

Safety Data Sheet

1. IDENTIFICATION

Product Name: Lead Acid Battery	Product Use: Vehicle Electrical System
Synonyms: SLI Battery	Manufacturer/Supplier: Clarios
	Address: Florist Tower
	5757 N. Green Bay Avenue
	Glendale, WI 53209-4408 US
General Information Number: (800)-333-2222 ext. 2267	Emergency number: CHEMTREC: 800-424-9300 (For US &
Contact Person: Industrial Hygiene & Safety Department	Canada use only)

NOTE: The Clarios sealed cell/battery is considered an article as defined by 29 CFR 1910.1200 (OSHA Hazard Communication Standard). The information contained in this SDS is supplied at the customer's request for information only.

2. HAZARD(S) IDENTIFICATION

Health		Environmental	Physical
Acute Toxicity (Oral, dermal, inhalation)	Category 4	Aquatic Chronic 1 Aquatic Acute 1	
Skin corrosion/irritation	Category 1A		
Eye Damage	Category 1		
Reproductive	Category 1A		
Carcinogenicity (lead)	Category 1B		
Carcinogenicity (acid mist)	Category 1A		
Specific target organ toxicity (repeated exposure)	Category 2		

Label Elements:

Health	Environmental	Physical

Hazard Statements DANGER!

Causes severe skin burns and eye damage. Causes serious eye damage.

Harmful if swallowed, harmful if inhaled, harmful in contact with skin.

May damage fertility or the unborn child if ingested or inhaled.

May cause cancer if ingested or inhaled.

Causes damage to central nervous system, blood, and kidneys through prolonged or repeated exposure.

Precautionary Statements

Wash thoroughly after handling.

Do not eat, drink, or smoke when using this product.

Wear protective gloves/protective clothing, eye protection/face protection.

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Causes skin irritation, serious eye damage.

Contact with internal components may cause irritation or severe burns. Avoid contact with internal acid.

Irritating to eyes, respiratory system, and skin.

PS-HTR-ST-43-E_PS-HTR-ST-43-E_Lead Acid Battery SDS Standard

SDS US

Version #:13 Issue Date: 04/01/2015 Revision Date: 12/13/2023

May form explosive air/gas mixture during	
charging.	

3. COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENTS (Chemical/Common Names):	CAS No.:	% by Wt:
Lead and Lead Compounds	7439-92-1	40 – 72%
Sulfuric Acid	7664-93-9	20 – 50%
Case Material – Polypropylene	9010-79-1	3 – 9%
Separator Material – Polyethylene	7446-14-2	1 – 3%

Composition Comments All concentrations are in percent by weight.

4. FIRST AID MEASURES

Note: Under normal conditions of battery use, internal components will not present a health hazard. The following information is provided for battery electrolyte (acid) and lead for exposures that may occur during battery production or container breakage or under extreme heat conditions such as fire.

Inhalation Sulfuric Acid: Remove to fresh air immediately. If not breathing, give artificial respiration. If breathing is

difficult, give oxygen. Consult a physician.

Lead: Remove from exposure, gargle, wash nose and lips; consult physician.

Skin contact Sulfuric Acid: Flush with large amounts of water for at least 15 minutes; remove contaminated clothing

completely, including shoes. If symptoms persist, seek medical attention. Wash contaminated clothing

before reuse. Discard contaminated shoes. Lead: Wash immediately with soap and water.

Eye contact Sulfuric Acid and Lead: Flush immediately with large amounts of water for at least 15 minutes while lifting

lids; Seek immediate medical attention if eyes have been exposed directly to acid.

Ingestion Sulfuric Acid: Give large quantities of water; Do NOT induce vomiting or aspiration into the lungs may

occur and can cause permanent injury or death; consult physician.

Lead: Consult physician immediately.

5. FIRE FIGHTING MEASURES

Flash Point Not applicable unless individual components exposed.

Auto ignition No data available.

Temperature

Flammable Limits LEL = 4.1% (Hydrogen Gas in air); UEL = 74.2%

Extinguishing

CO2; foam; dry chemical. Do not use carbon dioxide directly on cells. Avoid breathing vapors/fumes. Use

appropriate media for surrounding fire.

Special Fire Fighting

Procedures

Media

Use positive pressure, self-contained breathing apparatus. Beware of acid splatter during water application and wear acid-resistant clothing, gloves, face and eye protection. If batteries are on charge,

shut off power to the charging equipment, but note that strings of series connected batteries may still ${\sf v}$

pose risk of electric shock even when charging equipment is shut down.

