SAFETY DATA SHEET



1. Identification

Product identifier Valve Regulated Lead Acid Battery

Other means of identification

Synonyms VRLA

Recommended use Industrial/commercial electric storage battery.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Trojan Battery Company, LLC Company name

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 eve damage/eye irritation Category 1 Carcinogenicity Category 2 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

Category 1 (blood, central nervous system, kidneys)

exposure

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment,

long-term hazard

Category 1

Category 1

OSHA defined hazards

Not classified.

Label elements



Signal word

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. Suspected of causing 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. The product is an article and therefore the classification requirements do not apply.

Valve Regulated Lead Acid Battery SDS US 1 / 10 Version #: 01 Revision date: -Issue date: 13-June-2022

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.

If exposed or concerned: Get medical advice/attention. If swallowed: Rinse mouth. Do NOT Response

> 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.

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive **Storage**

resistant container with a resistant inner liner.

Dispose of contents/container in accordance with local/regional/national/international regulations. **Disposal**

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	70
Sulfuric acid	7664-93-9	20
Tin	7440-31-5	0.35
Calcium	7440-70-2	0.05

Case and Separators

Chemical name	Common name and synonyms	CAS number	%
Polypropylene		9003-07-0	6.1
Silica		112926-00-8	1.5
Natural rubber		9006-04-6	1
Oil		64742-52-5	1

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

Exposure to contents of an open or damaged battery: Move to fresh air. Oxygen or artificial Inhalation

respiration if needed. Get medical attention immediately.

Exposure to contents of an open or damaged battery: Take off immediately all contaminated Skin contact

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.

Exposure to contents of an open or damaged battery: Immediately flush eyes with plenty of water Eye contact

for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a

physician or poison control center immediately.

Exposure to contents of an open or damaged battery: Call a physician or poison control center Ingestion

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.

Valve Regulated Lead Acid Battery SDS US 2/10 Issue date: 13-June-2022

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 Unsuitable extinguishing media

Foam, Special powder against metal fires. Dry sand.

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

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	Туре	Value		
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3		
US. OSHA Table Z-1 Limits for A	Air Contaminants (29 CFR 1910.	1000)		
Components	Туре	Value		
Sulfuric acid (CAS 7664-93-9)	PEL	1 mg/m3		
Case and Separators	Туре	Value	Form	
Oil (CAS 64742-52-5)	PEL	5 mg/m3	Mist.	

962343 Version #: 01 Revision date: -Issue date: 13-June-2022

US, OSHA Table 7-	1 Limite for Ai	r Contaminante	/20 CED	1010 1000\

Case and Separators	Туре	Value	Form
		2000 mg/m3	
		500 ppm	
US. OSHA Table Z-3 (29 CFR 1910	0.1000)		
Case and Separators	Туре	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 Value	es		
Components	Туре	Value	Form
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	Туре	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 Che	mical Hazards		
Components	Туре	Value	
Lead (CAS 7439-92-1)	TWA	0.05 mg/m3	
Sulfuric acid (CAS 7664-93-9)	TWA	1 mg/m3	
Case and Separators	Туре	Value	
Silica (CAS 112926-00-8)	TWA	6 mg/m3	

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
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

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.

None under normal conditions. Leak from a damaged or opened battery: Wear suitable coveralls Other

to prevent exposure to the skin.

SDS US 4/10 962343 Version #: 01 Revision date: -Issue date: 13-June-2022

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

Solid. Physical state Battery. **Form**

Color No data available.

Odor Odorless. If leaking: sharp, penetrating, pungent odor for internal components.

Odor threshold Not applicable unless individual components exposed.

рH 1 - 2 (Sulfuric acid/battery electrolyte)

Not applicable unless individual components exposed. Melting point/freezing point 410 - 473 °F (210 - 245 °C) (Sulfuric acid/battery electrolyte) Initial boiling point and boiling

range

Not applicable unless individual components exposed. Flash point **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. Not applicable unless individual components exposed. Explosive limit - upper (%)

Vapor pressure 10 mmHg (Sulfuric acid/battery electrolyte) > 1 (Air=1) (Sulfuric acid/battery electrolyte) Vapor density

Relative density 1.215 - 1.32 (Water=1) (Sulfuric acid/battery electrolyte)

Solubility(ies)

Solubility (water) 100 % (Sulfuric acid/battery electrolyte)

Partition coefficient Not applicable unless individual components exposed.

