Battery Electrolyte / Battery Acid

Safety Data Sheet

According to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name	Battery Electrolyte / Battery Acid
Synonyms	Battery Electrolyte / Battery Acid (diluted sulfuric acid)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified Use(s)	Battery Electrolyte
Uses Advised Against	None identified

1.3 Details of the supplier of the safety data sheet

Supplier

Company Identification	Interstate Batteries Inc.
Address	12770 Merit Drive Suite 1000 Dallas, TX 75251
Telephone:	866-884-4635

1.4 Emergency telephone number

Emergency Phone No.	1-800-255-3924 (24 HOURS) Chemtel

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

US 29 CFR 1910.1200	Skin corrosion/irritation, Category 1A Serious eye damage/irritation, Category 1

2.2 Label elements

According to US 29 CFR 1910.1200

Product Name	Battery Electrolyte / Battery Acid
Hazard Pictogram(s)	
Signal Word(s)	Danger
Hazard Statement(s)	Causes severe skin burns and eye damage.
Precautionary Statement(s)	Do not breathe mist/vapors/spray. Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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 CENTER/doctor.
Wash contaminated clothing before reuse.
Store locked up.
Dispose of this material and its container to hazardous or special waste collection point.

2.3 Other hazards

Other hazards which do not result in classification	Prolonged or repeated Inhalation of vapors may cause damage to respiratory system. Prolonged or repeated Inhalation of vapors cause cancer. Inhalation of spray or vapors cause respiratory irritation.

2.4 Unknown acute toxicity

Not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Not applicable.

3.2 Mixtures

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W
Sulphuric acid	7664-93-9	36 - 45

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets.
This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation	Keep patient at rest and give oxygen if breathing difficult. Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation. Immediately call a POISON CENTER/doctor.
Skin Contact	Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Immediately call a POISON CENTER/doctor.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
Ingestion	Rinse mouth. Do NOT induce vomiting. Immediately call a POISON

CENTER/doctor. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Causes burns. Possible burning sensation of affected areas. Sore throat. Cough. May cause shortness of breath. Symptoms may develop after several hours. SKIN: Redness. Pain. Blisters. EYES: Redness. Pain.

4.3 Indication of any immediate medical attention and special treatment needed

Immediately call a POISON CENTER/doctor. Treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media	As appropriate for surrounding fire. Use water fog or dry powder to extinguish.
Unsuitable Extinguishing Media	Do not use water jet.

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapors, sulfur oxides.

5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective clothing, gloves and eye/face protection. Eliminate sources of ignition. Isolate from reducers and flammable/ combustible materials etc in storage. Evacuate the area and keep personnel upwind. Do not use in confined spaces. Provide adequate ventilation.

6.2 Environmental precautions

This material and its container must be disposed of in a safe way.

6.3 Methods and material for containment and cleaning up

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal.

6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle and open container with care. Avoid contact with skin and eyes. Use only with adequate ventilation. Use caution when combining with water; DO NOT add water to corrosive liquid, ALWAYS add corrosive liquid to water while stirring to prevent release of heat, steam and fumes. Wear protective gloves/eye protection/face protection. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from incompatible materials. Keep container/package tightly closed in well-ventilated place. Ventilate enclosed areas.

Storage temperature: Ambient.

Storage life: Stable under normal conditions.

Incompatible materials: Bases, halides, organic materials, carbides, fulminates, nitrates, picrates, cyanides, chlorates, alkali halides, zinc salts, permanganates, e.g., potassium permanganate, hydrogen peroxide, azides, perchlorates, nitromethane, phosphorous; Reacts violently with: cyclopentadiene, cyclopentanone oxime, nitroaryl amines, hexalithium disilicide, phosphorous(iii) oxide, powdered metals.

7.3 Specific end use(s)

Not known.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note:
Sulfuric acid	7664-93-9		0.2			ACGIH TLV, T, A2, M
Sulfuric acid	7664-93-9		1			NIOSH REL Z-1
Sulfuric acid	7664-93-9		0.1		3	OSHA PEL
Sulfuric acid	7664-93-9		1			OSHA PEL Z-1

Remark	Notes
ACGIH TLV	The American Conference of Governmental Industrial Hygienists (ACGIH®) Threshold Limit Values (TLVs®) 2020
T	Thoracic particulate matter
A2	Suspected Human Carcinogen
M	Classification refers to sulfuric acid contained in strong inorganic acid mists.
NIOSH REL Z-1	National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limits (RELs) from the NIOSH Pocket Guide to Chemical Hazards table Z-1: Up to 10-hour time weighted average (TWA) during a 40-hour work week
OSHA PEL	Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
OSHA PEL Z-1	Occupational Safety and Health Administration (OSHA) Permissible Exposure Limit (PEL) from 29 CFR 1910.1000 Z-1 Table

8.2 Exposure controls

8.2.1. Appropriate engineering controls: Ensure adequate ventilation. Eyewash stations and safety showers should be provided with unlimited water supply.

8.2.2. Personal protection equipment

Eye Protection: . When handling this substance, e.g., sampling, wear goggles giving complete eye protection. Wear protective eyewear (goggles, face shield, or safety glasses).

Skin protection — Wear protective clothing and gloves: Impervious gloves. Plastic or synthetic rubber gloves, apron and boots.

Respiratory protection — [In case of inadequate ventilation] wear respiratory protection.

Thermal hazards — None known.

