SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
US OSHA HCS 2024 and Canada Hazardous Products Act (HPA) and
Hazardous Products Regulation (HPR), as amended

Issuing Date 08-Aug-2025 **Revision date** 08-Aug-2025 **Revision Number** 1

1. Identification

Product identifier

Product Name Valve Regulated Lead-Acid (VRLA)

Other means of identification

Product Code(s) GXT5TAA Series, PSI5TAA Series

UN number or ID number UN2800

Synonyms VRLA

Recommended use of the chemical and restrictions on use

Recommended use Uninterruptible Power Supply (UPS)

Restrictions on use None

Details of the supplier of the safety data sheet

Manufacturer Address
Vertiv Group Corporation
505 N Cleveland Ave
Westerville, OH 43082

Emergency telephone number

Emergency telephone 1-614-888-0246

2. Hazard(s) identification

Classification of the substance or mixture

As supplied, this product is an article. This product contains a battery. No exposure to hazardous chemicals is expected to occur during intended product use. Misuse of the product may result in exposure to hazardous chemicals. The information below relates to the mixture of components contained within the battery.

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A
Reproductive toxicity	Category 1A
Effects on or via lactation	Yes
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

Danger

Hazard statements
Harmful if swallowed.

Toxic if inhaled.
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 damage to organs through prolonged or repeated exposure.
Effects on or via lactation.

Precautionary Statements - Prevention
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Wear protective gloves, protective clothing, eye protection and face protection.
Do not breathe dust.
Avoid contact during pregnancy and while nursing.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention.
Specific treatment (see supplemental first aid instructions on this label).
Eyes
Immediately call a POISON CENTER or doctor.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Wash contaminated clothing before reuse.
Inhalation
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Immediately call a POISON CENTER or doctor.
Ingestion
IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Precautionary Statements - Storage
Store locked up.
Store in a well-ventilated place. Keep container tightly closed.
Precautionary Statements - Disposal
Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Unknown acute toxicity
39.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
50.3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Hazards classified under paragraph (d)(1)(ii) of 1910.1200
No information available.

Other information
Very toxic to aquatic life with long lasting effects.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Synonyms VRLA

Chemical name	CAS No.	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Lead peroxide	1309-60-0	35-45	-	-
Lead	7439-92-1	30-40	-	-
Sulfuric acid	7664-93-9	10-20	-	-
Glass, oxide	65997-17-3	2-5	-	-
Tin	7440-31-5	<2	-	-
Barium	7440-39-3	<1.5	-	-

4. First-aid measures

Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required. IF exposed or concerned: Get medical advice/attention.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Do not breathe dust.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical attention.

Ingestion Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

Symptoms Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Effects of Exposure May cause cancer. May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility. May cause damage to organs through prolonged or repeated exposure.

Indication of any immediate medical attention and special treatment needed

Note to physicians Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. Fire-fighting measures

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not breathe dust.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. Handling and storage

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes. Do not breathe dust. Avoid generation of dust.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Do not breathe dust. Take off contaminated clothing and wash before reuse.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Protect from moisture. Store locked up. Store away from other materials.

8. Exposure controls/personal protection

Control Parameters

Exposure Limits

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Lead peroxide 1309-60-0	TWA: 0.05 mg/m³ Pb	TWA: 50 µg/m³ Pb	TWA: 0.050 mg/m³; Pb IDLH: 100 mg/m³ Pb
Lead 7439-92-1	TWA: 0.05 mg/m³	TWA: 50 µg/m³	TWA: 0.050 mg/m³; IDLH: 100 mg/m³
Sulfuric acid 7664-93-9	TWA: 0.2 mg/m³ thoracic particulate matter	TWA: 1 mg/m³ (vacated) TWA: 1 mg/m³	TWA: 1 mg/m³; IDLH: 15 mg/m³
Glass, oxide 65997-17-3	TWA: 1 fiber/cm3 respirable fibers length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination TWA: 5 mg/m³ inhalable particulate matter	-	-
Tin 7440-31-5	TWA: 2 mg/m³ inhalable particulate matter	TWA: 2 mg/m³ Sn except oxides (vacated) TWA: 2 mg/m³	TWA: 2 mg/m³; IDLH: 100 mg/m³
Barium 7440-39-3	TWA: 0.5 mg/m³	(vacated) TWA: 0.5 mg/m³	-

