PERACID CLEAR

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
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SECTION 1 Identification

1.1. Product identifier

Product form : Mixture
Product name : PERACID CLEAR
Product code : 1462

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Peracetic acid bleach
Restrictions on use : For professional use only

1.4. Supplier's details

Christeyns North America, LLC
311 Staton Road
Greenville, NC 27834
USA
T 252-756-8616 / 800.869.6171
info@christeyns.us - www.christeyns.com

1.5. Emergency phone number

Emergency number : VELOCITY EHS (800) 255-3924 (24 HOURS)
(For use only in the event of emergencies involving a spill, leak, fire, exposure, or accident involving chemicals)

SECTION 2 Hazard Identification

2.1. Classification of the substance or mixture

GHS US classification

Oxidising liquid, Category 2	H272	May intensify fire; oxidizer.
Acute toxicity (oral), Category 4	H302	Harmful if swallowed.
Acute toxicity (inhalation), Category 4	H332	Harmful if inhaled.
Skin corrosion/irritation, Category 1A	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	H335	May cause respiratory irritation.
Hazardous to the aquatic environment — Acute Hazard, Category 1	H400	Very toxic to aquatic life.

Full text of H statements : see section 16

2.2. Label elements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US)	:	Danger
Hazard statements (GHS US)	:	H272 - May intensify fire; oxidizer H302+H332 - Harmful if swallowed or if inhaled H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation H400 - Very toxic to aquatic life
Precautionary statements (GHS US)	:	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 - Do not breathe fumes, mists, vapors, or spray. P264 - Wash hands, forearms and face thoroughly after handling. P273 - Avoid release to the environment. P280 - Wear protective gloves, protective clothing, eye protection, and 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 or doctor. P321 - Specific treatment (see supplemental first aid instruction on this label). P363 - Take off immediately all contaminated clothing and wash it before reuse. P370+P378 - In case of fire: Use appropriate media to extinguish. P391 - Collect spillage. P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

SECTION 3 Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Hydrogen peroxide	CAS-No.: 7722-84-1	10 - 30
Acetic acid	CAS-No.: 64-19-7	5 - 10
Peracetic acid	CAS-No.: 79-21-0	3 - 7
Sulfuric acid	CAS-No.: 7664-93-9	0.1 - 1

Full text of hazard classes and H-statements : see section 16

SECTION 4 First aid measures

4.1. Description of necessary first-aid measures

First-aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. Treat symptomatically. Get medical attention immediately.
First-aid measures after skin contact	:	Remove contaminated clothing and wash before reuse. Rinse skin with plenty of water for at least 15 minutes. If exposed to small amounts, get medical attention if symptoms occur or irritation persists. If exposed to large amounts, get medical attention immediately.
First-aid measures after eye contact	:	Rinse immediately with water for 15 minutes, occasionally lifting upper and lower eyelids. Remove contact lenses, if present, and easy to do. Continue rinsing. Get medical attention immediately.

First-aid measures after ingestion : Rinse mouth with water if the person is conscious. Do not induce vomiting unless directed by medical personnel. Get medical attention immediately.

4.2. Most important symptoms/effects, acute and delayed

Symptoms/injuries after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/injuries after skin contact : Highly corrosive to skin. Causes severe burns.
Symptoms/injuries after eye contact : Liquid and vapor corrosive to eyes; will cause permanent damage if not rinsed promptly.
Symptoms/injuries after ingestion : Burns of the upper digestive and respiratory tracts. May perforate the oesophagus or the digestive tract.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Do not use a water jet as this can spread the fire and may cause the splattering of corrosive liquid.

5.2. Specific hazards arising from the chemical

Fire hazard : May intensify fire; oxidizer. Decomposition products may include carbon oxides.
Explosion hazard : On heating, there is a risk of bursting due to internal pressure build-up. Cool down the containers exposed to heat with a water spray.
Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. In case of fire, do not breathe fumes. Move containers from the fire area if you can do so without risk. Prevent firefighting water from entering the environment.
Protection during firefighting : Wear a self-contained breathing apparatus. Do not attempt to take action without suitable protective equipment.

SECTION 6 Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment : For spills or leaks, contact a supervisor and/or emergency responder. Avoid contact with spilled material and keep unnecessary personnel away.

For emergency responders

Protective equipment : See Section 8 for recommended personal protective equipment. Ventilate the area and restrict access to the spill or leak zone. Have emergency procedures in place for treating exposures or incidents. Only trained and authorized personnel equipped with proper protective equipment should perform cleanup.

Environmental precautions : Avoid release onto the ground, into storm sewers, or bodies of water.

