SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 1 of 12

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: Battery/2000

Product Code(s) : Not available.

Recommended use of the chemical and restrictions on use

: DC Power Source

Restriction on use: None known

Chemical family : Mixture

Name, address, and telephone number Name, address, and telephone number of

of the supplier: the manufacturer: **All Power Battery** Refer to supplier

E2 225 North Road

Coquitlam, BC, Canada

V3K 3V7

Supplier's Telephone # : (604) 888-3842

: Emergency Telephone: (604) 888-3842 24 Hr. Emergency Tel#

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

This product is considered to be a 'manufactured article'. However, if the article is damaged and/or material is released, contents are harmful. The classification below is provided for informational purposes only, should the article be damaged and/or improperly used.

Hazard classification: Corrosive to Metals - Category 1 Acute Toxicity, inhalation - Category 4 (mist) Eye Damage/Irritation - Category 1 Skin Corrosive Category 1B Carcinogenicity - Category 1 Reproductive Toxicity-Category 1 Specific target organ toxicity, repeated exposure Category 1

Germ Cell Mutangenicity - Category 2

Label elements

Hazard pictogram(s)



Signal Word

Danger.

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 2 of 12

SAFETY DATA SHEET

Hazard statement(s)

Corrosive to metals

Harmful if inhaled.

Causes severe skin burns and eye damage.

May cause cancer.

Suspected of causing genetic defects.

May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure.

Precautionary statement(s)

Do not breathe mist.

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/clothing and eye/face protection.

Do not eat, drink or smoke when using this product.

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep only in original container.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

If inhaled: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTRE or doctor/physician.

IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing.

Wash contaminated clothing before re-use.

IF exposed or concerned: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTRE or doctor/physician.

Absorb spillage to prevent material damage.

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Store in corrosive resistant container with a resistant inner liner.

Dispose of contents/container in accordance with local regulation.

Other hazards

Other hazards which do not result in classification: Ingestion can cause irritation and corrosive action in the mouth, stomach and digestive tract.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Common name and synonyms	CAS#	Concentration (% by weight)
Lead	Lead sulphate; Lead oxide (as lead)	7439-92-1	65.0 - 75.0
Sulphuric acid	Sulfuric Acid Solution; Oil of Vitriol; Battery Acid	7664-93-9	15.0 - 20.0

SECTION 4. FIRST-AID MEASURES

Description of first aid measures

Ingestion

: If swallowed: Immediately call a poison center/doctor. Do not induce vomiting. Rinse mouth.

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 3 of 12

SAFETY DATA SHEET

Inhalation : If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing

is difficult, trained personnel should give oxygen. If breathing stops, provide artificial

respiration. Call a physician or poison control center immediately.

Skin contact: If on skin (or hair): Take off immediately all contaminated clothing. Duration of rinsing

should be at least 20 minutes. Cover wound with sterile dressing. Do not rub area of contact. Wash contaminated clothing before reuse. Leather and shoes that have been contaminated with the solution may need to be destroyed. Call a physician or poison

control center immediately.

Eye contact : If in eyes: Rinse cautiously with water for several minutes. Duration of rinsing should

be at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Take care not to rinse contaminated water into unaffected eyes or onto the

face. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

: However, if the article is damaged and/or improperly used:

Causes serious eye damage. Symptoms may include severe pain, blurred vision, redness and corrosive damage. Permanent eye damage including blindness could result. Causes severe skin irritation. Symptoms may include redness, blistering, pain and swelling. May be harmful if inhaled. May cause severe irritation to the nose, throat and respiratory tract. Ingestion may cause severe irritation of the mouth, the

esophagus and the gastrointestinal tract. May cause cancer. May damage the unborn child. Suspected of damaging fertility. Suspected of causing genetic defects. Contains lead and lead compounds. Prolonged overexposure may result in lead toxicity

syndrome which may result in permanent damage or death.

