

SAFETY DATA SHEET

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Revision Date 06/12/2017

Version 1.3

SECTION 1. Identification

Product identifier

Product number	109001
Product name	Folin-Ciocalteu's phenol reagent

Relevant identified uses of the substance or mixture and uses advised against

Identified uses	Reagent for analysis
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Details of the supplier of the safety data sheet

Company	EMD Millipore Corporation 290 Concord Road, Billerica, MA 01821, United States of America General Inquiries: +1-978-715-4321 Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5) MilliporeSigma is a business of Merck KGaA, Darmstadt, Germany.
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Emergency telephone	800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week
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SECTION 2. Hazards identification

GHS Classification

Corrosive to Metals, Category 1, H290
Skin corrosion, Category 1A, H314
Serious eye damage, Category 1, H318

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS-Labeling

Hazard pictograms



Signal Word
Danger

Hazard Statements

H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

Precautionary Statements

P234 Keep only in original container.
P264 Wash skin thoroughly after handling.

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P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P321 Specific treatment (see supplemental first aid instructions on this label).
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.
P405 Store locked up.
P406 Store in corrosive resistant stainless steel container with a resistant inner liner.
P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution of inorganic compounds.

Hazardous ingredients

Chemical name (Concentration)

CAS-No.

lithium sulphate ($\geq 10\%$ - $< 30\%$)

10377-48-7

Exact percentages are being withheld as a trade secret.

Sodium tungstate ($\geq 5\%$ - $< 10\%$)

13472-45-2

Exact percentages are being withheld as a trade secret.

phosphoric acid ($\geq 5\%$ - $< 10\%$)

7664-38-2

Exact percentages are being withheld as a trade secret.

hydrochloric acid ($\geq 1\%$ - $< 5\%$)

Exact percentages are being withheld as a trade secret.

Disodium molybdate ($\geq 1\%$ - $< 5\%$)

7631-95-0

Exact percentages are being withheld as a trade secret.

SECTION 4. First aid measures

Description of first-aid measures

General advice

First aider needs to protect himself.

Inhalation

After inhalation: fresh air. Call in physician.

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Skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.

Ingestion

After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Call a physician immediately. Do not attempt to neutralize.

Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Diarrhea, Vomiting

The following applies to lithium compounds in general: when handled or used inappropriately, the absorption of large quantities is followed by CNS disorders, agitation, spasms, ataxia (impaired locomotor coordination) due to disturbed electrolyte balance.

Irritation and corrosion, Cough, Shortness of breath

Risk of blindness!

Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapors.

Fire may cause evolution of:

Sulfur oxides

Advice for firefighters

Special protective equipment for fire-fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

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Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10).

Take up with liquid-absorbent and neutralizing material (e.g. Chemizorb® H⁺, Art. No. 101595).

Dispose of properly. Clean up affected area.

SECTION 7. Handling and storage

Precautions for safe handling

Observe label precautions.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

No metal containers.

Tightly closed.

Store at +15°C to +25°C (+59°F to +77°F).

SECTION 8. Exposure controls/personal protection

Exposure limit(s)

Ingredients

Basis	Value	Threshold limits	Remarks
<i>Sodium tungstate 13472-45-2</i>			
ACGIH	Time Weighted Average (TWA):	1 mg/m ³	Expressed as: as W
	Short Term Exposure Limit (STEL):	3 mg/m ³	Expressed as: as W
NIOSH/GUIDE	Short Term Exposure Limit (STEL):	3 mg/m ³	Expressed as: as W
	Recommended exposure limit (REL):	1 mg/m ³	Expressed as: as W
Z1A	Time Weighted Average (TWA):	1 mg/m ³	Expressed as: as W
	Short Term Exposure Limit (STEL):	3 mg/m ³	Expressed as: as W

phosphoric acid 7664-38-2

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ACGIH	Time Weighted Average (TWA):	1 mg/m ³
	Short Term Exposure Limit (STEL):	3 mg/m ³
NIOSH/GUIDE	Recommended exposure limit (REL):	1 mg/m ³
	Short Term Exposure Limit (STEL):	3 mg/m ³
OSHA_TRANS	PEL:	1 mg/m ³
Z1A	Short Term Exposure Limit (STEL):	3 mg/m ³
	Time Weighted Average (TWA):	1 mg/m ³

hydrochloric acid

ACGIH	Ceiling Limit Value:	2 ppm
NIOSH/GUIDE	Ceiling Limit Value and Time Period (if specified):	5 ppm 7 mg/m ³
OSHA_TRANS	Ceiling Limit Value:	5 ppm 7 mg/m ³
Z1A	Ceiling Limit Value:	5 ppm 7 mg/m ³