8.2.3. Environmental Exposure Controls — Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid. Clear.
	Color : Colorless.
Odor	Pungent.
Odor Threshold	Not known.
pH	< 1
Melting Point/Freezing Point	Not known.
Initial boiling point and boiling range	203 – 205 F
Flash Point	Not known.
Evaporation Rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
Vapor pressure	10 mmHg
Vapor density	1
Density (g/ml)	10.14 - 11.27 lbs/gal
Relative density	1.215 - 1.35 (water=1)
Solubility(ies)	Solubility (Water) : Soluble.
	Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	Not known.
Explosive properties	Not known.
Oxidizing properties	Not known.

9.2 Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reactive with incompatible chemicals.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

10.4 Conditions to avoid

Avoid contact with: Incompatible materials.

10.5 Incompatible materials

Metals, oxidizing agents, reducing agents, bases, acrylonitrile, chlorates, finely powdered metals, nitrates, perchlorates, permanganates, epichlorohydrin, aniline, carbides, fulminates, picrates, organic materials, flammable liquids.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity - Ingestion	Not classified.
Acute toxicity - Skin Contact	Not classified.
Acute toxicity - Inhalation	Not classified.
Skin corrosion/irritation	Calculation method : Causes severe skin burns and eye damage.
Serious eye damage/irritation	Calculation method : Causes serious eye damage.
Skin sensitization data	Not classified.
Respiratory sensitization data	Not classified.
Germ cell mutagenicity	Not classified.
Carcinogenicity	ACGIH: A2 - Suspected Human Carcinogen (contained in strong inorganic acid mists) NTP: Known carcinogen (listed as Strong inorganic acid mists containing s). IARC: Group 1 carcinogen
Reproductive toxicity	Not classified.
Lactation	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Not classified.
Aspiration hazard	Not classified.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.

Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

12.2 Persistence and degradability

Not known.

12.3 Bioaccumulative potential

Not known.

12.4 Mobility in soil

Not known.

12.5 Other adverse effects

Not known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of this material and its container to hazardous or special waste collection point. Send to a licensed recycler, reclaimer or incinerator. Dispose at suitable refuse site.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No.	2796

14.2 UN proper shipping name

UN proper shipping name	BATTERY FLUID, ACID
DOT Description/ proper shipping name	Sulfuric acid with not more than 51% acid

14.3 Transport hazard class(es)

DOT Class	8
DOT Label	8
DOT Special Provisions	386, A3, A7, B2, B15, IB2, N6, N34, T8, TP2
DOT Packaging Exceptions	154
DOT Packaging Non Bulk	202
DOT Packaging Bulk	242
DOT Quantity Limitations Passenger aircraft/rail	1 L
DOT Quantity Limitations Cargo aircraft	30 L
DOT Vessel Stowage Location	B

Transport by sea/Air transport

IMDG Class	8
Special Provisions	
Limited Quantities	1 L
Excepted Quantities	E2
Mixed Packing Instructions for Packages	P001 IBC02
Special Packing Provisions for Packages	
Packing Instructions for Portable Tanks	T8
Special Provisions for Portable Tanks	TP2
IMDG EMS	F-A, S-B
Stowage and Handling	Category B
Segregation	SGG18 SG22 S35
Marine Pollutant	
ICAO/IATA	
IATA Proper Shipping Name	BATTERY FLUID, ACID
Excepted Quantities	E2
Passenger and Cargo Aircraft Limited Quantities Packing Instructions	Y840
Passenger and Cargo Aircraft Limited Quantities Max net Qty	0.5L
Passenger and Cargo Aircraft Packing Instructions	851
Passenger and Cargo Aircraft Max net Qty	1L
Cargo Aircraft Packing Instructions	855
Cargo Aircraft Max net Qty	30L
Special Provisions	
Emergency Response Guidebook (ERG) Code	8L
Labels	
Labels	8

14.4 Packing group

Packing group	II

14.5 Environmental hazards

Environmental hazards	Not classified as a Marine Pollutant.

14.6 Special precautions for user

Special precautions for user	Not known.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available

SECTION 15: REGULATORY INFORMATION

15.1 US Federal Regulations

Toxic and hazardous substances (29 CFR 1910; Subpart Z)	Listed : 7664-93-9
National emission standards for hazardous air pollutants (40 CFR 61.01)	Not listed
SARA Title III Section 313	Not listed
TSCA (Toxic Substance Control Act)	Listed : 7664-93-9 (Active), 7732-18-5 (Active)
CAA 602 - Ozone Depleting Substances (ODS)	Not listed

15.2 US State Regulations

State Right to Know Lists	
Proposition 65 (California)	Listed : 7664-93-9
Minnesota	Listed : 7664-93-9
New Jersey	Listed : 7664-93-9
Pennsylvania	Listed : 7664-93-9
Rhode Island	Listed : 7664-93-9

15.3 Other

OSPAR List of Chemicals for Priority Action	Not listed
OSHA (List of Highly Hazardous Chemicals, Toxics and Reactives)	Not listed
NTP (National Toxicology Program)	Listed : 7664-93-9
IARC (International Agency for Research on Cancer)	Listed : 7664-93-9

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

Acronyms	CAS : Chemical Abstracts Service DOT : Department of Transport IATA : International Air Transport Association IBC : Intermediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations
Key literature references and sources for data used to compile the SDS	US CFR 1910.1200
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