Indication of any immediate medical attention and special treatment needed

: Immediate medical attention is required. Causes chemical burns. Symptoms may be delayed.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media

: Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical. Use water spray with caution. Contact with water will generate considerable heat.

Unsuitable extinguishing media

 Use chemical extinguishing agents with caution. Some chemical extinguishing agents may react with this material.

Special hazards arising from the substance or mixture / Conditions of flammability

: Not considered flammable. Vapors are heavier than air and may spread along floors. Contact with most metals will generate flammable hydrogen gas. Reacts violently with water with evolution of heat. Reacts violently with a wide variety of organic and inorganic chemicals including alcohol, carbides, chlorates, picrates, nitrates and metals. Toxic fumes, gases or vapors may evolve on burning.

Flammability classification (OSHA 29 CFR 1910.106)

: Not classified as flammable.

Hazardous combustion products

: Toxic fumes, gases or vapors may evolve on burning. Sulphur oxides.

Special protective equipment and precautions for firefighters

Protective equipment for fire-fighters

: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn.

Special fire-fighting procedures

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 4 of 12

SAFETY DATA SHEET

Fight fire with normal precautions from a reasonable distance. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Evacuate the area promptly. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Fight fire from upwind to avoid exposure to combustion products. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.

Environmental precautions :

Avoid discharge into drains, water courses or onto the ground. Contact local authorities in case of spillage to drain/aquatic environment.

Methods and material for containment and cleaning up

: Ventilate the area. Remove sources of ignition. Stop leak if you can do so without risk. Absorb spillage to prevent material damage. Use a non - combustible material like vermiculite, sand, or earth to soak up the product and place into a container for later disposal.

Small Spills: Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand). Dilute acid with water and neutralize with Sodium Carbonate (soda ash) or lime. Clean surface thoroughly to remove residual contamination. Large Spills: Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Do not flush into surface water or sanitary sewer system. If not recoverable, dilute with water or flush to holding area and neutralize. Remove with vacuum trucks or pump to storage/salvage vessel. Never return spills in original containers for re-use. Contaminated absorbent material may pose the same hazards as the spilled product. For waste disposal, see Section 13 of the SDS.

Special spill response procedures

: None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Use only outdoors or in a well-ventilated area. Wear chemically resistant protective equipment during handling. Do not taste or swallow. Do not breathe mist. Avoid contact with eyes, skin and clothing. Keep away from heat. Keep away from metals and incompatibles. When preparing or diluting solution, always add to water, slowly and with stirring. When diluting, always add the product to water. Never add water to the product. Wash thoroughly after handling. When using, do not eat, drink or smoke. Avoid release to the environment.

Conditions for safe storage :

Store in a cool, dry place out of direct sunlight. Store locked up. Store in a well ventilated place. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Store away from incompatible materials (see Section 10 of the SDS). Store in original tightly closed container. Store in corrosive resistant container with a resistant inner liner.

Incompatible materials

: See section 10.

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 5 of 12

SAFETY DATA SHEET

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:					
Chemical Name	ACGIH TLV		OSHA PEL		
	TWA	STEL	PEL	<u>STEL</u>	
Lead	0.05 mg/m³	N/Av	50 μg/m3 (as Pb) (final rule limit)	N/Av	
Sulphuric acid	0.2 mg/m³	N/Av	1 mg/m³	N/Av	

Exposure controls

Ventilation and engineering measures

: Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection

In case of insufficient ventilation wear suitable respiratory equipment. If respiratory protection is required, institute a complete respiratory protection program including selection, fit testing, training, maintenance and inspection. Advice should be sought from respiratory protection specialists. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134).

Skin protection

: Wear appropriate chemical resistant gloves. Advice should be sought from glove suppliers.

Eye / face protection

: Chemical goggles and face shield are recommended. Eye wash fountains are required.

Other protective equipment: Where contact is likely, wear chemical-resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. A chemical protective full-body encapsulating suit may be required in some operations. Eye wash facilities and emergency shower must be available when handling this product.

