

SAFETY DATA SHEET

HCS-2012 APPENDIX D TO §1910.1200

Version 1

Product Name SEALED LEAD BATTERY

Issue Date 27-Jul-2015
Revision date 27-Jul-2015

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name SEALED LEAD BATTERY
Chemical Name SEALED LEAD BATTERY

Other means of identification

No information available

Recommended use of the chemical and restrictions on use

Recommended Use Emergency power
Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier CHEE YUEN PLASTIC PRODUCTS (HUIZHOU) CO., LTD
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2. HAZARDS IDENTIFICATION

GHS Classification

Not classified

Label elements

Symbols/Pictograms None
Signal word None
Hazard Statements None
Precautionary Statements
Prevention None
Response None
Storage None
Disposal None

Hazards not otherwise classified (HNOC)

No information available

Unknown acute toxicity

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature

Article

Chemical Name	CAS No	Weight-%
Lead Dioxide	1309-60-0	32.4
Lead	7439-92-1	31.1

Dilute Sulfuric acid	7664-93-9	20
ABS plastic	9003-56-9	13
Glass Fiber	60676-86-0	2
Epoxy resin	-	1.5

4. FIRST AID MEASURES

Description of first aid measures

General advice	Remove contaminated clothing and shoes. If symptoms persist, call a physician.
Inhalation	Not an expected route of exposure. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Skin Contact	Wash hands thoroughly after handling.
Eye contact	Not an expected route of exposure. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Not an expected route of exposure. If swallowed, call a poison control center or physician immediately.

Most important symptoms and effects, both acute and delayed

No information available.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors
Carbon oxides (COx)
metal oxides

Protective equipment and precautions for firefighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not touch or walk through spilled material. Avoid breathing vapors or mists.

Methods and material for containment and cleaning up

Prevent further leakage or spillage if safe to do so.
Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation, especially in confined areas. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Use personal protection recommended in Section 8. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Denmark	European Union
Lead Dioxide (CAS #: 1309-60-0)	TWA: 0.05 mg/m ³ Pb	-	IDLH: 100 mg/m ³ Pb TWA: 0.050 mg/m ³ Pb	TWA: 0.05 mg/m ³	-
Lead (CAS #: 7439-92-1)	TWA: 0.05 mg/m ³ TWA: 0.05 mg/m ³ Pb	-	IDLH: 100 mg/m ³ IDLH: 100 mg/m ³ Pb TWA: 0.050 mg/m ³ TWA: 0.050 mg/m ³ Pb	TWA: 0.05 mg/m ³	TWA: 0.15 mg/m ³
Dilute Sulfuric acid (CAS #: 7664-93-9)	TWA: 0.2 mg/m ³ thoracic fraction	TWA: 1 mg/m ³ (vacated) TWA: 1 mg/m ³	IDLH: 15 mg/m ³ TWA: 1 mg/m ³	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³
Glass Fiber (CAS #: 60676-86-0)	-	-	-	TWA: 0.1 mg/m ³	-

Chemical Name	Latvia	France	Finland	Germany	Italy
Lead Dioxide (CAS #: 1309-60-0)	TWA: 0.005 mg/m ³ STEL: 0.01 mg/m ³	TWA: 0.1 mg/m ³	-	Skin	TWA: 0.15 mg/m ³
Lead (CAS #: 7439-92-1)	TWA: 0.005 mg/m ³ STEL: 0.01 mg/m ³	TWA: 0.1 mg/m ³	TWA: 0.1 mg/m ³	Skin	TWA: 0.075 mg/m ³ TWA: 0.15 mg/m ³
Dilute Sulfuric acid (CAS #: 7664-93-9)	TWA: 0.05 mg/m ³	TWA: 0.05 mg/m ³ STEL: 3 mg/m ³	TWA: 0.05 mg/m ³ STEL: 0.1 mg/m ³	TWA: 0.1 mg/m ³ Ceiling / Peak: 0.1 mg/m ³ Skin	TWA: 0.05 mg/m ³
Glass Fiber (CAS #: 60676-86-0)	-	-	-	TWA: 0.3 mg/m ³	-

Chemical Name	Poland	Portugal	Spain	Switzerland	Netherlands
Dilute Sulfuric acid (CAS #: 7664-93-9)	STEL: 3 mg/m ³ TWA: 1 mg/m ³ TWA: 0.05 mg/m ³	TWA: 0.2 mg/m ³	TWA: 0.05 mg/m ³	STEL: 0.1 mg/m ³ TWA: 0.1 mg/m ³	TWA: 0.05 mg/m ³

Chemical Name	Norway	United Kingdom	Australia	Austria	Belgium
Lead Dioxide (CAS #: 1309-60-0)	TWA: 0.05 mg/m ³ STEL: 0.05 mg/m ³	-	0.15 mg/m ³	STEL 0.4 mg/m ³ TWA: 0.1 mg/m ³	-
Lead (CAS #: 7439-92-1)	TWA: 0.05 mg/m ³ STEL: 0.05 mg/m ³	-	0.15 mg/m ³	STEL 0.4 mg/m ³ TWA: 0.1 mg/m ³	-
Dilute Sulfuric acid (CAS #: 7664-93-9)	TWA: 0.1 mg/m ³ STEL: 0.1 mg/m ³	TWA: 0.05 mg/m ³	1 mg/m ³ 3 mg/m ³ STEL	STEL 0.2 mg/m ³ TWA: 0.1 mg/m ³	-
Glass Fiber (CAS #: 60676-86-0)	-	-	-	TWA: 0.3 mg/m ³	-

