Battery Fluid, Sulphuric Acid

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
Issue date: 3/14/2025 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Name : Battery Fluid, Sulphuric Acid

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Electrolytes for batteries

1.4. Supplier's details

Supplier
BS BATTERY
30 Rue Pasteur
Suresnes, 92150
France
T +33 1 83 62 45 55
contact@bs-battery.com

Distributor
BS Battery USA Inc
6950 Bryan Dairy Road Suite A
Largo, Florida 33777
United States
T 727-201-5409 (ext. 101)
contact@bs-battery.com

1.5. Emergency phone number

Emergency number : 727-201-5409
from 8:30 AM to 5:00 PM, Monday to Friday

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion/irritation, Category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Hazardous to the aquatic environment — Acute Hazard, Category 3	H402	Harmful to aquatic life.

Full text of H-statements: see section 16

2.2. Label elements

GHS US labelling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger
Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage
H402 - Harmful to aquatic life
Precautionary statements (GHS US) : P260 - Do not breathe vapours, mist.
P264 - Wash hands, forearms and face thoroughly after handling.
P273 - Avoid release to the environment.
P280 - Wear protective clothing, eye and face protection, protective gloves.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER, a doctor.
P501 - Dispose of hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation to a hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

Other hazards which do not result in classification : Overexposure to sulfuric acid mists can cause lung damage and aggravate lung disorders. Irritation to throat and respiratory system. Burns to mouth, oesophagus and gastrointestinal tract.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Sulphuric acid	CAS-No.: 7664-93-9	37 – 44	Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402

Full text of hazard classes and H-statements : see section 16

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general : If you feel unwell, seek medical advice. If possible show him this sheet. Failing this, show him the packaging or label.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Get medical advice and attention if you feel unwell.

First-aid measures after skin contact : First rinse with plenty of water, then remove contaminated clothes and rinse again. Immediately consult a doctor/medical service.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately.

First-aid measures after ingestion : Give water to drink. Never attempt to induce vomiting. Immediately consult a doctor/medical service.

4.2. Most important symptoms/effects, acute and delayed

Potential adverse human health effects and symptoms : Overexposure to sulfuric acid mists can cause lung damage and aggravate lung disorders.

Symptoms/effects after skin contact : Causes severe skin burns.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Carbon dioxide (CO_2). Water spray. Dry powder. Alcohol resistant foam.
Unsuitable extinguishing media : Do not use water jet.

5.2. Specific hazards arising from the chemical

Explosion hazard : Attacks many metals releasing highly flammable gas (hydrogen) which generates fire or explosion hazards.
Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO_2). Sulphur oxides. Hydrogen sulfide. Sulphur dioxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not allow run-off from fire fighting to enter drains or water courses.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. acid-resistant protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ensure that there is a suitable ventilation system.

For non-emergency personnel

Protective equipment : Only qualified personnel equipped with suitable protective equipment may intervene.
Emergency procedures : Evacuate unnecessary personnel. Avoid breathing vapours, mist. Avoid any direct contact with the product.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions : Do not discharge into drains or waterways without neutralizing. Notify authorities if product enters sewers or public waters.

6.2. Methods and materials for containment and cleaning up

For containment : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
Methods for cleaning up : After cleaning, flush traces away with water. Neutralize spill with quicklime or soda ash.

For disposal of contaminated materials refer to section 13 : "Disposal considerations"

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid any direct contact with the product. Wear recommended personal protective equipment. Handle and open the container with care. Handle in accordance with good industrial hygiene and safety practice.

Hygiene measures : Do not drink, eat or smoke in the workplace. Wash hands immediately after handling the product.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep container tightly closed. Store in dry, cool, well-ventilated area.

Incompatible materials : Strong oxidizing agents. Strong bases. Strong reducing agents. Metals. Sulphur trioxide. Combustible materials.

Heat and ignition sources : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Packaging materials : Store in original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Sulphuric acid (7664-93-9)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Sulfuric acid
ACGIH OEL TWA	0.2 mg/m³ (T - Thoracic particulate matter)
Remark (ACGIH)	TLV® Basis: Pulm func. Notations: A2 (Suspected Human Carcinogen. Classification refers to sulfuric acid contained in strong inorganic acid mists)
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Sulfuric acid
OSHA PEL TWA	1 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures, such as personal protective equipment

Hand protection:

Nitrile rubber gloves. Use neoprene gloves. Breakthrough time : refer to the recommendations of the supplier

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing.