6.2. Methods and materials for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Stop leak if safe to do so. Contain spillage, soak up with non-combustile absorbent material (e.g. sand, earth, diatomaceous earth, vermiculite) and collect all waste in suitable, labeled, and closed containers. Dispose according to local legislation (See Section 13).

SECTION 7 Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety practices. Use only with adequate ventilation. Avoid contact with skin, eyes, and clothing. Use appropriate personal protection equipment (PPE). Wash thoroughly after handling.

7.2. Conditions for safe storage, including incompatibilities

Storage conditions : Keep away from sources of heat or ignition.

Incompatible products : Keep away from strong acids, strong bases, flammables/combustibles, oxidizers, and reactive metals (aluminum, zinc, magnesium, iron filings).

Storage temperature : 32 – 95 °F

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Hydrogen peroxide (7722-84-1)	
USA - ACGIH® - Threshold Limit Values	
Local name	Hydrogen peroxide
ACGIH® TLV® TWA	1.4 mg/m³
	1 ppm
Remark (ACGIH®)	TLV® Basis: Eye, URT & Skin irr. Notations: A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Hydrogen peroxide
OSHA PEL TWA	1.4 mg/m³
	1 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
Local name	Hydrogen peroxide
NIOSH REL 10h TWA	1 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

Acetic acid (64-19-7)	
USA - NIOSH - Occupational Exposure Limits	
Local name	Acetic acid
NIOSH REL 10h TWA	10 ppm

Acetic acid (64-19-7)	
NIOSH REL (STEL)	15 ppm
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

Peracetic acid (79-21-0)	
USA - ACGIH® - Threshold Limit Values	
Local name	Peracetic acid
ACGIH® TLV® STEL	1.24 mg/m³ (IFV - Inhalable fraction and vapor)
	0.4 ppm (IFV - Inhalable fraction and vapor)
Remark (ACGIH®)	TLV® Basis: Eye, Skin & URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025

Sulfuric acid (7664-93-9)	
USA - ACGIH® - Threshold Limit Values	
Local name	Sulfuric acid
ACGIH® TLV® TWA	0.2 mg/m³ (T - Thoracic particulate matter)
Remark (ACGIH®)	TLV® Basis: Mucostasis; Pulm func. Notations: A2 (Suspected Human Carcinogen)
Regulatory reference	ACGIH 2025
USA - OSHA - Occupational Exposure Limits	
Local name	Sulfuric acid
OSHA PEL TWA	1 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
USA - NIOSH - Occupational Exposure Limits	
Local name	Sulfuric acid
NIOSH REL 10h TWA	1 mg/m³
Regulatory reference (US-NIOSH)	OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))

8.2. Appropriate engineering controls

Appropriate engineering controls : Maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable guidelines, use only with adequate ventilation. Eye wash facilities and emergency showers must be available when handling this product.

8.3. Individual protection measures, such as personal protective equipment

Materials for protective clothing:
Wear suitable protective clothing. Long sleeved protective clothing.

Hand protection:
Chemical resistant PVC gloves

Eye protection:
Safety glasses with face shield

SECTION 9 Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	:	Liquid
Color	:	Colorless
Odor	:	Strong acetic acid (vinegar) odor
Odor threshold	:	No data available
pH	:	2.83
pH solution concentration	:	1 %
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	≥ 212 °F
Flash point	:	> 204.8 °F
Flammability (solid, gas)	:	Not flammable.
Vapor pressure	:	No data available
Relative vapor density at 20°C	:	No data available
Relative density	:	1.115
Density	:	1.1 kg/l
Solubility	:	Miscible with water.
Log Pow	:	Does not apply to inorganic and ionic liquids and does not generally apply to mixtures.
Autoignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	2 mm²/s
Viscosity, dynamic	:	< 30 mPa·s
Explosion limits	:	No data available
Explosive properties	:	Not explosive.
Oxidizing properties	:	May intensify fire; oxidizer.
Particle characteristics	:	No data available

Hydrogen peroxide

Particle characteristics	No data available

Acetic acid

Particle characteristics	No data available

Peracetic acid

Particle characteristics	No data available

Sulfuric acid

Particle characteristics	No data available

9.2. Data relevant with regard to physical hazard classes (supplemental)

SADT	:	≥ 60 °C (SADT for <=1000L and 26m3 non-insulated tank)

SECTION 10 Stability and reactivity

10.1. Reactivity

Oxidizer product. Reacts with reducing agents, organic materials, or combustible substances; may release oxygen gas.

10.2. Chemical stability

Stable under recommended storage conditions. Decomposes slowly when exposed to heat, sunlight, or contamination with incompatible materials.