Unusual Fire and Explosion Hazard Highly flammable hydrogen gas is generated during charging and operation of batteries. If ignited by burning cigarette, naked flame or spark, may cause battery explosion with dispersion of casing fragments and corrosive liquid electrolyte. Carefully follow manufacturer's instructions for installation and service. Keep away all sources of gas ignition and do not allow metallic articles to simultaneously contact the negative and positive terminals of a battery. Follow manufacturer's instructions for installation and service.

6: ACCIDENTAL RELEASE MEASURES

Protective Measures to be Taken if Material is Released or Spilled Stop flow of material, contain/absorb small spills with dry sand, earth, and vermiculite. Do not use combustible materials. If possible, carefully neutralize spilled electrolyte with soda ash, sodium

bicarbonate, lime, etc. Wear acid-resistant clothing, boots, gloves, and face shield. Do not allow discharge of un-neutralized acid to sewer. Acid must be managed in accordance with approved local, state, and

federal requirements. Consult state environmental agency and/or federal EPA.

Waste Disposal Method Dispose of as a hazardous waste. Dispose of in accordance with applicable local, state and federal

regulations.

7. HANDLING AND STORAGE

Handling Unless involved in recycling operations, do not breach the casing or empty the contents of the battery.

Handle carefully and avoid tipping, which may allow electrolyte leakage. There may be increasing risk of electric shock from strings of connected batteries. Keep containers tightly closed when not in use. If battery case is broken, avoid contact with internal components. Keep vent caps on and cover terminals to prevent short circuits. Place cardboard between layers of stacked automotive batteries to avoid damage and short circuits. Keep away from combustible materials, organic chemicals, reducing substances,

metals, strong oxidizers and water. Use banding or stretch wrap to secure items for shipping.

Storage Store batteries under roof in cool, dry, well-ventilated areas separated from incompatible materials and

from activities that may create flames, spark, or heat. Store on smooth, impervious surfaces provided with measures for liquid containment in the event of electrolyte spills. Keep away from metallic objects that could bridge the terminals on a battery and create a dangerous short-circuit. Room ventilation is required for batteries utilized for standby power generation. Never recharge batteries in an unventilated, enclosed

space.

Charging: There is a possible risk of electric shock from charging equipment and from strings of series connected

batteries, whether or not being charged. Shut-off power to chargers whenever not in use and before detachment of any circuit connections. Batteries being charged will generate and release flammable hydrogen gas. Charging space should be ventilated. Keep battery vent caps in position. Prohibit smoking and avoid creation of flames and sparks nearby. Wear face and eye protection when near batteries being

charged.

Other Follow Manufacturers Recommendations regarding maximum recommended currents and operating

temperature range. Do not overcharge beyond the recommended upper charging voltage limit. Applying pressure or deforming the battery may lead to disassembly followed by eye, skin and throat irritation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

US OSHA Specifically Regulated Substances (29 CFR 1910.1025)

Ingredient	CAS Number	Туре	Value
Lead and Lead Compounds	7439-92-1	TWA	0.05 mg/m ³

US OSHA Table Z-1 Limits for Air Contaminants (29CFR 1910.1025)

Ingredient	CAS Number	Туре	Value
Sulfuric Acid	7664-93-9	PEL	1 mg/m³

US ACGIH Threshold Limit Values

Ingredient	CAS Number	Type	Value	Form
Lead and Lead Compounds	7439-92-1	TWA	0.05 mg/m ³	
Sulfuric Acid	7664-93-9	TWA	0.2 mg/m ³	Thoracic Fractions

US NIOSH: Pocket Guide to Chemical Hazards

Ingredient	CAS Number	Type	Value
Lead	7439-92-1	TWA	0.05 mg/m ³
Lead Oxide	1309-60-0	TWA	0.05 mg/m ³
Sulfuric Acid	7664-93-9	TWA	1 mg/m³

International Exposure Limits (mg/m³)

Chemical & Common Name	Quebec PEV	Ontario OEL	EU OEL
Lead and Lead Compounds (inorganic)	0.05	0.05	0.15 (a)
*Electrolyte (H ₂ SO ₄)	1	0.2	0.05 (b)

^{*(}a) As inhalable aerosol (b) Thoracic fraction

Biological limit values

ACGIH Biological Exposure Indices

Ingredient	Value	Determinant	Specimen	Sampling Time
Lead	300 μg/l	Lead	Blood	*
Lead Oxide	300 μg/l	Lead	Blood	*
Lead Sulfate	300 μg/l	Lead	Blood	*

^{* -} For Sampling details please see the source document.