Respiratory protection:

In foggy-vaporous situations, use of a spreading over all facemask with a suitable inorganic acid filler

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state : Liquid

Appearance : Clear.

Colour : Clear

Odour	:	No data available
Odour threshold	:	No data available
pH	:	No data available
Melting point	:	-33.67 °C (Sulfuric acid CAS 7664-93-9)
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	0.485 hPa (Sulfuric acid CAS 7664-93-9)
Relative vapour density at 20°C	:	No data available
Relative density	:	1.84 at 20 °C (Sulfuric acid CAS 7664-93-9)
Solubility	:	Water: 1 g/l at 20 °C (Sulfuric acid CAS 7664-93-9)
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	22.5 mPa·s at 20 °C (Sulfuric acid CAS 7664-93-9)
Explosive limits	:	No data available
Particle characteristics	:	No data available

Sulphuric acid	
Particle characteristics	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

Reacts violently with : Strong reducing agents, Metals, Sulphur trioxide, Oxidation agents, Fuels. Attacks many metals releasing highly flammable gas (hydrogen) which generates fire or explosion hazards.

10.4. Conditions to avoid

Keep away from heat.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Strong reducing agents. Metals. Sulphur trioxide. Combustible materials.

10.6. Hazardous decomposition products

No decomposition if stored normally.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	:	Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	:	Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation)	:	Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	:	Causes severe skin burns.
Serious eye damage/irritation	:	Causes serious eye damage.
Respiratory or skin sensitisation	:	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	:	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	:	Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	:	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	:	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	:	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	:	Not classified (Based on available data, the classification criteria are not met)

Battery Fluid, Sulphuric Acid	
Viscosity, kinematic	No data available

Potential adverse human health effects and symptoms	:	Overexposure to sulfuric acid mists can cause lung damage and aggravate lung disorders.
Symptoms/effects after skin contact	:	Causes severe skin burns.
Symptoms/effects after eye contact	:	Causes serious eye damage.
Symptoms/effects after ingestion	:	Severe irritation or burns to the mouth, throat, oesophagus, and stomach.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short–term (acute)	:	Harmful to aquatic life
Hazardous to the aquatic environment, long–term (chronic)	:	Not classified (Based on available data, the classification criteria are not met)

Sulphuric acid (7664-93-9)	
LC50 fish	16 – 28 mg/l/96h (Lepomis macrochirus) (literature)

12.2. Persistence and degradability

Battery Fluid, Sulphuric Acid	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone	:	Not classified
Other adverse effects	:	Might be harmful to aquatic environment due to the modification of the pH.
Fluorinated greenhouse gases	:	No

SECTION 13 Disposal considerations

Waste treatment methods	:	Dispose of in accordance with relevant local regulations.

Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
UN2796	2796	2796
14.2. Proper Shipping Name		
Battery fluid, acid	BATTERY FLUID, ACID (Sulphuric acid)	Battery fluid, acid (Sulphuric acid)
14.3. Transport hazard class(es)		
8	8	8
		
14.4. Packing group		
II	II	II
14.5. Environmental hazards		
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN2796

DOT Special Provisions (49 CFR 172.102)	:	A3 - For combination packagings, if glass inner packagings (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packagings. A7 - Steel packagings must be corrosion-resistant or have protection against corrosion. B2 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks are not authorized. B15 - Packagings must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N6 - Battery fluid packaged with electric storage batteries, wet or dry, must conform to the packaging provisions of 173.159 (g) or (h) of this subchapter. N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T8 - 4 178.274(d)(2) Normal..... Prohibited TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	202
DOT Packaging Bulk (49 CFR 173.xxx)	:	242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	30 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) ‘‘On deck only’’ on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

IMDG

Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
IBC special provisions (IMDG)	:	B20
Tank instructions (IMDG)	:	T8
Tank special provisions (IMDG)	:	TP2
EmS-No. (Fire)	:	F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	:	S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	:	B
Segregation (IMDG)	:	SGG1, SG36, SG49