Chemical name	Alberta	British Columbia	Ontario	Quebec
Lead peroxide 1309-60-0	TWA: 0.05 mg/m³;	TWA: 0.05 mg/m³; Adverse reproductive effect	TWA: 0.05 mg/m³;	TWAEV: 0.05 mg/m³;
Lead 7439-92-1	TWA: 0.05 mg/m³;	TWA: 0.05 mg/m³; Adverse reproductive effect	TWA: 0.05 mg/m³;	TWAEV: 0.05 mg/m³;
Sulfuric acid 7664-93-9	TWA: 1 mg/m³; STEL: 3 mg/m³;	TWA: 0.2 mg/m³; thoracic	TWA: 0.2 mg/m³; thoracic particulate matter	TWAEV: 0.2 mg/m³; STEV: 3 mg/m³;
Glass, oxide 65997-17-3	TWA: 5 mg/m³; total particulate TWA: 1 fibre/cm3;	TWA: 1 fibre/cm3; TWA: 5 mg/m³; inhalable	TWA: 1 fibre/cm3; respirable TWA: 5 mg/m³; inhalable fraction	TWAEV: 1 fibre/cm3; respirable
Tin 7440-31-5	TWA: 2 mg/m³;	TWA: 2 mg/m³; inhalable	TWA: 2 mg/m³;	TWAEV: 2 mg/m³; inhalable aerosol fraction
Barium 7440-39-3	TWA: 0.5 mg/m³;	TWA: 0.5 mg/m³;	TWA: 0.5 mg/m³;	-

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
Lead	TWA: 0.05 mg/m³;	TWA: 0.05 mg/m³;	TWA: 0.05 mg/m³;	TWA: 0.05 mg/m³;
Sulfuric acid	TWA: 0.2 mg/m³; thoracic particulate matter	TWA: 0.2 mg/m³; thoracic fraction	TWA: 0.2 mg/m³; thoracic particulate matter	TWA: 0.2 mg/m³; thoracic particulate matter
Tin	TWA: 2 mg/m³;	TWA: 2 mg/m³;	TWA: 2 mg/m³;	TWA: 2 mg/m³;

Chemical name	Manitoba	New Brunswick	Newfoundland and Labrador	Nova Scotia
	inhalable particulate matter		inhalable particulate matter	inhalable particulate matter
Barium	TWA: 0.5 mg/m³;	TWA: 0.5 mg/m³;	TWA: 0.5 mg/m³;	TWA: 0.5 mg/m³;

Chemical name	Nunavut	Prince Edward Island	Saskatchewan	Yukon
Lead	TWA: 0.05 mg/m³; STEL: 0.15 mg/m³; Designated substance	TWA: 0.05 mg/m³;	TWA: 0.05 mg/m³; STEL: 0.15 mg/m³; Designated Chemical Substance	TWA: 0.15 mg/m³; dust and fume STEL: 0.45 mg/m³; dust and fume
Sulfuric acid	TWA: 0.2 mg/m³; thoracic fraction STEL: 0.6 mg/m³; thoracic fraction Designated substance	TWA: 0.2 mg/m³; thoracic particulate matter	TWA: 0.2 mg/m³; strong acid mists only, thoracic fraction STEL: 0.6 mg/m³; strong acid mists only, thoracic fraction Designated Chemical Substance	TWA: 1 mg/m³; STEL: 1 mg/m³;
Glass, oxide	-	-	-	TWA: 30 mppcf; dust or fibrous TWA: 10 mg/m³; dust or fibrous
Tin	TWA: 2 mg/m³; STEL: 4 mg/m³;	TWA: 2 mg/m³; inhalable particulate matter	TWA: 2 mg/m³; STEL: 4 mg/m³;	-
Barium	TWA: 0.5 mg/m³; STEL: 1.5 mg/m³;	TWA: 0.5 mg/m³;	TWA: 0.5 mg/m³; STEL: 1.5 mg/m³;	-

Note See section 16 for terms and abbreviations.
Other information on limit values Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Biological occupational exposure limits

Chemical name	ACGIH
Lead peroxide 1309-60-0	200 µg/L - blood (Lead) - not critical
Lead 7439-92-1	200 µg/L - blood (Lead) - not critical

Appropriate engineering controls

Engineering controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection If contents are released:. Wear safety glasses with side shields (or goggles). Face protection shield. Tight sealing safety goggles.

Hand protection If contents are released:. Wear suitable gloves.