Engineering Controls (Ventilation):

Store and handle in well-ventilated area. If mechanical ventilation is used, components must be acid-resistant. Handle batteries cautiously, do not tip to avoid spills. Make certain vent caps are on securely. If battery case is damaged, avoid bodily contact with internal components. Wear protective clothing, eye and face protection, when filling, charging, or handling batteries. Do not allow metallic materials to simultaneously contact both the positive and negative terminals of the batteries. Charge batteries in areas with adequate ventilation. General dilution ventilation is acceptable.

Respiratory Protection (NIOSH/MSHA approved):

NONE REQUIRED FOR NORMAL HANDLING OF THE FINISHED PRODUCT.

When concentrations of sulfuric acid mist are known to exceed PEL, use NIOSH or MSHA-approved respiratory protection.

Skin Protection:

NONE REQUIRED FOR NORMAL HANDLING OF THE FINISHED PRODUCT.

If battery case is damaged, use rubber or plastic acid-resistant gloves with elbow-length gauntlet, acid-resistant apron, clothing and boots.

Eye Protection:

NONE REQUIRED FOR NORMAL HANDLING OF THE FINISHED PRODUCT.

If necessary to handle damage product where exposure to the organic electrolyte is a possibility, chemical splash goggles and a face shield are recommended.

Other Protection:

In areas where water and sulfuric acid solutions are handled in concentrations greater than 1%, emergency eyewash stations and showers should be provided, with unlimited water supply. Chemically impervious apron and face shield recommended when adding water or electrolyte to batteries. Wash Hands after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor Manufactured article; no apparent odor. Electrolyte is a clear liquid with a sharp, penetrating,

pungent odor.

Odor Threshold Not applicable. pH Not applicable

Boiling Point Not applicable unless individual components exposed.

Battery Electrolyte (Acid) - 230 - 233.6 °F (110 - 112 °C)

Lead - 3191 °F (1755 °C)

Melting Point Lead - 621.32 °F (327.4 °C)

Specific Gravity 1.215 to 1.350

 $(H_2O=1)$

Flash Point 498.2 °F (259.0 °C) Hydrogen

Evaporation Rate < 1

(Butyl Acetate = 1)

Vapor Pressure Battery Electrolyte (Acid) 11.7

(mm Hg @ 20 ° C)

Flammability

Upper/lower flammability

or explosive limits

Hydrogen Flammability Limit Lower- 4.1 %

Flammability Limit Upper - 74.2 %

Vapor Pressure Not applicable.

Vapor Density 3.4 (Air = 1) Battery Electrolyte (Acid) **Relative Density** 1.21 - 1.3 Battery Electrolyte (Acid) Solubility

Lead and Lead dioxide are not soluble.

100 % Battery Electrolyte (Acid). Not applicable unless individual components exposed.

% Volatile by Weight Partition coefficient Not applicable

(n-octanol/water)

Auto-ignition temperature 1076 °F (580 °C) Hydrogen.

Decomposition temperature

Not applicable

Not applicable Viscosity

10. STABILITY AND REACTIVITY

Stability The sealed battery is considered stable.

Conditions to Avoid

Sparks and other sources of ignition; high temperature; over charging.

Incompatibility (materials to avoid)

Electrolyte: Contact with combustibles and organic materials may cause fire and explosion. Also reacts violently with strong reducing agents, metals, sulfur trioxide gas, strong oxidizers, and water. Contact with metals may produce toxic sulfur dioxide fumes and may release flammable

hydrogen gas.

Lead compounds: Avoid contact with strong acids, bases, halides, halogenates, potassium nitrate,

permanganate, peroxides, nascent hydrogen, and reducing agents.

Arsenic compounds: strong oxidizers; bromine azide. NOTE: hydrogen gas can react with inorganic

arsenic to form the highly toxic gas – arsine

Hazardous Decomposition

Products

Electrolyte: Sulfur trioxide, carbon monoxide, sulfuric acid mist, sulfur dioxide, hydrogen sulfide.

Lead compounds: Temperatures above the melting point are likely to produce toxic metal fume, vapor, or dust; contact with strong acid or base or presence of nascent hydrogen may generate

highly toxic arsine gas.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

NOTE: Under normal conditions of use, this product does not present a health hazard. The following information is provided for organic electrolyte and lead exposure that may occur due to container breakage or under extreme conditions such as fire. Organic electrolyte – reacts with moisture/water to produce hydrofluoric acid in trace quantities. Hydrofluoric acid is extremely corrosive and toxic. In severe exposures it acts as a systemic poison and causes severe burns. The reaction may be delayed. Any contact with this material, even minor, requires immediate medical attention.

