SAFETY DATA SHEET

1. Identification

Product identifier	**Lead Acid Battery**
Other means of identification	
Synonyms	Wet Acid Storage Battery
Recommended use	Storage battery.
Recommended restrictions	None known.
Manufacturer/Importer/Supplier/Distributor information	
Company name	Trojan Battery Company, LLC
Address	12380 Clark Street Santa Fe Springs, CA 90670 United States of America
Website	www.trojanbattery.com
Telephone	+1(562) 236-3000 or +1(800) 423-6569
EHS Technical contact	+1(978) 727-2206 or +1(610) 858-6192
Emergency telephone	CHEMTREC: (800) 424-9300 (US & CA) International: +1(703) 527-3887

2. Hazard(s) identification

Physical hazards	Corrosive to metals	Category 1
Health hazards	Skin corrosion/irritation	Category 1A
	Serious eye damage/eye irritation	Category 1
	Carcinogenicity	Category 1A
	Reproductive toxicity	Category 1A
	Reproductive toxicity	Effects on or via lactation
	Specific target organ toxicity, single exposure	Category 3 respiratory tract irritation
	Specific target organ toxicity, repeated exposure	Category 1 (blood, central nervous system, kidneys)
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1
	Hazardous to the aquatic environment, long-term hazard	Category 1
OSHA defined hazards	Not classified.	

Label elements

Signal word	Danger
Hazard statement	The materials contained in this product may only represent a hazard if the integrity of the cell or battery is compromised. Listed below are the hazards anticipated when the battery is physically, thermally, or electrically abused: May be corrosive to metals. Causes severe skin burns and eye damage. May cause cancer. May damage fertility or the unborn child. May cause harm to breast-fed children. May cause respiratory irritation. Causes damage to organs (blood, central nervous system, kidneys) through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention	Keep out of reach of children. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep only in original container. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact during pregnancy/while nursing. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
Response	If exposed or concerned: Get medical advice/attention. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. 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. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. Absorb spillage to prevent material damage. Collect spillage.
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant container with a resistant inner liner.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	Under normal conditions of processing and use, exposure to the chemical constituents in this product is unlikely. Batteries may get hot, explode or ignite and cause serious injury if mishandled, crushed or abused. When exposed to heat, when short circuited, or when exposed to incompatible materials, the battery may rupture and release hazardous substances. These substances can explode and burn. Burning batteries may emit toxic fumes.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Lead	7439-92-1	62
Sulfuric acid	7664-93-9	31
Antimony	7440-36-0	1
Tin	7440-31-5	0.2
Arsenic	7440-38-2	0.1

Case and Separators

Chemical name	Common name and synonyms	CAS number	%
Polypropylene		9003-07-0	3.5
Silica		112926-00-8	1.2
Natural rubber		9006-04-6	0.5
Oil		64742-52-5	0.5

Composition comments The ingredients listed in section 3 are contained in a sealed container. Risk of exposure only occurs if battery is mechanically, thermally or electrically abused.
All concentrations are in percent by weight.

4. First-aid measures

Inhalation Exposure to contents of an open or damaged battery: Move to fresh air. Oxygen or artificial respiration if needed. Get medical attention immediately.

Skin contact Exposure to contents of an open or damaged battery: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact Exposure to contents of an open or damaged battery: Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Exposure to contents of an open or damaged battery: Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed	Under normal conditions of intended use, this product is not expected to be a health risk. Exposure to contents of an open or damaged battery: Narcosis. Behavioral changes. Decrease in motor functions. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Coughing. Prolonged exposure may cause chronic effects.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
General information	IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media	Foam. Special powder against metal fires. Dry sand.
Unsuitable extinguishing media	Leak from a damaged or opened battery: Do not use water unless flooding amounts are available. Do not use carbon dioxide directly on cells.
Specific hazards arising from the chemical	In the event of fire and/or explosion do not breathe fumes. During fire, hazardous combustion products are released that may include: Carbon oxides. Sulfur oxides. Fumes of metal oxides. Hydrogen and oxygen gases are produced in the cells during normal battery operation (hydrogen is flammable and oxygen supports combustion). These gases enter the air through the vent caps. To avoid the chance of fire or explosion, keep sparks and other sources of ignition away from battery.
Special protective equipment and precautions for firefighters	Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.
Fire fighting equipment/instructions	Fight fire from protected location or safe distance. Keep upwind. Move containers from fire area if you can do so without risk. Avoid discharge into drains, water courses or onto the ground.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Under normal use, the battery does not exhibit flammable properties. In the event that the battery is abused and disassembly of the battery occurs resulting in exposure of internal components, the exposed solution may be flammable and/or corrosive. Exposure to excessive heat may lead to venting or rupture of the sealed battery, exposing the internal components which may be corrosive and/or flammable. Vented gas would be flammable when in sufficient concentration.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. In the event of damage resulting in a leak or exposed materials, avoid contact with contents of an open or damaged cell or battery. Wear protective clothing as described in Section 8 of this safety data sheet.
Methods and materials for containment and cleaning up	Leak from a damaged or opened battery: Contain spillage with sand or earth. Place in a designated labeled waste container, dispose as hazardous waste. For waste disposal, see Section 13 of the SDS.
Environmental precautions	Avoid allowing material from exposed battery to contaminate soil, sanitary sewers, or waterways.