Disodium molybdate 7631-95-0

ACGIH	Time Weighted Average (TWA):	0.5 mg/m ³	Form of exposure: Respirable fraction. Expressed as: as Mo
OSHA_TRANS	PEL:	5 mg/m ³	Expressed as: as Mo
Z1A	Time Weighted Average (TWA):	5 mg/m ³	Expressed as: as Mo

Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance.

Eye/face protection

Tightly fitting safety goggles

Hand protection

full contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

splash contact:

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm

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Break through time: > 480 min

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet and supplied by us as well as to the purpose specified by us. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Other protective equipment:

Acid-resistant protective clothing.

Respiratory protection

required when vapors/aerosols are generated.

Recommended Filter type: filter ABEK

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are performed according to the instructions of the producer. These measures have to be properly documented.

SECTION 9. Physical and chemical properties

Physical state	liquid
Color	yellow
Odor	slight
Odor Threshold	No information available.
pH	< 0.5 at 68 °F (20 °C)
Melting point	No information available.
Boiling point	No information available.
Flash point	Not applicable
Evaporation rate	No information available.
Flammability (solid, gas)	No information available.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapor pressure	No information available.
Relative vapor density	No information available.

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Density	ca.1.24 g/cm ³ at 68 °F (20 °C)
Relative density	No information available.
Water solubility	at 68 °F (20 °C) soluble
Partition coefficient: n-octanol/water	Not applicable
Autoignition temperature	No information available.
Decomposition temperature	No information available.
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none
Corrosion	May be corrosive to metals.

SECTION 10. Stability and reactivity

Reactivity

See below

Chemical stability

The product is chemically stable under standard ambient conditions (room temperature) .

Possibility of hazardous reactions

Violent reactions possible with:

The generally known reaction partners of water.

Generates dangerous gases or fumes in contact with:

Metals

Gives off hydrogen by reaction with metals.

Conditions to avoid

no information available

Incompatible materials

Metals

Hazardous decomposition products

in the event of fire: See section 5.

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SECTION 11. Toxicological information

Information on toxicological effects

Likely route of exposure

Eye contact, Skin contact

Target Organs

Eyes

Skin

Respiratory system

Cornea

Kidneys

Blood

Acute oral toxicity

Acute toxicity estimate: > 2,000 mg/kg

Calculation method

Symptoms: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Acute inhalation toxicity

Symptoms: mucosal irritations, Cough, Shortness of breath, Possible damages:, damage of respiratory tract

Skin irritation

Mixture causes severe burns.

Eye irritation

Mixture causes serious eye damage. Risk of blindness!

Specific target organ systemic toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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ACGIH Confirmed animal carcinogen with unknown relevance to humans.

Disodium molybdate 7631-95-0

Further information

After absorption of large quantities:
disturbed electrolyte balance.

The following applies to lithium compounds in general: when handled or used inappropriately, the absorption of large quantities is followed by CNS disorders, agitation, spasms, ataxia (impaired locomotor coordination) due to disturbed electrolyte balance.

Other dangerous properties can not be excluded.

Handle in accordance with good industrial hygiene and safety practice.

Ingredients

lithium sulphate

Acute oral toxicity

LD50 Rat: 613 mg/kg (ECHA)

Acute inhalation toxicity

LC50 Rat: > 2 mg/l; 4 h ; dust/mist The value is given in analogy to the following substances: Lithium carbonate
OECD Test Guideline 403

Acute dermal toxicity

LD50 Rabbit: > 3,000 mg/kg

OECD Test Guideline 402 The value is given in analogy to the following substances: Lithium carbonate

Skin irritation

Rabbit

Result: No skin irritation

OECD Test Guideline 404

The value is given in analogy to the following substances: Lithium carbonate

Eye irritation

Rabbit

Result: Eye irritation

OECD Test Guideline 405

The value is given in analogy to the following substances: Lithium carbonate

Sensitization

Sensitization test: Guinea pig

Result: negative

Method: OECD Test Guideline 406

The value is given in analogy to the following substances: Lithium carbonate

Germ cell mutagenicity

Genotoxicity in vitro

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

Method: OECD Test Guideline 471

The value is given in analogy to the following substances: Lithium hydroxide

Mutagenicity (mammal cell test): chromosome aberration.