ROUTES AND METHODS OF ENTRY

Inhalation EXPOSURE IS NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE.

> Sulfuric Acid: Breathing of sulfuric acid vapors or mists may cause severe respiratory irritation. Lead Compounds: Inhalation of lead dust or fumes may cause irritation of upper respiratory tract

Skin Contact EXPOSURE IS NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE.

> Sulfuric Acid: Severe irritation, burns and ulceration. Lead Compounds: Not absorbed through the skin.

Skin Absorption EXPOSURE IS NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE. In the event of overcharging or damage to the unit, exposure to organic electrolyte solution/mist is

possible. Extreme exposures to the organic electrolyte can be absorbed through the skin.

EXPOSURE IS NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE.

Sulfuric Acid: Severe irritation, burns, cornea damage, and blindness.

Lead Compounds: May cause eye irritation.

Ingestion EXPOSURE IS NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE.

Sulfuric Acid: May cause severe irritation of mouth, throat, esophagus and stomach.

Lead Compounds: Acute ingestion may cause abdominal pain, nausea, vomiting, diarrhea and severe cramping. This may lead rapidly to systemic toxicity and must be treated by a physician.

SIGNS AND SYMPTONS OF OVEREXPOSURE

Acute Effects EXPOSURE IS NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE.

Sulfuric Acid: Severe skin irritation, damage to cornea, upper respiratory irritation. Lead Compounds: Symptoms of toxicity include headache, fatigue, abdominal pain, loss of

appetite, muscular aches and weakness, sleep disturbances and irritability

Chronic Effects EXPOSURE IS NOT EXPECTED FOR PRODUCT UNDER NORMAL CONDITIONS OF USE.

Sulfuric Acid: Possible erosion of tooth enamel, inflammation of nose, throat & bronchial tubes. Lead Compounds: Anemia; neuropathy, particularly of the motor nerves, with wrist drop; kidney damage; reproductive changes in males and females. Repeated exposure to lead and lead compounds in the workplace may result in nervous system toxicity. Some toxicologists report abnormal conduction velocities in persons with blood lead levels of 50 μ g/100 ml or higher. Heavy lead exposure may result in central nervous system damage, encephalopathy and damage to the blood-forming (hematopoietic) tissues.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

Overexposure to sulfuric acid mist may cause lung damage and aggravate pulmonary conditions. Contact of sulfuric acid with skin may aggravate diseases such as eczema and contact dermatitis. Lead and its compounds can aggravate some forms of kidney, liver and neurologic diseases.

ADDITIONAL HEALTH DATA

All heavy metals, including the hazardous ingredients in this product, are taken into the body primarily by inhalation and ingestion. Most inhalation problems can be avoided by adequate precautions such as ventilation and respiratory protection covered in Section 8. Follow good personal hygiene to avoid inhalation and ingestion: wash hands, face, neck and arms thoroughly before eating, smoking or leaving the work site. Keep contaminated clothing out of non-contaminated areas, or wear cover clothing when in such areas. Restrict the use and presence of food, tobacco and cosmetics to non-contaminated areas. Work clothes and work equipment used in contaminated areas must remain in designated areas and never taken home or laundered with personal non-contaminated clothing. This product is intended for industrial use only and should be isolated from children and their environment.

The 19th Amendment to EC Directive 67/548/EEC classified lead compounds, but not lead in metal form, as possibly toxic to reproduction. Risk phrase 61: May cause harm to the unborn child, applies to lead compounds, especially soluble forms.

Toxicological Data

Constituents	Species	Test Results
Sulfuric Acid (CAS 7664-93-9)		
Acute		
Oral		
LD50	Rat	2140 mg/kg

CARCINOGENICITY

Sulfuric Acid: The International Agency for Research on Cancer (IARC) has classified "strong inorganic acid mist containing sulfuric acid" as a Category I carcinogen, a substance that is carcinogenic to humans. This classification does not apply to liquid forms of sulfuric acid or sulfuric acid solutions contained within a battery. Inorganic acid mist (sulfuric acid mist) is not generated under normal use of this product. Misuse of the product, such as overcharging, may result in the generation of sulfuric acid mist.