General hygiene considerations

: Do not breathe mist. Do not get in eyes, on skin, or on clothing. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Yellow-brown liquid Odour Sharp, acrid odour. Odour threshold Not available.

: <1 pН Melting/Freezing point : -40 °C Initial boiling point and boiling range

: 110°C

Flash point : Not Applicable (Does not burn)

: Not available. Flashpoint (Method) Evaporation rate (BuAe = 1) : Not available. : Not applicable. Flammability (solid, gas)

All Power Battery E2 225 North Road Coquitlam, BC Canada V3K 3V7 Telephone: (604) 888-3842

Battery/2000

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 6 of 12

SAFETY DATA SHEET

Lower flammable limit (% by vol.)

: Not applicable.

Upper flammable limit (% by vol.)

: Not applicable.

Oxidizing properties : None expected.

Explosive properties : Not available.

Vapour pressure : Not available.

Vapour density : Not available.

Relative density / Specific gravity

: 1.265

Solubility in water : Completely soluble.

Other solubility(ies) :

Partition coefficient: n-octanol/water or Coefficient of water/oil distribution

: Not available.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Volatiles (% by weight) : Not available.

Volatile organic Compounds (VOC's)

: Not available.

Absolute pressure of container

: Not applicable.

Flame projection length : Not applicable.

Other physical/chemical comments

: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Reacts violently with water with evolution of heat. Contact with most metals will

generate flammable hydrogen gas. May be corrosive to metals. May be corrosive to: Aluminum, brass, bronze carbon steel, stainless steel, nickel, copper, cast iron.

Chemical stability : Material is stable under normal conditions. Decomposes at ~340°C to form sulfuric

trioxide.

Possibility of hazardous reactions

: Reacts violently with a wide variety of organic and inorganic chemicals including

alcohol, carbides, chlorates, picrates, nitrates and metals.

Acetaldehyde and allyl chloride may polymerize violently in the presence of sulfuric acid. Hazardous gases, such as hydrogen cyanide, hydrogen sulfide and acetylene, are evolved on contact with chemicals such as cyanides, sulfides and carbides.

Conditions to avoid : Avoid high temperatures. Avoid contact with incompatible materials. Do not use in

areas without adequate ventilation.

Incompatible materials : Metals.Bases.Water.Strong oxidizing agents. Strong acids.AlcoholCarbides.Picrates.

ChloratesNitrates. Sulfides.Cyanides.

Hazardous decomposition products

: The following may be released during a fire: Sulphur oxides.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : Harmful if inhaled.

Routes of entry skin & eye : Causes severe skin burns and eye damage.

Routes of entry Ingestion : Causes digestive tract burns.

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 7 of 12

SAFETY DATA SHEET

Routes of exposure skin absorption

: Not expected to be absorbed through the skin.

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

Sign and symptoms Inhalation

: May be harmful if inhaled. May cause severe irritation to the nose, throat and

respiratory tract.

Sign and symptoms ingestion

: Causes digestive tract burns.

Sign and symptoms skin

: Causes severe skin burns. Symptoms may include redness, blistering, pain and

swelling.

Sign and symptoms eyes

Causes severe eye burns. Symptoms may include severe pain, blurred vision, redness

and corrosive damage. Permanent eye damage including blindness could result.

Potential Chronic Health Effects

: Prolonged overexposure to inner components may lead to lead toxicity. Causes damage to organs through prolonged or repeated exposure. Lead poisoning is characterized by a metallic taste in the mouth, loss of appetite, indigestion, nausea, vomiting, constipation, abdominal cramps, disturbance of rest and sleep, and

weakness.

Mutagenicity : Suspected of causing genetic defects.

Carcinogenicity : Hazardous by OSHA criteria.

Carcinogenicity - Category 1A May cause cancer.

