

# SAFETY DATA SHEET



Revision date 18-Nov-2022

Revision Number 1

## 1. Identification

### Product identifier

Product Name E-Prep 222

### Other means of identification

Product Code(s) EPI-0404C

UN number or ID number UN3093

Synonyms None

### Details of the supplier of the safety data sheet

#### Manufacturer Address

Electrochemical Products Inc.  
17000 West Lincoln Ave  
New Berlin, WI 53151  
Phone: 262-786-9330  
E-mail: us-sales@epi.com  
www.epi.com  
Fax: 262-786-9403

### Emergency telephone number

Emergency Telephone NCEC (#EPI-29003) +1 202 464 2554, +44 1865 407333

## 2. Hazard(s) identification

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 1A

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

**Danger**

#### Hazard statements

Harmful if swallowed  
Harmful if inhaled  
Causes severe skin burns and eye damage  
May cause cancer



**Appearance** Clear, slightly yellow solution

**Physical state** Liquid

**Odor** Characteristic

#### 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/face protection  
 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  
 Do not breathe dusts or mists

#### Precautionary Statements - Response

Call a POISON CENTER or doctor/physician if you feel unwell  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 Wash contaminated clothing before reuse  
 If skin irritation or rash occurs: Get medical advice/attention  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor  
 Rinse mouth  
 Do NOT induce vomiting  
 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

#### Precautionary Statements - Storage

Store locked up

#### Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

#### Other information

Harmful to aquatic life.

### 3. Composition/information on ingredients

#### Substance

Not applicable.

#### Mixture

Chemical name	CAS No	Weight-%	Trade secret
Water	7732-18-5	60-75	*
Hydrogen peroxide	7722-84-1	12-18	*
Sulfuric acid	7664-93-9	10-20	*
Fluoroboric acid	16872-11-0	2-5	*
Trade secret	Trade secret	1-3	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

### Description of first aid measures

<b>General advice</b>	IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	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. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	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. If eye irritation persists: Get medical advice/attention.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation or rash occurs: Get medical advice/attention.
<b>Ingestion</b>	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention immediately if symptoms occur.
<b>Self-protection of the first aider</b>	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. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapors or mists. Use personal protective equipment as required. See section 8 for more information.

### Most important symptoms and effects, both acute and delayed

<b>Symptoms</b>	Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.
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### Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	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.
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## 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
<b>Large Fire</b>	CAUTION: Use of water spray when fighting fire may be inefficient.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.
<b>Specific hazards arising from the chemical</b>	The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapors.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	None.
<b>Sensitivity to static discharge</b>	None.
<b>Special protective equipment for fire-fighters</b>	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 breathing vapors or mists.

**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.

## 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. Avoid breathing vapors or mists.

### 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
Hydrogen peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup> (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m <sup>3</sup>	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m <sup>3</sup>
Sulfuric acid 7664-93-9	TWA: 0.2 mg/m <sup>3</sup> thoracic particulate matter	TWA: 1 mg/m <sup>3</sup> (vacated) TWA: 1 mg/m <sup>3</sup>	IDLH: 15 mg/m <sup>3</sup> TWA: 1 mg/m <sup>3</sup>
Fluoroboric acid 16872-11-0	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F (vacated) TWA: 2.5 mg/m <sup>3</sup>	IDLH: 250 mg/m <sup>3</sup> F
Trade secret	-	TWA: 15 mg/m <sup>3</sup> mist, total particulate TWA: 5 mg/m <sup>3</sup> mist, respirable fraction (vacated) TWA: 10 mg/m <sup>3</sup> mist, total particulate (vacated) TWA: 5 mg/m <sup>3</sup> mist, respirable fraction	-

### Biological occupational exposure limits

Chemical name	ACGIH
Fluoroboric acid 16872-11-0	2 mg/L - urine (Fluoride) - prior to shift 3 mg/L - urine (Fluoride) - end of shift

**Appropriate engineering controls**

**Engineering controls**                      Showers  
    Eyewash stations  
    Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**                      Tight sealing safety goggles. Face protection shield.

**Hand protection**                              Wear suitable gloves. Impervious gloves.

**Skin and body protection**                      Wear suitable protective clothing. Long sleeved 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.