Lead Compounds: Lead is listed as a Group 2A- carcinogen, likely in animals at extreme doses. Per the guidance found in OSHA 29 CFR 1910.1200 Appendix F, this is approximately equivalent to GHS Category 1A. Proof of carcinogenicity in humans is lacking at present.

IARC Monographs. Overall Evaluation of Carcinogenicity

Lead (CAS 7439-92-1)2A Probably carcinogenic to humans.Lead oxide (CAS 1309-60-0)2A Probably carcinogenic to humans.Lead sulfate (CAS 7446-14-2)2A Probably carcinogenic to humans.

NTP Report on Carcinogens

Lead oxide (CAS 1309-60-0) Lead sulfate (CAS 7446-14-2) Reasonably Anticipated to be a Human Carcinogen. Reasonably Anticipated to be a Human Carcinogen.

OSHA Specifically Regulated Substances (29 CFR 1910.1025)

Not listed.

toxicity -

Reproductive toxicity May damage fertility or the unborn child.

Specific target organ

toxicity -

No data available.

single exposure

Specific target organ

Lead: May cause damage to organs (blood, central nervous system) through prolonged or

repeated exposure.

repeated exposure

Aspiration hazard Not classified.

12. ECOLOGICAL INFORMATION

Environmental Fate Lead is very persistent in soil and sediments. No data on environmental degradation. Mobility of

metallic lead between ecological compartments is slow. Bioaccumulation of lead occurs in aquatic and terrestrial animals and plants but little bioaccumulation occurs through the food chain. Most

studies include lead compounds and not elemental lead

Environmental toxicity

Sulfuric Acid

Aquatic Toxicity: 24-hr LC50, freshwater fish (Brachydanio rerio): 82 mg/L

96 hr- LOEC, freshwater fish (Cyprinus carpio): 22 mg/L

Lead 48 hr LC50 (modeled for aquatic invertebrates): <1 mg/L, based on lead bullion

Additional Information No known effects on stratospheric ozone depletion

Volatile organic compounds: 0% (by Volume)

Water Endangering Class (WGK): NA

13. DISPOSAL CONSIDERATIONS

Waste disposal method Material should be recycled if possible. Lead-acid batteries are completely recyclable. Dispose

waste and residues in accordance with applicable federal, state, and local regulations.

Hazardous waste code D002: Corrosivity; D008: Lead

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or packaging may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

Note: Transportation requirements do not apply once the battery pack has been installed in a vehicle as part of the vehicle's functional components.

United States DOT:

DOT rules specified in 49 CFR 173.159 regulate the transport of wet spillable batteries.

49 CFR 173.159 (e) specifies that when transported by highway or rail, electric storage batteries containing electrolyte or corrosive battery fluid are not subject to any other requirements of this subchapter, if all of the following are met:

- (1) No other hazardous materials may be transported in the same vehicle;
- (2) The batteries must be loaded or braced so as to prevent damage and short circuits in transit;

- (3) Any other material loaded in the same vehicle must be blocked, braced, or otherwise secured to prevent contact with or damage to the batteries; and
- (4) The transport vehicle may not carry material shipped by any person other than the shipper of the batteries.

If any of these requirements are not met, the batteries must be shipped as hazardous materials

GROUND - US-DOT/CAN-TDG/EU-ADR/APEC-ADR:

Proper Shipping name Batteries, Wet, Filled with Acid

UN number UN2794
Hazard classification 8
Packing group N/A
Labels Corrosive

AIRCRAFT - ICAO-IATA:

Proper Shipping name Batteries, Wet, Filled with Acid

Packing groupNoneHazardous class8

Label/Placard RequiredCorrosiveUN IdentificationUN2794Environmental HazardsNoERG Code8L

Reference IATA packing instructions 870 (IATA DRG Edition 54)

VESSEL – IMO-IMDG:

Proper Shipping name Batteries, Wet, Filled with Acid

Packing group N/A Hazardous class 8

Label/Placard Required Corrosive **UN Identification** UN2794

Environmental Hazards Marine Pollutant

EmS F-A, S-B

Reference IMDG packing instructions P801

15. REGULATORY INFORMATION

This product is an article pursuant to 29 CFR 1910.1200 and as such is not subjected to the OSHA Hazard Communication Standard.

TSCA

TSCA Section 8b - Inventory Status:

Inventory Status: All chemicals comprising this product are either exempt or listed on the TSCA Inventory.

TSCA Section 12b (40 CFR Part 707.60(b))

No notice of export will be required for articles, except PCB articles, unless the Agency so requires in the context of individual section 5, 6, or 7 actions.