IATA

PCA Excepted quantities (IATA)	:	E2
PCA Limited quantities (IATA)	:	Y840
PCA limited quantity max net quantity (IATA)	:	0.5L
PCA packing instructions (IATA)	:	851
PCA max net quantity (IATA)	:	1L
CAO packing instructions (IATA)	:	855
CAO max net quantity (IATA)	:	30L

ERG code (IATA) : 8L

SECTION 15 Regulatory information

15.1. Federal regulations

Battery Fluid, Sulphuric Acid	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Sulphuric acid	7664-93-9	Present	Active	

Sulphuric acid (7664-93-9)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

15.2. International regulations

CANADA

Sulphuric acid (7664-93-9)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Sulphuric acid (7664-93-9)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Battery Fluid, Sulphuric Acid
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory All chemical substances in this product are listed on the Canadian DSL (Domestic Sustances List) All chemical substances in this product are listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Sulphuric acid (7664-93-9)
Listed as carcinogen on NTP (National Toxicology Program)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Sulphuric acid(7664-93-9)	U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 Other Information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 3/14/2025

Data sources : SDS of suppliers. ECHA - European Chemicals Agency.

Full text of hazard classes and H-statements	
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H402	Harmful to aquatic life

Abbreviations and acronyms	
LC50	Median lethal concentration
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Dry Charged Lead Battery (no Acid)

Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
Issue date: 3/14/2025 Version: 1.0

SECTION 1 Identification

1.1. Product identifier

Product form : Article
Name : Dry Charged Lead Battery (no Acid)

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Battery

1.4. Supplier's details

Supplier
BS BATTERY
30 Rue Pasteur
Suresnes, 92150
France
T +33 1 83 62 45 55
contact@bs-battery.com

Distributor
BS Battery USA Inc
6950 Bryan Dairy Road Suite A
Largo, Florida 33777
United States
T 727-201-5409 (ext. 101)
contact@bs-battery.com

1.5. Emergency phone number

Emergency number : 727-201-5409
from 8:30 AM to 5:00 PM, Monday to Friday

SECTION 2 Hazard identification

2.1. Classification of the substance or mixture

GHS-US classification

Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Acute toxicity (inhalation:dust,mist), Category 4	H332	Harmful if inhaled.
Carcinogenicity, Category 1B	H350	May cause cancer.
Reproductive toxicity, Category 1A	H360	May damage fertility or the unborn child.
Reproductive toxicity, Additional category, Effects on or via lactation	H362	May cause harm to breast-fed children.
Specific target organ toxicity — Repeated exposure, Category 1	H372	Causes damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment — Chronic Hazard, Category 1	H410	Very toxic to aquatic life with long lasting effects.

Full text of H-statements: see section 16

2.2. Label elements

No labelling obligation.

2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

2.4. Hazards not otherwise classified

Other hazards which do not result in classification : None known.

2.5. Unknown acute toxicity

No additional information available

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Lead	CAS-No.: 7439-92-1	56 – 63	Carc. 2, H351 Repr. 1A, H360 Lact., H362 STOT RE 1, H372 Aquatic Chronic 1, H410
Lead dioxide	CAS-No.: 1309-60-0	27 – 37	Ox. Sol. 3, H272 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 1B, H350 Repr. 1A, H360 STOT RE 1, H372 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Antimony	CAS-No.: 7440-36-0	0.03 – 0.05	Repr. 1A, H360 STOT RE 1, H372 Aquatic Acute 2, H401 Aquatic Chronic 3, H412 Comb. Dust

Full text of hazard classes and H-statements : see section 16

SECTION 4 First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation : In the event of contact with the contents of a damaged battery. Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.

First-aid measures after skin contact : In the event of contact with the contents of a damaged battery. Remove contaminated clothes. Wash skin thoroughly with mild soap and water. Wash contaminated clothing before reuse. Get immediate medical advice/attention.

First-aid measures after eye contact : In the event of contact with the contents of a damaged battery. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Contact ophthalmologist immediately.