**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.

**9. Physical and chemical properties****Information on basic physical and chemical properties**

**Physical state**                                      Liquid  
**Appearance**                                      Clear, slightly yellow solution  
**Color**    Pale yellow  
**Odor**     Characteristic

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	< 1	None known
Melting point / freezing point	0 °C / 32 °F	None known
Boiling point / boiling range	100 °C / 212 °F	None known
Flash point	No data available	None known
Relative density	1.15 - 1.195	None known
Water solubility	Completely	None known

**Other information**

**VOC Content (%)**                                      0

**10. Stability and reactivity**

**Reactivity**    No information available.

**Chemical stability**                                  Stable under normal conditions.

**Possibility of hazardous reactions**                      None under normal processing.

**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

<b>Inhalation</b>	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. Harmful by inhalation.
<b>Eye contact</b>	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.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns.
<b>Ingestion</b>	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.

### Acute toxicity

#### Numerical measures of toxicity

No information available

#### The following values are calculated based on chapter 3.1 of the GHS document

<b>ATEmix (oral)</b>	1,574.20 mg/kg
<b>ATEmix (dermal)</b>	40,496.00 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	2.74 mg/l

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg ( Rat )	-	-
Hydrogen peroxide 7722-84-1	= 1518 mg/kg ( Rat )	= 9200 mg/kg ( Rabbit )	= 2000 mg/m <sup>3</sup> ( Rat ) 4 h
Sulfuric acid 7664-93-9	= 2140 mg/kg ( Rat )	-	= 0.375 mg/L ( Rat ) 4 h
Fluoroboric acid 16872-11-0	100 - 200 mg/kg ( Rat )	-	-
Trade secret	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 2.75 mg/L ( Rat ) 4 h

### 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 burns.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Risk of serious damage to eyes. 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
Hydrogen peroxide 7722-84-1	-	Group 3	-	-
Sulfuric acid 7664-93-9	-	Group 1	Known	X

#### Legend

##### IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

##### NTP (National Toxicology Program)

Known - Known Carcinogen

##### OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target organ effects** Kidney, Respiratory system, Eyes, Skin, Teeth.

**Aspiration hazard** No information available.

**Other adverse effects** No information available.

**Interactive effects** No information available.

## 12. Ecological information

**Ecotoxicity** Harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrogen peroxide 7722-84-1	-	LC50: 10.0 - 32.0mg/L (96h, Oncorhynchus mykiss) LC50: 18 - 56mg/L (96h, Lepomis macrochirus) LC50: =16.4mg/L (96h, Pimephales promelas)	-	EC50: 18 - 32mg/L (48h, Daphnia magna)
Sulfuric acid	-	LC50: >500mg/L (96h,	-	-

7664-93-9		Brachydanio rerio)		
Fluoroboric acid 16872-11-0	-	LC50: =2600mg/L (96h, Brachydanio rerio)	-	-
Trade secret	-	LC50: 51 - 57mL/L (96h, Oncorhynchus mykiss)	-	-

**Persistence and degradability** No information available.

**Bioaccumulation** There is no data for this product.

#### Component Information

Chemical name	Partition coefficient
Trade secret	-1.75

**Other adverse effects** No information available.

### 13. Disposal considerations

#### Waste treatment 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.

### 14. Transport information

#### DOT

**UN number or ID number** UN3093  
**Proper shipping name** Corrosive liquids, oxidizing, n.o.s.  
**Transport hazard class(es)** 8  
**Subsidiary hazard class** 5.1  
**Packing group** II  
**Reportable Quantity (RQ)** (Sulfuric acid: RQ (kg)= 454.00) Sulfuric acid: RQ (lb)= 1000.00  
**DOT reportable quantity kg (calculated)** Sulfuric acid: RQ (kg)= 4495.00  
**DOT Reportable Quantity lbs. (calculated)** Sulfuric acid: RQ (lb)= 9901.00  
**Special Provisions** A6, A7, IB2  
**DOT Marine Pollutant** NP  
**Description** UN3093, Corrosive liquids, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II  
**Emergency Response Guide Number** 157

#### TDG

**UN number or ID number** UN3093  
**UN proper shipping name** Corrosive liquid, oxidizing, n.o.s.  
**Transport hazard class(es)** 8  
**Subsidiary hazard class** 5.1  
**Packing group** II  
**Special Provisions** 16  
**Description** UN3093, Corrosive liquid, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II