7. Handling and storage

Precautions for safe handling	Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire. Protect against physical damage. Do not open, disassemble, crush or burn battery. Do not expose battery to extreme heat or fire. Elevated temperatures can result in reduced battery service life. Wash hands thoroughly after handling. Do not release into the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Store locked up. Keep out of reach of children. Prevent short circuits. Store in original packaging. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep at room temperature. Avoid contact with water and moisture. Protect from heat and direct sunlight. Inspect periodically for damage or leaks. Store away from incompatible materials (See Section 10).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Components	Type	Value
Arsenic (CAS 7440-38-2)	TWA	0.01 mg/m3
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Antimony (CAS 7440-36-0)	PEL	0.5 mg/m3
Sulfuric acid (CAS 7664-93-9)	PEL	1 mg/m3

Case and Separators	Type	Value	Form
Oil (CAS 64742-52-5)	PEL	5 mg/m3	Mist.
		2000 mg/m3	
		500 ppm	

US. OSHA Table Z-3 (29 CFR 1910.1000)

Case and Separators	Type	Value	Form
Silica (CAS 112926-00-8)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		0.8 mg/m3	
		20 mppcf	

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Antimony (CAS 7440-36-0)	TWA	0.5 mg/m3	
Arsenic (CAS 7440-38-2)	TWA	0.01 mg/m3	
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3	
Sulfuric acid (CAS 7664-93-9)	TWA	0.2 mg/m3	Thoracic fraction.

Case and Separators	Type	Value	Form
Natural rubber (CAS 9006-04-6)	TWA	0.0001 mg/m3	Inhalable fraction.
Oil (CAS 64742-52-5)	TWA	5 mg/m3	Inhalable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Antimony (CAS 7440-36-0)	TWA	0.5 mg/m3
Arsenic (CAS 7440-38-2)	Ceiling	0.002 mg/m3
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3
Sulfuric acid (CAS 7664-93-9)	TWA	1 mg/m3

Case and Separators	Type	Value
Silica (CAS 112926-00-8)	TWA	6 mg/m3

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
Arsenic (CAS 7440-38-2)	35 µg/l	Inorganic arsenic, plus methylated metabolites, as As	Urine	*
Lead (CAS 7439-92-1)	200 µg/l	Lead	Blood	*

* - For sampling details, please see the source document.

Exposure guidelines Airborne exposures to hazardous substances are not expected when product is used for its intended purpose.

US ACGIH Threshold Limit Values: Skin designation

Natural rubber (CAS 9006-04-6) Danger of cutaneous absorption

US. NIOSH: Pocket Guide to Chemical Hazards

Arsenic (CAS 7440-38-2)	Can be absorbed through the skin.

Appropriate engineering controls	Good general ventilation 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection	Leak from a damaged or opened battery: Use approved safety goggles or face shield.
Skin protection	
Hand protection	Leak from a damaged or opened battery: Wear chemical-resistant, impervious gloves. Full contact: Glove material: Nitrile. Use gloves with breakthrough time of 30 minutes. Minimum glove thickness 12 mil. Incidental contact: Glove material: Nitrile. Use gloves with breakthrough time of 10 minutes. Minimum glove thickness 5 mil. Other suitable gloves can be recommended by the glove supplier.
Other	None under normal conditions. Leak from a damaged or opened battery: Wear suitable coveralls to prevent exposure to the skin.
Respiratory protection	None under normal conditions. Leak from a damaged or opened battery: In case of insufficient ventilation, wear suitable respiratory equipment.
Thermal hazards	No protection is ordinarily required under normal conditions of use.
General hygiene considerations	Do not store food, drink and tobacco near the product. Wash hands after handling. Practice good housekeeping. Observe good industrial hygiene practices.

