or IARC as suspect carcinogens.
- The 19th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic
 to reproduction. Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble
 forms.

SECTION 12: ECOLOGICAL INFORMATION

PERSISTENCE & DEGRADABILITY:

Lead is very persistent in soils and sediments. No data available on biodegradation.

BIO-ACCUMULATIVE POTENTIAL (Including Mobility):

Mobility of metallic lead between ecological compartments is low. Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants, but very little bioaccumulation occurs through the food chain. Most studies have included lead compounds, not solid inorganic lead.

AQUATIC TOXICITY (Test Results & Comments):

Sulfuric acid: 24-hour LC₅₀, fresh water fish (Brachydanio rerio): 82 mg/l

96-hour LOEC, fresh water fish (Cyprinus carpio): 22 mg/l (lowest observable effect concentration)

PAGE 5 OF 8



(US, CN, EU Version for International Trade)

Lead (metal): No data available

Additional Information

No known effects on stratospheric ozone depletion.

Volatile organic compounds: 0% (by Volume)

Water Endangering Class (WGK): NA

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL Lead acid batteries are recyclable when sent to a secondary lead smelter. Follow local, METHOD:

State/Provincial, and Federal/National regulations applicable to as-used, end-of-life

characteristics to be determined by end-user. HAZARDOUS WASTE

US - Not applicable to finished product as manufactured for distribution into commerce. CLASS/CODE:

> CN – Not applicable to finished product as manufactured for distribution into commerce. EWC - Not applicable to finished product as manufactured for distribution into commerce.

Additional Information

Not Included - Recycle or dispose as allowed by local jurisdiction for the end-of-life characteristics as-disposed.

SECTION 14: TRANSPORT INFORMATION

GROUND - US-DOT/CAN-TDG/EU-ADR/APEC-ADR:

Proper Shipping Name Not regulated as a Hazardous Material

AIRCRAFT – ICAO-IATA:

Proper Shipping Name Not regulated as a Hazardous Materials.

Discover Batteries meet the test requirements for "Non-Spillable and wet electronic storage

Batteries" as provided in 49 CFR 173.159 (d) and IATA/ICAO, and are non-regulated when

protected against short circuits, kept upright, and securly packaged.

VESSEL - IMO-IMDG:

Proper Shipping Name Not regulated as a Hazardous Material

Additional Information

- Each battery and the outer packaging must be plainly and durably marked "Nonspillable" or "Nonspillable Battery"
- Non-Spillable Battery complies with the provisions listed in 49 CFR 173.159(d), therefore must not be marked with an identification number or hazardous label and is not subject to hazardous shipping paper requirements.
- Transport requires proper packaging and paperwork, including the Nature and Quantity of goods, per applicable origin/destination/customs points as-shipped.

SECTION 15: REGULATORY INFORMATION

INVENTORY STATUS:

All components are listed on the TSCA; EINECS/ELINCS; and DSL, unless noted otherwise below.

U.S. FEDERAL REGULATIONS:

TSCA Section 8b - Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA

TSCA Section 12b - Export Notification: If the finished product contains chemicals subject to TSCA Section 12b export notification, they are listed below:



(US, CN, EU Version for International Trade)

Chemical None

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT)

Chemicals present in the product which could require reporting under the statute:

Chemical Lead 7439-92-1 Sulfuric acid 7664-93-9

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

The finished product contains chemicals subject to the reporting requirements of Section 313 of SARA Title III.

Chemical CAS# % wt 67 Lead 7439-92-1 10 7664-93-9 Sulfuric acid

CERCLA SECTION 311/312 HAZARD CATEGORIES: Note that the finished product is exempt from these regulations,

but lead and sulfuric acid above the thresholds are reportable on Tier II reports.

Fire Hazard Pressure Hazard Nο Reactivity Hazard No

Immediate Hazard Yes (Internal acid gel is Corrosive)

Delayed Hazard

Sulfuric Acid is regulated as an Extremley Hazardous Substance.

STATE REGULATIONS (US):

California Proposition 65

The following chemicals identified to exist in the finished product as distributed into commerce are known to the State of California to cause cancer, birth defects, or other reproductive harm:

> Chemical Arsenic (as arsenic oxides) 7440-38-2 < 0.1 Strong inorganic acid mists including NA 10 sulfuric acid

Lead 7439-92-1 67

California Consumer Product Volatile Organic Compound Emissions

This Product is not regulated as a Consumer Product for purposes of CARB/OTC VOC Regulations, as-sold for the intended purpose and into the industrial/Commercial supply chain.

INTERNATIONAL REGULATIONS (Non-US):

Canadian Domestic Substance List (DSL)

All ingredients remaining in the finished product as distributed into commerce are included on the Domestic Substances

WHMIS Classifications

Class E: Corrosive materials present at greater than 1%

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 Controlled Products Regulations.

NPRI and Ontario Regulation 127/01

This product contains the following chemicals subject to the reporting requirements of Canada NPRI +/or Ont, Reg. 127/01:

> Chemical 7439-92-1 67 Lead Sulfuric acid 7664-93-9

European Inventory of Existing Commercial Chemical Substances (EINECS)

All ingredients remaining in the finished product as distributed into commerce are exempt from, or included on, the European Inventory of Existing Commercial Chemical Substances.

European Communities (EC) Hazard Classification according to directives 67/548/EEC and 1999/45/EC.

R-Phrases S-Phrases 35, 36, 38 1/2, 26, 30, 45

Additional Information

This product may be subject to Restriction of Hazardous Substances (RoHS) regulations in Europe and China, or may be



(US, CN, EU Version for International Trade)

regulated under additional regulations and laws not identified above, such as for uses other than described or asdesigned/as-intended by the manufacturer, or for distribution into specific domestic destinations.

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

Distribution into Quebec to follow Canadian Controlled Product Regulations (CPR) 24(1) and 24(2). Distribution into the EU to follow applicable Directives to the Use, Import/Export of the product as-sold. SOURCES OF INFORMATION:

International Agency for Research on Cancer (1987), IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: Overall Evaluations of Carcinogenicity: An updating of IARC Monographs Volumes 1-42, Supplement 7, Lyon, France. Ontario Ministry of Labour Regulation 654/86. Regulations Respecting Exposure to Chemical or Biological Agents. RTECS – Registry of Toxic Effects of Chemical Substances, National institute for Occupational Safety and Health. Enersys Manufacturing, Deutsche Exide GmbH, C&D Technologies, Exide Technologies, East Penn Manufacturing, Governments and regulatory publications available from the Government of the USA. Canada and EU.

MSDS/SDS PREPARATION INFORMATION:

DATE OF ISSUE: January 2009 SUPERCEDES: All previous versions.

DISCLAIMER:

This Material Safety Data Sheet is based upon information and sources available at the time of preparation or revision date. The information in the MSDS was obtained from sources which we believe are reliable, but are beyond our direct supervision or control. We make no Warranty of Merchantability, Fitness for any particular purpose, or any other Warranty, Expressed or Implied, with respect to such information, and we assume no liability resulting from its use. For this and other reasons, we no not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use of, or disposal of the product. It is the obligation of each user of the product to determine the suitability of this product and comply with the requirements of all applicable laws regarding use and disposal of this product. For additional information concerning Discover Energy Corp. products or questions concerning the content of this MSDS, please contact your Discover Representative.