First-aid measures after ingestion : In the event of contact with the contents of a damaged battery. Do not induce vomiting. Rinse mouth out with water (only if the person is conscious). Get immediate medical advice/attention.

4.2. Most important symptoms/effects, acute and delayed

Potential adverse human health effects and symptoms : Cells are hermetically closed articles which do not present a risk provided they are used in accordance with the manufacturer's instructions.

Symptoms/effects after inhalation : In case of contact with a mixture contained in the article: Giddiness. Toxicity hazard. non exhaustive list.

Symptoms/effects after ingestion : In case of contact with a mixture contained in the article: Abdominal pain, nausea. Toxicity hazard. non exhaustive list.

Chronic symptoms : May cause cancer. May damage fertility or the unborn child.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Dry chemical powder. Foam. Carbon dioxide (CO2).

5.2. Specific hazards arising from the chemical

Fire hazard : During combustion : Toxic fumes are released.

Hazardous decomposition products in case of fire : Toxic fumes are released. Lead oxide. Lead compounds . Antimony compound.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Evacuate the danger area. Cool down the containers exposed to heat with a water spray. Contain the extinguishing fluids by bunding.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Ventilate spillage area.

For non-emergency personnel

Protective equipment : Do not attempt to take action without suitable protective equipment. Avoid contact with skin and eyes.

Emergency procedures : Mark the danger area. Avoid contact with skin and eyes. Do not breathe dust. No flames, no sparks. Eliminate all sources of ignition.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions : Contain the spilled material by bunding.

6.2. Methods and materials for containment and cleaning up

For containment : Shovel into suitable and closed container for disposal.

Methods for cleaning up : Vacuum up the product.

Other information : Recycle or dispose of in compliance with current legislation.

For further information refer to section 8: "Exposure controls/personal protection",For waste disposal after cleaning, see section 13

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	:	Ensure good ventilation of the work station. Avoid any direct contact with the product. Keep away from open flames, hot surfaces and sources of ignition. Handle in accordance with good industrial hygiene and safety practice. Do not expose pregnant or breastfeeding women. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers.
Hygiene measures	:	Do not drink, eat or smoke in the workplace. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions	:	Store in dry, cool, well-ventilated area. Keep container dry.
Incompatible materials	:	Sulphides. Oxidizing agents. Peroxides. Phosphorus. Ketones. Strong bases. Organic materials. Alkalis. Oxidizing materials. Acids. Halogens.
Information on mixed storage	:	Keep away from food, drink and animal feeding stuffs.
Heat and ignition sources	:	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from heat and direct sunlight.
Packaging materials	:	Store in original container.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Antimony (7440-36-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Antimony and compounds, as Sb
ACGIH OEL TWA	0.5 mg/m³
Remark (ACGIH)	TLV® Basis: Skin & URT irr
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Antimony and compounds (as Sb)
OSHA PEL TWA	0.5 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

Lead (7439-92-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Lead and inorganic compounds, as Pb
ACGIH OEL TWA	0.05 mg/m³
Remark (ACGIH)	TLV® Basis: CNS & PNS impair; hematologic eff. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans); BEI
Regulatory reference	ACGIH 2024
USA - ACGIH - Biological Exposure Indices	
Local name	Lead and inorganic compounds
BEI	200 µg/l Parameter: Lead - Medium: blood - Sampling time: Not critical

Lead (7439-92-1)	
Remark	Persons applying this BEI® are encouraged to counsel female workers of child-bearing age about the risk of delivering a child with a PbB over the current CDC reference value.
Regulatory reference	ACGIH 2024
USA - NIOSH - Occupational Exposure Limits	
Local name	Lead inorganic (as Pb)
NIOSH REL 10h TWA	0.05 mg/m³
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure that there is a suitable ventilation system.

8.3. Individual protection measures, such as personal protective equipment

Hand protection:
Not required for normal conditions of use. In the event of contact with the contents of a damaged battery. Protective gloves. Breakthrough time : refer to the recommendations of the supplier

Eye protection:
Not required for normal conditions of use. If dust are formed : Safety spectacles with side shields

Skin and body protection:
Not required for normal conditions of use. In the event of contact with the contents of a damaged battery. Wear suitable protective clothing

Respiratory protection:
Not required for normal conditions of use. If dust are formed : Dust mask

Other information:
Do not expose pregnant or breastfeeding women. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers.