#### MEX

**UN number or ID number** UN3093  
**UN proper shipping name** Corrosive liquid, oxidizing, n.o.s.



<b>Transport hazard class(es)</b>	8
<b>Subsidiary hazard class</b>	5.1
<b>Packing group</b>	II
<b>Technical Name</b>	Hydrogen peroxide, Sulfuric acid
<b>Description</b>	UN3093, Corrosive liquid, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II
<b>Special Provisions</b>	274

**ICAO (air)**

<b>UN number or ID number</b>	UN3093
<b>UN proper shipping name</b>	Corrosive liquid, oxidizing, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Subsidiary hazard class</b>	5.1
<b>Packing group</b>	II
<b>Description</b>	UN3093, Corrosive liquid, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II

**IATA**

<b>UN number or ID number</b>	UN3093
<b>UN proper shipping name</b>	Corrosive liquid, oxidizing, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Subsidiary hazard class</b>	5.1
<b>Packing group</b>	II
<b>Technical Name</b>	Hydrogen peroxide, Sulfuric acid
<b>Description</b>	UN3093, Corrosive liquid, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II
<b>ERG Code</b>	8X

**IMDG**

<b>UN number or ID number</b>	UN3093
<b>UN proper shipping name</b>	Corrosive liquid, oxidizing, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Subsidiary hazard class</b>	5.1
<b>Packing group</b>	II
<b>EmS-No</b>	F-A, S-Q
<b>Special Provisions</b>	274
<b>Marine pollutant</b>	NP
<b>Description</b>	UN3093, Corrosive liquid, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II

**RID**

<b>UN number or ID number</b>	UN3093
<b>UN proper shipping name</b>	Corrosive liquid, oxidizing, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Subsidiary hazard class</b>	5.1
<b>Packing group</b>	II
<b>Classification code</b>	CO1
<b>Special Provisions</b>	274
<b>Description</b>	UN3093, Corrosive liquid, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II

**ADR**

<b>UN number or ID number</b>	UN3093
<b>UN proper shipping name</b>	Corrosive liquid, oxidizing, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Subsidiary hazard class</b>	5.1
<b>Packing group</b>	II
<b>Classification code</b>	CO1
<b>Tunnel restriction code</b>	(E)
<b>Special Provisions</b>	274
<b>Description</b>	UN3093, Corrosive liquid, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II, (E)

**ADN**

<b>UN number or ID number</b>	UN3093
<b>UN proper shipping name</b>	Corrosive liquid, oxidizing, n.o.s.
<b>Transport hazard class(es)</b>	8
<b>Subsidiary hazard class</b>	5.1
<b>Packing group</b>	II

<b>Classification code</b>	CO1
<b>Special Provisions</b>	274
<b>Description</b>	UN3093, Corrosive liquid, oxidizing, n.o.s. (Hydrogen peroxide, Sulfuric acid), 8 (5.1), II
<b>Equipment Requirements</b>	PP, EP

## 15. Regulatory information

### International Inventories

**TSCA** Complies

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Water	7732-18-5	Present	Active
Hydrogen peroxide	7722-84-1	Present	Active
Sulfuric acid	7664-93-9	Present	Active
Fluoroboric acid	16872-11-0	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active
Trade secret	-	Present	Active

**DSL/NDSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** Complies

#### **Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### **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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

#### **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	Reportable Quantity (RQ)
Hydrogen peroxide 7722-84-1	-	1000 lb	
Sulfuric acid 7664-93-9	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

**US State Regulations****California Proposition 65**

This product contains the following Proposition 65 chemicals:.

Chemical name	California Proposition 65
Sulfuric acid - 7664-93-9	Carcinogen

**U.S. State Right-to-Know Regulations**

Chemical name	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Hydrogen peroxide 7722-84-1	X	-	X
Sulfuric acid 7664-93-9	X	-	X
Fluoroboric acid 16872-11-0	X	-	-
Trade secret	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 3\* 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 Section 8: Exposure controls/personal protection**

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)  
 Ceiling Maximum limit value \* Skin designation

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (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)  
 National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 18-Nov-2022  
**Revision Note** No information available.

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**