Reproductive effects & Teratogenicity

: May damage fertility or the unborn child.

Sensitization to material

: Not expected to be a skin or respiratory sensitizer.

Specific target organ effects:

Target Organs: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity (STOT), Single Exposure: Category 3 May cause respiratory irritation. Specific target organ toxicity - repeated exposure: Category 1 May cause damage to the blood and

central nervous system.

Medical conditions aggravated by overexposure

: N/Av.

Synergistic materials

: N/Av.

Toxicological data

: There is no available data for the product itself, only for the ingredients. See below for

individual ingredient acute toxicity data.

The calculated ATE are ATE Oral: 2033 mg/kg ATE Dermal: > 2000 mg/Kg ATE Inhalation: 1.875 mg/L

	LC ₅₀ (4hr)	LDs	50	
Chemical name	inh, rat	(Oral, rat)	(Rabbit, dermal)	
Lead	n/av	n/av	n/av	
Sulphuric acid	0.375- 0.536 mg/L/4H (mist)	2140- 3058 mg/kg	N/Av	

:

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 8 of 12

SAFETY DATA SHEET

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Because of the low pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems. However, it may be neutralized by naturally occurring alkalinity in the environment.

The acute toxicity of Sulfuric acid is (literature):

Toxicity to fish - LC50/96h/Gambusia affinis = 42 mg/L

Toxicity to daphnia - EC50/24h/Daphnia magna (Water flea) = 29 mg/L

Ecotoxicity data:

lo ava di avata	040 N-	Toxicity to Fish					
<u>Ingredients</u>	CAS No	LC50 / 96h	NOEC / 21 day	M Factor			
Lead	7439-92-1	1.17 mg/L(Rainbow trout)	N/Av	N/Ap			
Sulphuric acid	7664-93-9	16 - 28 mg/L(Bluegill)	N/Av	N/Av			

<u>Ingredients</u>	CAS No	Toxicity to Daphnia					
		EC50 / 48h	NOEC / 21 day	M Factor			
Lead	7439-92-1	0.45 mg/L	N/Av	N/Ap			
Sulphuric acid	7664-93-9	N/Av	29 mg/L/24hr Water flea	N/Av			

<u>Ingredients</u>	CAS No	То	oxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor	
Lead	7439-92-1	2.66 mg/L	N/Av	N/Ap	
Sulphuric acid	7664-93-9	>100 mg/L/72hr (Green algae)	N/Av	N/Av	

Persistence and degradability

: Biodegradation is not applicable to inorganic substances.

Bioaccumulation potential

No accumulation in living organisms is expected due to high solubility and dissociation properties.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Sulphuric acid (CAS 7664-93-9)	N/Av	no bioaccumulation

Mobility in soil

: High water solubility indicates a high mobility in soil.

Other Adverse Environmental effects

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal

: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with all applicable regulations. Do not allow this material to drain into sewers/water supplies.

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 9 of 12

SAFETY DATA SHEET

Methods of Disposal

: Dispose in accordance with all applicable regulations.

RCRA

: The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label		
TDG	UN2800	BATTERIES, WET, NON-SPILLABLE, electric storage	8	none	\$ 100 miles		
TDG Additional information		ulated for transport. Meets with Special , Clear Language.					
IMDG	UN2800	Batteries, wet, non-spillable	8	none			
IMDG Additional information	Consult the IMI	DG regulations for exceptions.					
ICAO/IATA	UN2800	Batteries, wet, non-spillable	8	none	(a)		
ICAO/IATA Additional information	Refer to ICAO/IATA Packing Instruction 872. Special provision: A48, A67, A164, A183						

Special precautions for user: None known or reported by the manufacturer.