(n-octanol/water)

Auto-ignition temperature Not applicable unless individual components exposed. Not applicable unless individual components exposed. **Decomposition temperature Viscosity** Not applicable unless individual components exposed.

Other information

1.215 - 1.32 g/cm³ (Sulfuric acid/battery electrolyte) Density

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

Exposure to contents of an open or damaged battery: May be corrosive to metals. Reacts with Reactivity

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.

Strong oxidizing agents. Strong reducing agents. Combustibles. Organic material. Metals. Water. Incompatible materials

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

5/10

metal oxides.

Valve Regulated Lead Acid Battery SDS US 962343 Version #: 01 Revision date: -Issue date: 13-June-2022

11. Toxicological information

Information on likely routes of exposure

Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Inhalation

Exposure to contents of an open or damaged battery: May cause respiratory irritation.

Under normal conditions of intended use, this material does not pose a skin hazard. Exposure to Skin contact

contents of an open or damaged battery: Causes skin burns.

Eve 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. May cause respiratory irritation. Coughing. Prolonged

exposure may cause chronic effects.

Information on toxicological effects

Not expected to be acutely toxic. Acute toxicity

Components **Species Test Results**

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

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

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

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 Dermal sensitization

(CAS 9006-04-6)

Respiratory sensitization

Respiratory sensitization Not classified. Skin sensitization Not classified.

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

mutagenic or genotoxic.

Valve Regulated Lead Acid Battery SDS US 6/10 962343 Version #: 01 Revision date: -Issue date: 13-June-2022

Carcinogenicity Exposure to contents of an open or damaged battery: Suspected of causing cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

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 Lead (CAS 7439-92-1)

Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

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.

Exposure to contents of an open or damaged battery: Causes damage to organs through **Chronic effects**

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) $0.15 \, \text{mg/l}$ Fish NOEC Brook trout (Salvelinus fontinalis) 0.13 ma/l

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

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.

Dispose in accordance with all applicable regulations. Local disposal regulations

D002: Waste Corrosive material [pH <=2 or =>12.5, or corrosive to steel] Hazardous waste code

D008: Waste Lead

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Valve Regulated Lead Acid Battery SDS US 7 / 10 962343 Version #: 01 Revision date: -Issue date: 13-June-2022

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 UN2800

UN proper shipping name Batteries, wet, non-spillable, 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 159a Packaging non bulk 159 Packaging bulk 159

IATA

UN number UN2800

UN proper shipping name Batteries, wet, non-spillable electric storage

Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Packing group Environmental hazards Yes
ERG Code 8L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number UN2800

UN proper shipping name BATTERIES, WET, NON-SPILLABLE electric storage

Transport hazard class(es)

Class 8
Subsidiary risk Packing group Environmental hazards

Marine pollutant Yes S F-A, S-B

EmS F-A, S-I

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

BC Code

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)

Not applicable.

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

CERCLA Hazardous Substance List (40 CFR 302.4)

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)

Lead (CAS 7439-92-1)

Reproductive toxicity

Central nervous system

Valve Regulated Lead Acid Battery

962343 Version #: 01 Revision date: - Issue date: 13-June-2022

8 / 10

Kidnev Blood 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	<u> </u>	·	

SARA 311/312 Hazardous

Yes

chemical

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.
Lead	7439-92-1	70
Sulfuric acid	7664-93-9	20

Other federal regulations

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

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

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

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

Lead (CAS 7439-92-1) Sulfuric acid (CAS 7664-93-9)

US. Rhode Island RTK

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.

Valve Regulated Lead Acid Battery SDS US 9/10 962343 Version #: 01 Revision date: - Issue date: 13-June-2022

California Proposition 65 - CRT: Listed date/Carcinogenic substance

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

Inventory name

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))

Lead (CAS 7439-92-1) Oil (CAS 64742-52-5) Sulfuric acid (CAS 7664-93-9)

International Inventories

Country(s) or region

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)
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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

Issue date 13-June-2022

Revision date - 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.

Valve Regulated Lead Acid Battery SDS US

On inventory (yes/no)*

Yes

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).