TSCA Section 13 (40 CFR Part 707.20)

No import certification required (EPA 305-B-99-001, June 1999, Introduction to the Chemical Import Requirements of the Toxic Substances Control Act, Section IV.A)

OSHA Specifically Regulated Substances (29 CFR 1910.1025)

Lead (CAS 7439-92-1) Reproductive toxicity

Central nervous system

Kidney Blood

Acute toxicity

Lead Oxide (CAS 1309-60-0) Reproductive toxicity

Central nervous system

Kidney Blood

Acute toxicity

Lead Sulfate (CAS 7446-14-2) Reproductive toxicity

Central nervous system

Kidnev

EPA SARA Title III

Section 302 EPCRA Extremely Hazardous Substances (EHS):

Sulfuric acid is a listed "Extremely Hazardous Substance" under EPCRA, with a Threshold Planning Quantity (TPQ) of 1,000 lbs. EPCRA Section 302 notification is required if 500 lbs. or more of sulfuric acid is present at one site (40 CFR 370.10). For more information consult 40 CFR Part 355.

Section 304 CERCLA Hazardous Substances:

Reportable Quantity (RQ) for spilled 100% sulfuric acid under CERCLA (Superfund) and EPCRA (Emergency Planning and Community Right to Know Act) is 1,000 lbs. State and local reportable quantities for spilled sulfuric acid may vary.

Section 311/312 Hazard Categorization:

EPCRA Section 312 Tier Two reporting is required for non-automotive batteries if sulfuric acid is present in quantities of 500 lbs. or more and/or if lead is present in quantities of 10,000 lbs. or more. For more information consult 40 CFR 370.10 and 40 CFR 370.40

Section 313 EPCRA Toxic Substances:

40 cfr section 372.38 (b) states: If a toxic chemical is present in an article at a covered facility, a person is not required to consider the quantity of the toxic chemical present in such article when determining whether an applicable threshold has been met under § 372.25, § 372.27, or § 372.28 or determining the amount of release to be reported under § 372.30. This exemption applies whether the person received the article from another person or the person produced the article. However, this exemption applies only to the quantity of the toxic chemical present in the article.

Supplier Notification:

This product contains toxic chemicals that may be reportable under EPCRA Section 313 Toxic Chemical Release Inventory (Form R) requirements. For a manufacturing facility under SIC codes 20 through 39, the following information is provided to enable you to complete the required reports:

RCRA

Spent Lead Acid Batteries are subject to streamlined handling requirements when managed in compliance with 40 CFR section 266.80 or 40 CFR part 273. Waste sulfuric acid is a characteristic hazardous waste; EPA hazardous waste number D002 (corrosivity) and D008 (lead).

Other federal regulations

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

Lead (CAS 7439-92-1)

Lead Oxide (CAS 1309-60-0)

Lead Sulfate (CAS 7446-14-2)

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

Lead Sulfate (CAS 7446-14-2)

Safe Drinking Water Act (SDWA)

Not regulated

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

iemicai 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)

Lead Oxide (CAS 1309-60-0)

Lead Sulfate (CAS 7446-14-2)

US New Jersey Worker and Community Right-to-know Act

Lead (CAS 7439-92-1)

Lead Oxide (CAS 1309-60-0)

Lead Sulfate (CAS 7446-14-2)

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) Lead Oxide (CAS 1309-60-0) Lead Sulfate (CAS 7446-14-2) Sulfuric acid (CAS 7664-93-9)

US. California Proposition 65

WARNING: This product contains chemicals known to the State of California to cause cancer.

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and reproductive harm. Wash hands after handling.

*Battery companies not party to the 1999 consent judgment with Mateel Environmental Justice Foundation should include a Proposition 65 Warning that complies with the current version of Proposition 65.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Lead (CAS 7439-92-1) Lead Oxide (CAS 1309-60-0) Lead Sulfate (CAS 7446-14-2) Sulfuric acid (CAS 7664-93-9)

International Inventories

Country(s) or Region Inventory Name On inventory (yes/no)*
United States & Puerto Rico Toxic Substances Control Act (TSCA) Yes

Inventory

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).

CANADIAN ENVIRONMENTAL PROTECTION ACT: These products are manufactured articles and are exempt from regulation.

CANADIAN WHMIS CLASSIFICATION: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

16. OTHER INFORMATION

Issue Date: 04/01/2015

Further information: NFPA Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3=Serious 4 = Severe

NFPA ratings



Disclaimer

Clarios 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.

^{*} A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).