9. Physical and chemical properties

Appearance	
Physical state	Solid.
Form	Battery.
Color	No data available.
Odor	Odorless. If leaking: sharp, penetrating, pungent odor for internal components.
Odor threshold	Not applicable unless individual components exposed.
pH	1 - 2 (Sulfuric acid/battery electrolyte)
Melting point/freezing point	Not applicable unless individual components exposed.
Initial boiling point and boiling range	410 - 473 °F (210 - 245 °C) (Sulfuric acid/battery electrolyte)
Flash point	Not applicable unless individual components exposed.
Evaporation rate	< 1 (n-Butyl acetate=1) (Sulfuric acid/battery electrolyte)
Flammability (solid, gas)	Contains one or more components that will burn if involved in a fire.
Upper/lower flammability or explosive limits	
Explosive limit - lower (%)	Not applicable unless individual components exposed.
Explosive limit - upper (%)	Not applicable unless individual components exposed.
Vapor pressure	10 mmHg (Sulfuric acid/battery electrolyte)
Vapor density	> 1 (Air=1) (Sulfuric acid/battery electrolyte)
Relative density	1.215 - 1.35 (Water=1) (Sulfuric acid/battery electrolyte)
Solubility(ies)	
Solubility (water)	100 % (Sulfuric acid/battery electrolyte)
Partition coefficient (n-octanol/water)	Not applicable unless individual components exposed.
Auto-ignition temperature	Not applicable unless individual components exposed.
Decomposition temperature	Not applicable unless individual components exposed.
Viscosity	Not applicable unless individual components exposed.
Other information	
Density	1.215 - 1.35 g/cm³ (Sulfuric acid/battery electrolyte)
Explosive properties	Not explosive.
Oxidizing properties	Not oxidizing.

10. Stability and reactivity

Reactivity	Exposure to contents of an open or damaged battery: May be corrosive to metals. Reacts with water with release of heat.
Chemical stability	Product is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use. Exposure to contents of an open or damaged battery: Contact with metals may evolve flammable hydrogen gas.
Conditions to avoid	Heat, sparks, flames, elevated temperatures. Protect against direct sunlight. Water, moisture. Shocks and physical damage. Do not open, disassemble, crush or burn battery. Do not allow conductive material to touch the battery terminals. A dangerous short-circuit may occur and cause battery failure and fire.
Incompatible materials	Strong oxidizing agents. Strong reducing agents. Combustibles. Organic material. Metals. Water. Bases. Halides. Halogenated compounds. Potassium nitrate. Permanganates. Peroxides. Bromine azide.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition. Sulfur trioxide. Carbon oxides. Sulfuric acid mist. Sulfur dioxide. Hydrogen sulfide. Arsine gas. Fumes of metal oxides.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Exposure to contents of an open or damaged battery: May cause respiratory irritation.
Skin contact	Under normal conditions of intended use, this material does not pose a skin hazard. Exposure to contents of an open or damaged battery: Causes skin burns.
Eye contact	Under normal conditions of intended use, this material does not pose an eye hazard. Exposure to contents of an open or damaged battery: Causes serious eye damage.
Ingestion	Under normal conditions of intended use, this material does not pose a risk to health. Exposure to contents of an open or damaged battery: May have a corrosive effect on the digestive canal.
Symptoms related to the physical, chemical and toxicological characteristics	Under normal conditions of intended use, this product is not expected to be a health risk. Exposure to contents of an open or damaged battery: Narcosis. Behavioral changes. Decrease in motor functions. Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Prolonged exposure may cause chronic effects. May cause respiratory irritation. Coughing.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results
Arsenic (CAS 7440-38-2)		
Acute		
Oral		
LD50	Mouse	145 mg/kg
	Rat	763 mg/kg
Sulfuric acid (CAS 7664-93-9)		
Acute		
Oral		
LD50	Rat	2140 mg/kg

Case and Separators	Species	Test Results
Oil (CAS 64742-52-5)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
Aerosol		
LC50	Rat	> 5.53 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg

Case and Separators	Species	Test Results
Silica (CAS 112926-00-8)		
Acute		
Dermal		
LD50	Rabbit	> 2000 mg/kg
Inhalation		
LC50	Rat	> 2200 mg/m³, 4 hours
Oral		
LD50	Rat	> 5000 mg/kg

Skin corrosion/irritation Exposure to contents of an open or damaged battery: Causes skin burns.