Human lymphocytes

Result: negative

Method: OECD Test Guideline 473

The value is given in analogy to the following substances: Lithium hydroxide

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In vitro mammalian cell gene mutation test
Result: negative
Method: OECD Test Guideline 476
The value is given in analogy to the following substances: Lithium hydroxide

Sodium tungstate

Acute oral toxicity
Acute toxicity estimate: 500.1 mg/kg
Expert judgment

LD50 Rat: 1,373 mg/kg
OECD Test Guideline 401

Acute inhalation toxicity
LC50 Rat: > 5.01 mg/l; 4 h ; dust/mist
OECD Test Guideline 403

Acute dermal toxicity
LD50 Rat: > 2,000 mg/kg
OECD Test Guideline 402

Skin irritation
Rabbit
Result: No skin irritation
OECD Test Guideline 404

Eye irritation
Rabbit
Result: slight irritation
OECD Test Guideline 405

Sensitization
Maximization Test Guinea pig
Result: negative
Method: OECD Test Guideline 406

Germ cell mutagenicity
Genotoxicity in vivo
In vivo micronucleus test
Mouse
Result: negative
Method: OECD Test Guideline 474

Genotoxicity in vitro
Mutagenicity (mammal cell test): chromosome aberration.
Chinese hamster ovary cells
Result: negative
Method: OECD Test Guideline 473

In vitro mammalian cell gene mutation test
MOUSE LYMPHOMA TEST
Result: negative
Method: OECD Test Guideline 476

Ames test
Escherichia coli/Salmonella typhimurium
Result: negative
Method: OECD Test Guideline 473

phosphoric acid

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Acute oral toxicity

LD50 Rat: ca. 2,600 mg/kg
OECD Test Guideline 423

Acute dermal toxicity

LD50 Rabbit: 2,740 mg/kg (IUCLID)

Skin irritation

Rabbit
Result: Causes burns.
US-EPA

Eye irritation

Rabbit
Result: Causes burns.
(IUCLID)

Sensitization

Patch test: human
Result: negative
(IUCLID)

Germ cell mutagenicity

Genotoxicity in vitro

Ames test
Escherichia coli/Salmonella typhimurium
Result: negative
Method: OECD Test Guideline 471

In vitro mammalian cell gene mutation test

Result: negative
Method: OECD Test Guideline 473

In vitro mammalian cell gene mutation test

MOUSE LYMPHOMA TEST
Result: negative
Method: OECD Test Guideline 476

hydrochloric acid

Skin irritation

Rabbit
Result: Corrosive
OECD Test Guideline 404

Eye irritation

Rabbit
Result: Irreversible effects on the eye
OECD Test Guideline 405

Sensitization

Maximization Test Guinea pig
Result: Does not cause skin sensitization.
Method: OECD Test Guideline 406

Disodium molybdate

No information available.

SECTION 12. Ecological information

Ecotoxicity

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No information available.

Persistence and degradability

No information available.

Bioaccumulative potential

Partition coefficient: n-octanol/water

Not applicable

Mobility in soil

No information available.

Additional ecological information

Biological effects:

Harmful effect due to pH shift. Does not cause biological oxygen deficit.

Discharge into the environment must be avoided.