Appropriate engineering controls

Use with local exhaust ventilation
Ensure adequate ventilation, especially in confined areas

Individual protection measures, such as personal protective equipment

Respiratory protection	In case of insufficient ventilation, wear suitable respiratory equipment.
Hand Protection	Wear protective gloves.
Eye/face protection	No special technical protective measures are necessary.
Skin and body protection	Suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Solid
Color	No information available
Odor	Odorless
Odor Threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Boiling point / boiling range	Not determined
Flash point	Not applicable
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Flammability Limit in Air	Not determined
Vapor Pressure	Not applicable
Vapor density	Not determined
Density	Not determined
Relative density	Not determined
Bulk density	Not determined
Specific gravity	Not determined
Water solubility	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

Other information

No information available

10. STABILITY AND REACTIVITY

Reactivity

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Extremes of temperature and direct sunlight.

Incompatible materials

Strong acids Strong bases Strong oxidizing agents

Hazardous Decomposition Products

None known based on information supplied

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Not an expected route of exposure
Eye contact	Contact with the eyes can lead to mechanical irritation
Skin Contact	No known effect based on information supplied

Ingestion

Not an expected route of exposure

Information on toxicological effects**Acute toxicity**

0.4% of the mixture consists of ingredient(s) of unknown toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Dilute Sulfuric acid (CAS #: 7664-93-9)	= 2140 mg/kg (Rat)	-	= 510 mg/m ³ (Rat) 2 h

Skin corrosion/irritation

Non-irritating to the skin

Serious eye damage/eye irritation

No eye irritation

Sensitization

No sensitization responses were observed

Germ cell mutagenicity

No information available

Carcinogenicity

Chemical Name	ACGIH	IARC	NTP	OSHA
Lead Dioxide (CAS #: 1309-60-0)	A3	Group 2A	Reasonably Anticipated	-
Lead (CAS #: 7439-92-1)	A3	Group 2A	Reasonably Anticipated	-
Dilute Sulfuric acid (CAS #: 7664-93-9)	A2	Group 1	Known	X
ABS plastic (CAS #: 9003-56-9)	-	Group 3	-	-
Glass Fiber (CAS #: 60676-86-0)	-	Group 3	-	-

Reproductive toxicity

No information available

STOT - single exposure

No information available

STOT - repeated exposure

No information available

Aspiration hazard

No information available

12. ECOLOGICAL INFORMATION**Ecotoxicity**

0.4% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Lead (CAS #: 7439-92-1)	-	0.44: 96 h Cyprinus carpio mg/L LC50 semi-static 1.17: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 1.32: 96 h Oncorhynchus mykiss mg/L LC50 static	-
Dilute Sulfuric acid (CAS #: 7664-93-9)	-	500: 96 h Brachydanio rerio mg/L LC50 static	29: 24 h Daphnia magna mg/L EC50

Persistence and degradability

No information available

Bioaccumulative potential

No information available

Mobility in soil

No information available

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS**Waste treatment methods**

Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations

Contaminated packaging

Dispose of in accordance with federal, state and local regulations

Chemical Name	California Hazardous Waste Status
Lead Dioxide 1309-60-0	Toxic
Lead 7439-92-1	Toxic
Dilute Sulfuric acid 7664-93-9	Toxic Corrosive

14. TRANSPORT INFORMATION**DOT**

UN/ID No.	Not regulated
Proper shipping name	Not regulated
Hazard Class	Not regulated
Packing Group	Not regulated
Special precautions	No information available
Marine pollutant	Not applicable

15. REGULATORY INFORMATION**International Inventories**

Component	AICS	DSL/NDL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	TSCA
Lead Dioxide 1309-60-0	X	X	X	X	X	X	X	X
Lead 7439-92-1	X	X	X	X	X	X	X	X
Sulfuric acid 7664-93-9	X	X	X	X	X	X	X	X
ABS plastic 9003-56-9	X	X	-	X	X	X	X	X
Glass Fiber 60676-86-0	X	X	X	X	X	X	X	X

"- " Not Listed

"X" Listed

US Federal Regulations**SARA 313**

Chemical Name	SARA 313 - Threshold Values %
Dilute Sulfuric acid - 7664-93-9	1.0

SARA 311/312 Hazard Categories

Not applicable

CWA (Clean Water Act)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Lead Dioxide 1309-60-0	-	X	-	-
Lead 7439-92-1	-	X	X	-
Dilute Sulfuric acid 7664-93-9	1000 lb	-	-	X

CERCLA

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Dilute Sulfuric acid 7664-93-9	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

US State Regulations**California Proposition 65**

Chemical Name	California Proposition 65
Lead Dioxide - 1309-60-0	Carcinogen Developmental
Lead - 7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive
Dilute Sulfuric acid - 7664-93-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Lead Dioxide 1309-60-0	X	X	-
Lead 7439-92-1	X	X	-
Dilute Sulfuric acid 7664-93-9	X	X	X
Glass Fiber 60676-86-0	X	X	-

16. OTHER INFORMATION**Revision Note**

Issue Date	27-Jul-2015
Revision date	27-Jul-2015
Revision Note	Not applicable

Key or legend to abbreviations and acronyms used in the safety data sheet

TWA - TWA (time-weighted average)
STEL - STEL (Short Term Exposure Limit)
Ceiling - Maximum limit value
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

Disclaimer

The information provided in this Material 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 Safety Data Sheet -----