Skin and body protection If contents are released:. Wear suitable protective clothing. Chemical resistant apron.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Solid containing liquid
Physical state	Solid
Color	Varies
Odor (includes odor threshold)	Characteristic

Property	Values	Remarks • Method
Melting point / freezing point		No data available
Boiling point (or initial boiling point or boiling range)		No data available
Flammability		No data available
Flammability Limit in Air		
Upper flammability or explosive limits		No data available
Lower flammability or explosive limits		No data available
Flash point		No data available
Autoignition temperature		No data available
Decomposition temperature		No data available
SADT (°C)		No data available
pH		No data available
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Solubility		No data available
Water solubility		No data available
Partition coefficient n-octanol/water (log value)		No data available
Vapor pressure (includes evaporation rate)		No data available
Evaporation rate		No data available
Density and/or relative density		No data available
Bulk density		No data available
Liquid Density		No data available
Relative vapor density		No data available
Particle characteristics		
Particle Size		No data available
Particle Size Distribution		No data available

Other information

Molecular weight	No information available
VOC content	0.0%
Softening point	No information available

Information with regard to physical hazard classes

Explosives	
Explosive properties	No information available
Oxidizing properties	No information available

10. Stability and reactivity

Reactivity	None under normal use conditions.
Chemical stability	For the lead component: When oxygen is present, it will be eroded by pure water and the weak organic acid. At normal temperature, it will be eroded by fluorine or chlorine. For the sulfuric component: At first, vapor is generated by heating and generate sulfuric acid vapors if continue to heat. Rapid contact with water might generate a large amount of heat, and sometimes the acid is scattered. Dilute sulfuric acid, which is generated by diluting with

water, generates hydrogen gas by the corrosion of various metals and may cause flash explosion by mixing with air.

Possibility of hazardous reactions Lead component:
React violently with combustible materials and organic matter (sulfuric acid, hydrogen peroxide, phosphoric acid), and it may cause risk of fire.

Sulfuric acid component:
Reacts violently with bases and is corrosive to most common metals forming a flammable/explosive gas (hydrogen).

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

Incompatible materials Acids, Bases, Oxidizing agent.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. Toxic by inhalation.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in breathing.

Acute toxicity Toxic by inhalation. Harmful if swallowed.

Numerical measures of toxicity

The following ATE values have been calculated for the mixture:

ATEmix (oral)	588.10 mg/kg
ATEmix (dermal)	105,315.80 mg/kg
ATEmix (inhalation-dust/mist)	0.643 mg/l

Unknown acute toxicity

39.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
50.3 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sulfuric acid	= 2140 mg/kg (Rat)	-	= 0.375 mg/L (Rat) 4 h
Tin	= 700 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 4.75 mg/L (Rat) 4 h
Barium	= 132 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Causes severe skin burns and eye damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes burns.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Lead peroxide 1309-60-0	A3 - Confirmed animal carcinogen (with unknown relevance to humans)	Group 2A - Probably carcinogenic to humans	Reasonably anticipated to be a human carcinogen	Present
Lead 7439-92-1	A3 - Confirmed animal carcinogen (with unknown relevance to humans)	Group 2A - Probably carcinogenic to humans	Reasonably anticipated to be a human carcinogen	Present
Sulfuric acid 7664-93-9	A2 - Suspected human carcinogen	Group 1 - Carcinogenic to humans	Known human carcinogen	Present
Glass, oxide 65997-17-3	A4 - Not classifiable as a human carcinogen	Group 3 - Not classifiable as to carcinogenicity in humans	-	-
Barium 7440-39-3	A4 - Not classifiable as a human carcinogen	-	-	-

Reproductive toxicity Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. May cause harm to breast-fed children.

STOT - single exposure No information available.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No information available.

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Lead 7439-92-1	-	LC50: =0.44mg/L (96h, Cyprinus carpio) LC50: =1.17mg/L (96h, Oncorhynchus mykiss) LC50: =1.32mg/L (96h, Oncorhynchus mykiss)	-	EC50: =600µg/L (48h, water flea)
Sulfuric acid 7664-93-9	-	LC50: >500mg/L (96h, Brachydanio rerio)	-	-

Persistence and degradability No information available.

Bioaccumulation No information available.

Other adverse effects No information available.

13. Disposal considerations

Disposal methods

Waste from residues/unused products Dispose of in accordance with local regulations, Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

California waste information This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. Transport information

DOT In accordance with DOT

49 CFR 173.159a

Subject batteries are classified as Non-spillable and have been tested and meet the non-spillable criteria listed in CFR 49 173.159 (f) and 173.159a (d) (1)

UN number or ID number UN2800
Proper shipping name BATTERIES, WET, NON-SPILLABLE
Transport hazard class(es) 8
DOT Marine Pollutant Not applicable
Description UN2800, BATTERIES, WET, NON-SPILLABLE, 8

TDG
UN number or ID number UN2800
Proper shipping name Batteries, wet, non-spillable
Transport hazard class(es) 8
Description UN2800, Batteries, wet, non-spillable, 8