Serious eye damage/eye irritation Exposure to contents of an open or damaged battery: Causes serious eye damage.

Respiratory or skin sensitization

ACGIH sensitization

Natural rubber latex, as inhalable allergenic proteins (CAS 9006-04-6)	Dermal sensitization
	Respiratory sensitization

Respiratory sensitization Not classified.

Skin sensitization Not classified.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity Exposure to contents of an open or damaged battery: May cause cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Arsenic (CAS 7440-38-2)	1 Carcinogenic to humans.
Lead (CAS 7439-92-1)	2B Possibly carcinogenic to humans.
Oil (CAS 64742-52-5)	3 Not classifiable as to carcinogenicity to humans.
Polypropylene (CAS 9003-07-0)	3 Not classifiable as to carcinogenicity to humans.
Silica (CAS 112926-00-8)	3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Arsenic (CAS 7440-38-2)	Known To Be Human Carcinogen.
Lead (CAS 7439-92-1)	Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Arsenic (CAS 7440-38-2)	Cancer

Reproductive toxicity Exposure to contents of an open or damaged battery: May damage fertility or the unborn child. May cause harm to breastfed babies.

Specific target organ toxicity - single exposure Exposure to contents of an open or damaged battery: May cause respiratory irritation.

Specific target organ toxicity - repeated exposure Exposure to contents of an open or damaged battery: Causes damage to organs (blood, central nervous system, kidneys) through prolonged or repeated exposure.

Aspiration hazard Not an aspiration hazard.

Chronic effects Exposure to contents of an open or damaged battery: Causes damage to organs through prolonged or repeated exposure. Lead may produce maternal toxicity, toxicity to the fetus, and adverse effects to blood, bone marrow, central/peripheral nervous systems, kidney, liver, and reproductive system. Prolonged exposure may cause chronic effects.

Further information Exposure to hazardous ingredients is not anticipated under normal conditions of use.

12. Ecological information

Ecotoxicity No ecological impacts expected under normal use conditions.
The hazards listed below are only anticipated when the integrity of a battery casing is compromised:
Very toxic to aquatic life with long lasting effects.

Components		Species	Test Results
Sulfuric acid (CAS 7664-93-9)			
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	29 mg/l, 24 Hours
Fish	LC50	Lepomis macrochirus	> 16 - < 28 mg/l, 96 Hours
Chronic			
Crustacea	NOEC	Invertebrates (Invertebrates)	0.15 mg/l
Fish	NOEC	Brook trout (Salvelinus fontinalis)	0.13 mg/l

Persistence and degradability The product contains inorganic compounds which are not biodegradable.

Bioaccumulative potential The product contains potentially bioaccumulating substances.

Partition coefficient n-octanol / water (log Kow)
Sulfuric acid (CAS 7664-93-9) -2.2

Mobility in soil The product is not mobile in soil. Some components from a leaking battery may be mobile.

Other adverse effects This product contains one or more substances identified as hazardous air pollutants (HAPs) per the US Federal Clean Air Act (see section 15).

13. Disposal considerations

Disposal instructions Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel]
D008: Waste Lead
D004: Waste Arsenic
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT

UN number UN2794
UN proper shipping name Batteries, wet, filled with acid, electric storage
Transport hazard class(es)
Class 8
Subsidiary risk -
Label(s) 8
Packing group -
Environmental hazards
Marine pollutant Yes
Special precautions for user Read safety instructions, SDS and emergency procedures before handling.
Packaging exceptions 159
Packaging non bulk 159
Packaging bulk 159

IATA

UN number UN2794
UN proper shipping name Batteries, wet, filled with acid electric storage
Transport hazard class(es)
Class 8
Subsidiary risk -
Packing group -
Environmental hazards Yes

ERG Code	8L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number	UN2794
UN proper shipping name	BATTERIES, WET, FILLED WITH ACID electric storage
Transport hazard class(es)	
Class	8
Subsidiary risk	-
Packing group	-
Environmental hazards	
Marine pollutant	Yes
EmS	F-A, S-B
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Lead (CAS 7439-92-1)	0.1 % Annual Export Notification required.