Environmental hazards : This product does not meet the criteria for an environmentally hazardous mixture,

according to the IMDG Code. See Section 12 for more environmental information.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 10 of 12

SAFETY DATA SHEET

Ingradianta	CAC#	# TSCA CERCLA Sec. 302, Extremely Hazardous Substance, 40 CFR 117.302):	SCA Reportable	Sec. 302, Extremely	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
<u>Ingredients</u>	CAS#		Toxic Chemical	de minimus Concentration			
Lead	7439-92-1	Yes	10 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers); 4.54 kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is larger than 100 micrometers)	N/Av	Yes	0.1%	
Sulphuric acid	7664-93-9	Yes	1000 lb/ 454 kg	1000 lb TPQ	Yes	0.1%	

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory list.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS#	California Proposition 65		State "Right to Know" Lists					
	CAS#	Listed	Type of Toxicity	CA MA MN NJ				PA	RI
Lead	7439-92-1	Yes	Carcinogen;Devel opmental Toxicity;female reproductive toxicity;male reproductive toxicity	Yes	Yes	Yes	Yes	Yes	No
Sulphuric acid	7664-93-9	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes

Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

International Information:

Components listed below are present on the following International Inventory list:

All Power Battery E2 225 North Road Coquitlam, BC Canada V3K 3V7 Telephone: (604) 888-3842

Battery/2000

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 11 of 12

SAFETY DATA SHEET

<u>Ingredients</u>	CAS#	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Lead	7439-92-1	231-100-4	Present	Present	(1)-527	KE-21887	Present	HSR002809
Sulphuric acid	7664-93-9	231-639-5	Present	Present	(1)-724; (1)-430	KE-32570	Present	HSR001572, HSR001573, HSR001588 (dilution)

SECTION 16. OTHER INFORMATION

Legend : ACGIH: American Conference of Governmental Industrial Hygienists

CAS: Chemical Abstract Services

CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act

of 1980 CFR: Code of Federal Regulations

CAS: Chemical Abstract Services DOT: Department of Transportation DSL: Domestic Substances List

HMIS: Hazardous Materials Identification System

HPA: Hazardous Products Act

HSDB: Hazardous Substances Data Bank

IARC: International Agency for Research on Cancer IATA: International Air Transport Association IDLH: Immediately Dangerous to Life or Health IMDG: International Maritime Dangerous Goods

LC: Lethal Concentration

LD: Lethal Dose

NFPA: National Fire Protection Association

NIOSH: National Institute of Occupational Safety and Health OECD: Organisation for Economic Co-operation and Development

OEL: National occupational exposure limits

OSHA: Occupational Safety and Health Administration

NTP: National Toxicology Program PPE: Personal Protective Equipment

RTECS: Registry of Toxic Effects of Chemical Substances

SAR: Supplied-Air Respirator

SARA: Superfund Amendments and Reauthorization Act

SCBA: Self-Contained Breathing Apparatus

STEL: Short Term Exposure Limit TWA: Time Weighted Average

: 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents &

Biological Exposure Indices for 2016

2. International Agency for Research on Cancer Monographs, searched 2017

3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases,

2017(Chempendium, HSDB and RTECs).

4. Material Safety Data Sheets from manufacturer.

5. US EPA Title III List of Lists - 2017 version.

6. California Proposition 65 List - 2017 version.

7. OECD - The Global Portal to Information on Chemical Substances -

eChemPortal,2017.

Preparation Date (mm/dd/yyyy)

References

: 07/01/2016

Other special considerations for handling

: Provide adequate information, instruction and training for operators.

All Power Battery E2 225 North Road Coquitlam, BC Canada V3K 3V7 Telephone: (604) 888-3842

Battery/2000

SDS Preparation Date (mm/dd/yyyy): 07/01/2016

Page 12 of 12

SAFETY DATA SHEET

Prepared for:

All Power Battery E2 225 North Road Coquitlam, BC Canada V3K 3V7 Telephone: (604) 888-3842 www.battery2000.com

Please direct all enquiries to All Power Battery.

Prepared by:

ICC The Compliance Center Inc.

Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)

http://www.thecompliancecenter.com



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