Ingredients

lithium sulphate

Toxicity to fish

static test LC50 *Oncorhynchus mykiss* (rainbow trout): 45 mg/l; 96 h

Analytical monitoring: yes

OECD Test Guideline 203 The value is given in analogy to the following substances: Lithium carbonate

Toxicity to daphnia and other aquatic invertebrates

static test EC50 *Daphnia magna* (Water flea): 49 mg/l; 48 h

Analytical monitoring: yes

OECD Test Guideline 202 The value is given in analogy to the following substances: Lithium carbonate

Toxicity to algae

static test ErC50 *Desmodesmus subspicatus* (green algae): > 596 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201 The value is given in analogy to the following substances: Lithium carbonate

static test NOEC *Desmodesmus subspicatus* (green algae): 75 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201 The value is given in analogy to the following substances: Lithium carbonate

Toxicity to fish (Chronic toxicity)

semi-static test NOEC *Danio rerio* (zebra fish): 22.73 mg/l; 34 d

Analytical monitoring: yes

OECD Test Guideline 210 The value is given in analogy to the following substances: Lithium Hydroxide, Monohydrate

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

semi-static test NOEC *Daphnia magna* (Water flea): 13.5 mg/l; 21 d

Analytical monitoring: yes

OECD Test Guideline 211 The value is given in analogy to the following substances: lithium

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Sodium tungstate

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Toxicity to algae

static test ErC50 *Pseudokirchneriella subcapitata* (green algae): > 17.7 mg/l; 72 h
OECD Test Guideline 201

Toxicity to fish (Chronic toxicity)

flow-through test NOEC *Danio rerio* (zebra fish): > 9.8 mg/l; 38 d

OECD Test Guideline 210

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

phosphoric acid

Toxicity to fish

LC50 *Gambusia affinis* (Mosquito fish): 138 mg/l; 96 h (External MSDS)

Toxicity to daphnia and other aquatic invertebrates

static test EC50 *Daphnia magna* (Water flea): > 100 mg/l; 48 h

Analytical monitoring: yes

OECD Test Guideline 202

Toxicity to algae

static test ErC50 *Desmodesmus subspicatus* (green algae): > 100 mg/l; 72 h

Analytical monitoring: yes

OECD Test Guideline 201

Toxicity to bacteria

EC50 activated sludge: 270 mg/l(IUCLID)

Biodegradability

The methods for determining the biological degradability are not applicable to inorganic substances.

Partition coefficient: n-octanol/water

log Pow: -0.77

(calculated)

(Lit.) Bioaccumulation is not expected.

PBT/vPvB: Not applicable for inorganic substances

hydrochloric acid

Toxicity to fish

Lepomis macrochirus (Bluegill sunfish): 20.5 mg/l; 96 h

OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

EC50: 1.3 mg/l; 48 h

OECD Test Guideline 202

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

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Disodium molybdate

No information available.

SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

SECTION 14. Transport information

Land transport (DOT)

UN number UN 3264
Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONT. HYDROCHLORIC ACID, PHOSPHORIC ACID)
Class 8
Packing group III
Environmentally hazardous --

Air transport (IATA)

UN number UN 3264
Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONT. HYDROCHLORIC ACID, PHOSPHORIC ACID)
Class 8
Packing group III
Environmentally hazardous --
Special precautions for user no

Sea transport (IMDG)

UN number UN 3264
Proper shipping name CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (CONT. HYDROCHLORIC ACID, PHOSPHORIC ACID)
Class 8
Packing group III
Environmentally hazardous --
Special precautions for user yes
EmS F-A S-B

SECTION 15. Regulatory information

United States of America

SARA 313

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ingredients

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hydrochloric acid

3.55 %

SARA 302

The following components are subject to reporting levels established by SARA Title III, Section 302:

Ingredients

hydrochloric acid

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Ingredients

hydrochloric acid

phosphoric acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Ingredients

hydrochloric acid

phosphoric acid

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

DEA List I

Not listed

DEA List II

Listed

Ingredients

hydrochloric acid

US State Regulations

Massachusetts Right To Know

Ingredients

phosphoric acid

hydrochloric acid

Brom

Pennsylvania Right To Know

Ingredients

phosphoric acid

hydrochloric acid

New Jersey Right To Know

Ingredients

phosphoric acid

hydrochloric acid

California Prop 65 Components

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL

SECTION 16. Other information

Training advice

Provide adequate information, instruction and training for operators.

Labeling

Hazard pictograms



Signal Word

Danger

Hazard Statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Precautionary Statements

Prevention

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P310 IF exposed or concerned: immediately call a POISON CENTER or doctor/ physician.

Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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