CERCLA Hazardous Substance List (40 CFR 302.4)

Antimony (CAS 7440-36-0)	Listed.
Arsenic (CAS 7440-38-2)	Listed.
Lead (CAS 7439-92-1)	Listed.
Sulfuric acid (CAS 7664-93-9)	Listed.

SARA 304 Emergency release notification

Sulfuric acid (CAS 7664-93-9)	1000 LBS

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Arsenic (CAS 7440-38-2)	Cancer
Lead (CAS 7439-92-1)	Reproductive toxicity
Arsenic (CAS 7440-38-2)	Liver
Lead (CAS 7439-92-1)	Central nervous system
Arsenic (CAS 7440-38-2)	Skin
Lead (CAS 7439-92-1)	Kidney
Arsenic (CAS 7440-38-2)	Respiratory irritation
Lead (CAS 7439-92-1)	Blood
Arsenic (CAS 7440-38-2)	Nervous system
Lead (CAS 7439-92-1)	Acute toxicity
Arsenic (CAS 7440-38-2)	Acute toxicity

Toxic Substances Control Act (TSCA) All components are either listed on the TSCA 8(b) inventory and designated “active” or exempt from listing.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantity (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Sulfuric acid	7664-93-9	1000	1000		

SARA 311/312 Hazardous chemical	Yes
Classified hazard categories	Corrosive to metal Skin corrosion or irritation Serious eye damage or eye irritation Carcinogenicity Reproductive toxicity Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Antimony	7440-36-0	1
Arsenic	7440-38-2	0.1
Lead	7439-92-1	62
Sulfuric acid	7664-93-9	31

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Antimony (CAS 7440-36-0)
Arsenic (CAS 7440-38-2)
Lead (CAS 7439-92-1)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Sulfuric acid (CAS 7664-93-9)

Safe Drinking Water Act (SDWA) Contains component(s) regulated under the Safe Drinking Water Act.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Sulfuric acid (CAS 7664-93-9) 6552

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Sulfuric acid (CAS 7664-93-9) 20 %WV

DEA Exempt Chemical Mixtures Code Number

Sulfuric acid (CAS 7664-93-9) 6552

US state regulations

US. Massachusetts RTK - Substance List

Antimony (CAS 7440-36-0)
Arsenic (CAS 7440-38-2)
Lead (CAS 7439-92-1)
Silica (CAS 112926-00-8)
Sulfuric acid (CAS 7664-93-9)

US. New Jersey Worker and Community Right-to-Know Act

Antimony (CAS 7440-36-0)
Arsenic (CAS 7440-38-2)
Lead (CAS 7439-92-1)
Silica (CAS 112926-00-8)
Sulfuric acid (CAS 7664-93-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Antimony (CAS 7440-36-0)
Arsenic (CAS 7440-38-2)
Lead (CAS 7439-92-1)
Sulfuric acid (CAS 7664-93-9)

US. Rhode Island RTK

Antimony (CAS 7440-36-0)
Arsenic (CAS 7440-38-2)
Lead (CAS 7439-92-1)
Oil (CAS 64742-52-5)
Silica (CAS 112926-00-8)
Sulfuric acid (CAS 7664-93-9)

California Proposition 65

WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Arsenic (CAS 7440-38-2)	Listed: February 27, 1987
Lead (CAS 7439-92-1)	Listed: October 1, 1992
Sulfuric acid (CAS 7664-93-9)	Listed: March 14, 2003

California Proposition 65 - CRT: Listed date/Developmental toxin

Lead (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Female reproductive toxin

Lead (CAS 7439-92-1) Listed: February 27, 1987

California Proposition 65 - CRT: Listed date/Male reproductive toxin

Lead (CAS 7439-92-1) Listed: February 27, 1987

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Antimony (CAS 7440-36-0)
Arsenic (CAS 7440-38-2)
Lead (CAS 7439-92-1)
Oil (CAS 64742-52-5)
Sulfuric acid (CAS 7664-93-9)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 13-June-2022

Revision date -

Version # 01

NFPA ratings

Disclaimer Trojan Battery Company, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.