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Solid
Colour	:	Black
Odour	:	No data available
Odour threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	No data available
Flash point	:	No data available
Flammability (solid, gas)	:	No data available
Vapour pressure	:	10 mm Hg at 20 °C
Relative vapour density at 20°C	:	No data available
Relative density	:	No data available
Solubility	:	No data available
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available

Explosive limits : No data available
Explosive properties : Not explosive.
Oxidising properties : Non oxidizing.
Particle characteristics : No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

SECTION 10 Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

High temperature. Direct sunlight. Protect from moisture. Avoid shock and friction. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Sulphides. Oxidation agents. Peroxides. Phosphorus. Ketones. Strong bases. Organic materials. Alkalis. Oxidizing materials.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not subject
Acute toxicity (dermal) : Not subject
Acute toxicity (inhalation) : Not subject

Dry Charged Lead Battery (no Acid)	
ATE US (oral)	1351.351 mg/kg bodyweight
ATE US (dust,mist)	4.054 mg/l/4h

Skin corrosion/irritation : Not subject

Serious eye damage/irritation : Not subject

Respiratory or skin sensitisation : Not subject
Germ cell mutagenicity : Not subject

Carcinogenicity : Not subject

Reproductive toxicity : Not subject
STOT-single exposure : Not subject
STOT-repeated exposure : Not subject

Aspiration hazard : Not subject

Dry Charged Lead Battery (no Acid)	
Viscosity, kinematic	No data available

Potential adverse human health effects and symptoms : Cells are hermetically closed articles which do not present a risk provided they are used in accordance with the manufacturer's instructions.

Symptoms/effects after inhalation : In case of contact with a mixture contained in the article: Giddiness. Toxicity hazard. non exhaustive list.

Symptoms/effects after ingestion : In case of contact with a mixture contained in the article: Abdominal pain, nausea. Toxicity hazard. non exhaustive list.

Chronic symptoms : May cause cancer. May damage fertility or the unborn child.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short–term (acute) : Not subject

Hazardous to the aquatic environment, long–term (chronic) : Not subject

12.2. Persistence and degradability

Dry Charged Lead Battery (no Acid)	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Ozone : Not classified

Fluorinated greenhouse gases : No

SECTION 13 Disposal considerations

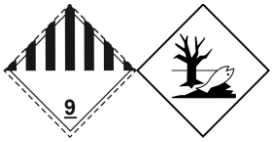
Waste treatment methods : Dispose of in accordance with relevant local regulations.

Additional information : The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal.

SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

DOT	IMDG	IATA
14.1. UN number		
UN3077	3077	3077

DOT	IMDG	IATA
14.2. Proper Shipping Name		
Environmentally hazardous substances, solid, n.o.s. (Lead ; Lead dioxide)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Lead ; Lead dioxide)	Environmentally hazardous substance, solid, n.o.s. (Lead ; Lead dioxide)
14.3. Transport hazard class(es)		
9	9	9
		
14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT) : UN3077

DOT Special Provisions (49 CFR 172.102)	:	8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description “Other regulated substances, liquid or solid, n.o.s.”, as appropriate. In addition, for solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as “Environmentally hazardous substances, solid, n.o.s,” UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging. 384 - For transportation by motor vehicle, substances meeting the conditions for high viscosity flammable liquids as prescribed in §173.121(b)(1)(i), (b)(1)(ii), and (b)(1)(iv) of this subchapter, may be reassigned to Packing Group III under the following conditions: A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg: a. Metal: 11A, 11B, 11N, 21A, 21B and 21N b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2 c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2 d. Fiberboard: 11G e. Wooden: 11C, 11D and 11F (with inner liners) f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner). B54 - Open-top, sift-proof rail cars are also authorized. B120 - The use of flexible bulk containers conforming to the requirements in subpart R and subpart S of part 178 of this subchapter is permitted. IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner. N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle. N91 - The use of a non specification sift-proof, non-bulk, metal can with or without lid, or a non specification sift-proof, non-bulk fiber drum, with or without lid is authorized when transporting coal tar pitch compounds by motor vehicle or rail freight. The fiber drum must to be fabricated with a three ply wall, as a minimum. The coal tar pitch compound must be in a solid mass during transportation. T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	155
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	213
DOT Packaging Bulk (49 CFR 173.xxx)	:	240
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	No Limit

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : No Limit

DOT Vessel Stowage Location : A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.