IATA
UN number or ID number UN2800
UN proper shipping name Batteries, wet, non-spillable

Transport hazard class(es)	8
Environmental hazards	No
Special Provisions	A48, A67, A164, A183
ERG Code	8L
Description	UN2800, Batteries, wet, non-spillable, 8

IMDG

UN number or ID number	UN2800
UN proper shipping name	Batteries, wet, non-spillable
Transport hazard class(es)	8
Marine pollutant indicator	Not applicable
Special Provisions	238
EmS-No.	F-A, S-B
Description	UN2800, Batteries, wet, non-spillable, 8

15. Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories
Contact supplier for inventory compliance status

US Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	SARA 313 - Threshold Values %
Sulfuric acid - 7664-93-9	1.0
Barium - 7440-39-3	1.0

SARA 311/312 Hazard Categories
Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Lead peroxide 1309-60-0	-	X	-	-
Lead 7439-92-1	-	X	X	-
Sulfuric acid 7664-93-9	1000 lb	-	-	X

CAA (Clean Air Act)
This product contains the following substances which are regulated pollutants to the Clean Air Act (CAA).

Chemical name	Hazardous air pollutants (HAPs)	Ozone-depleting substances (ODS)
Lead peroxide 1309-60-0	Present	-

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Lead 7439-92-1	10 lb / 4.54 kg (final RQ)	-
Sulfuric acid 7664-93-9	1000 lb / 454 kg (final RQ)	1000 lb
Barium 7440-39-3	1000 lb / 454 kg (final RQ)	-

US State Regulations

California Proposition 65
This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Lead peroxide - 1309-60-0	Carcinogen
Lead - 7439-92-1	Carcinogen Developmental Female Reproductive Male Reproductive
Sulfuric acid - 7664-93-9	Carcinogen
Lead Monoxide - 1317-36-8	Carcinogen
Antimony trioxide - 1309-64-4	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Lead peroxide 1309-60-0	X	X	X
Lead 7439-92-1	X	X	X
Sulfuric acid 7664-93-9	X	X	X
Tin 7440-31-5	X	X	X
Barium 7440-39-3	X	X	X
Calcium 7440-70-2	X	X	X
Lead Monoxide 1317-36-8	X	X	X
Antimony trioxide 1309-64-4	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA	**Health hazards** 3	**Flammability** 0	**Instability** 0	**Special hazards** -
HMIS	**Health hazards** 4 *	**Flammability** 0	**Physical hazards** 0	**Personal protection** X

Chronic Hazard Star Legend ** = Chronic Health Hazard*

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Europe)
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
AIIC	Australian Inventory of Industrial Chemicals
ATE	Acute Toxicity Estimate
ASTM	American Society for the Testing of Materials
bar	Biological Reference Values for Chemical Compounds in the Work Area
BAT	Biological tolerance values for occupational exposure
BEL	Biological exposure limits
bw	Body weight
Ceiling	Maximum limit value
CMR	Carcinogen, Mutagen or Reproductive Toxicant
DOT	Department of Transportation (United States)
DSL	Domestic Substances List (Canada)
EmS	Emergency Schedule
ENCS	Existing and New Chemical Substances (Japan)
EPA	U.S. Environmental Protection Agency
GHS	Globally Harmonized System
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO	International Civil Aviation Organization
IECSC	Inventory of Existing Chemical Substances in China
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Organization for Standardization
KECI	Korean Existing Chemicals Inventory
LC50	Lethal Concentration to 50% of a test population
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
n.o.s.	Not Otherwise Specified
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOELR	No Observable Effect Loading Rate
NTP	National Toxicology Program (United States)
NZIoC	New Zealand Inventory of Chemicals
OECD	Organization for Economic Cooperation and Development
OEL	Occupational exposure limits
OSHA	Occupational Safety and Health Administration of the US Department of Labor
PBT	Persistent, Bioaccumulative and Toxic substance
PICCS	Philippines Inventory of Chemicals and Chemical Substances
PMT	Persistent, Mobile and Toxic

PPE	Personal protective equipment
QSAR	Quantitative Structure Activity Relationship
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)
SADT	Self-Accelerating Decomposition Temperature
SAR	Structure-activity relationship
SARA	Superfund Amendments and Reauthorization Act
SDS	Safety Data Sheet
SL	Surface Limit
STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

Key literature references and sources for data used to compile the SDS
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
U.S. Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGL(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications
International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program
International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set
United Nations World Health Organization (WHO)

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Disclaimer

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End of Safety Data Sheet