IMDG

Special provisions (IMDG) : 274, 335, 966, 967, 969
Limited quantities (IMDG) : 5 kg
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : LP02, P002
Special packing provisions (IMDG) : PP12
IBC packing instructions (IMDG) : IBC08
IBC special provisions (IMDG) : B3
Tank instructions (IMDG) : BK1, BK2, BK3, T1
Tank special provisions (IMDG) : TP33
EmS-No. (Fire) : F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage) : S-F - SPILLAGE SCHEDULE Foxtrot - WATER-SOLUBLE MARINE POLLUTANTS
Stowage category (IMDG) : A
Stowage and handling (IMDG) : SW23

IATA

Special provisions (IATA) : A97, A158, A179, A197, A215
PCA Excepted quantities (IATA) : E1
PCA Limited quantities (IATA) : Y956
PCA limited quantity max net quantity (IATA) : 30kgG
PCA packing instructions (IATA) : 956
PCA max net quantity (IATA) : 400kg
CAO packing instructions (IATA) : 956
CAO max net quantity (IATA) : 400kg
ERG code (IATA) : 9L

SECTION 15 Regulatory information

15.1. Federal regulations

Dry Charged Lead Battery (no Acid)	
Subject to reporting requirements of United States SARA Section 313	
SARA Section 311/312 Hazard Classes	Health hazard - Carcinogenicity Health hazard - Acute toxicity (any route of exposure) Health hazard - Reproductive toxicity Health hazard - Specific target organ toxicity (single or repeated exposure)

Commercial status of components according to the United States Environmental Protection Agency’s Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Antimony	7440-36-0	Present	Active	
Lead dioxide	1309-60-0	Present	Active	
Lead	7439-92-1	Present	Active	

Antimony (7440-36-0)	
Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	5000 lb

Lead dioxide (1309-60-0)
Not subject to reporting requirements of the United States SARA Section 313

Lead (7439-92-1)	
Subject to reporting requirements of United States SARA Section 313 Listed on EPA Hazardous Air Pollutant (HAPS) Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits	
CERCLA RQ	10 lb

15.2. International regulations

CANADA

Antimony (7440-36-0)
Listed on the Canadian DSL (Domestic Substances List)

Lead dioxide (1309-60-0)
Listed on the Canadian DSL (Domestic Substances List)

Lead (7439-92-1)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

Lead dioxide (1309-60-0)
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

National regulations

Dry Charged Lead Battery (no Acid)
All chemical substances in this product are listed on the Canadian DSL (Domestic Sustances List) All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

Antimony (7440-36-0)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

Lead dioxide (1309-60-0)
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory Listed on KECL/KECI (Korean Existing Chemicals Inventory) Listed on NZIoC (New Zealand Inventory of Chemicals) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Japanese Poisonous and Deleterious Substances Control Law Japanese Pollutant Release and Transfer Register Law (PRTR Law) Listed on INSQ (Mexican National Inventory of Chemical Substances)

Lead (7439-92-1)
Listed on IARC (International Agency for Research on Cancer) Listed as carcinogen on NTP (National Toxicology Program) Listed on EPA HAPs Chronic Dose Response Assessment List - Carcinogens Listed on EPA HAPs Acute Dose Response Assessment List – Exposure limits Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Antimony(7440-36-0)	U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Lead dioxide(1309-60-0)	U.S. - New York City - Right to Know Hazardous Substances List
Lead(7439-92-1)	U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 Other Information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)
Issue date : 3/14/2025
Data sources : ECHA (European Chemicals Agency).

Full text of hazard classes and H-statements	
H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H332	Harmful if inhaled
H350	May cause cancer.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H362	May cause harm to breast-fed children
H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

Abbreviations and acronyms	
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
ATE	Acute Toxicity Estimate

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.