10.3. Possibility of hazardous reactions

May cause exothermic decomposition and release of oxygen if contaminated or heated. Contact with incompatible materials may cause reactions.

10.4. Conditions to avoid

Avoid heat, sparks, open flames, direct sunlight, and contamination with organic materials or metals (iron, copper, nickel, manganese). Avoid mixing with other cleaning products.

10.5. Incompatible materials

Incompatible with reducing agents, organic materials, acids, bases, transition metals, metal salts, or combustible materials. Avoid contact with chlorinated products, ammonia, or strong alkalis.

10.6. Hazardous decomposition products

Decomposition may produce oxygen or other toxic and irritating gases.

SECTION 11 Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Slight skin absorption; no toxic effects likely by this route.
Acute toxicity (inhalation) : Harmful if inhaled.

PERACID CLEAR	
ATE US (oral)	872.492 mg/kg body weight
ATE US (dermal)	1224.49 mg/kg body weight
ATE US (dust, mist)	2.51 mg/l/4h

Hydrogen peroxide (7722-84-1)	
LD50 oral rat	431 mg/kg
LD50 dermal rabbit	3000 mg/kg Source: ChemIDPlus
LC50 Inhalation - Rat	2000 mg/m³ Source: ChemIDPlus

Acetic acid (64-19-7)	
LD50 oral rat	3310 mg/kg Source: ECHA Registered substances
LD50 dermal rabbit	1060 mg/kg Source: HSDB, NITE
LC50 Inhalation - Rat [ppm]	16000 ppm Source: ChemIDPlus

Sulfuric acid (7664-93-9)	
LD50 oral rat	2140 mg/kg Source: ECHA
LC50 Inhalation - Rat	0.375 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation : Causes severe skin burns.
pH: 2.83

Serious eye damage/irritation : Causes serious eye damage.
pH: 2.83

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Hydrogen peroxide (7722-84-1)	
IARC group	3 - Not classifiable

Sulfuric acid (7664-93-9)	
IARC group	1 - Carcinogenic to humans
National Toxicology Program (NTP) Status	Known Human Carcinogens

Reproductive toxicity : Not classified
STOT-single exposure : May cause respiratory irritation.

Hydrogen peroxide (7722-84-1)	
STOT-single exposure	May cause respiratory irritation.

Peracetic acid (79-21-0)	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

PERACID CLEAR	
Viscosity, kinematic	2 mm²/s

Hydrogen peroxide (7722-84-1)	
Viscosity, kinematic	No data available

Acetic acid (64-19-7)	
Viscosity, kinematic	No data available

Peracetic acid (79-21-0)	
Viscosity, kinematic	No data available

Sulfuric acid (7664-93-9)	
Viscosity, kinematic	11.413 mm²/s

Symptoms/injuries after inhalation : Inhalation may cause irritation (cough, short breathing, difficulty in breathing).
Symptoms/injuries after skin contact : Highly corrosive to skin. Causes severe burns.
Symptoms/injuries after eye contact : Liquid and vapor corrosive to eyes; will cause permanent damage if not rinsed promptly.
Symptoms/injuries after ingestion : Burns of the upper digestive and respiratory tracts. May perforate the oesophagus or the digestive tract.

SECTION 12 Ecological information

12.1. Ecotoxicity

Hazardous to the aquatic environment, short–term (acute) : Very toxic to aquatic life.
Hazardous to the aquatic environment, long–term (chronic) : Not classified

Hydrogen peroxide (7722-84-1)	
LC50 - Fish [1]	16.4 mg/l Source: ECHA

Hydrogen peroxide (7722-84-1)	
EC50 72h - Algae [1]	1.38 mg/l Source: ECHA
LOEC (chronic)	1.25 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	0.63 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Acetic acid (64-19-7)	
LC50 - Fish [1]	31.3 – 67.6 mg/l Source: ECHA
EC50 - Crustacea [1]	18.9 mg/l Source: ECHA
EC50 72h - Algae [1]	4.51 mg/l Source: ECHA

Peracetic acid (79-21-0)	
LC50 - Fish [1]	0.53 mg/l Source: ECHA Harmonised C&L
EC50 - Crustacea [1]	0.73 mg/l Source: ECHA Harmonised C&L

Sulfuric acid (7664-93-9)	
LC50 - Fish [1]	16 – 28 mg/l Source: ECHA, NCIS
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC (chronic)	0.15 mg/l Test organisms (species): other:
NOEC chronic fish	0.31 mg/l Test organisms (species): Salvelinus fontinalis Duration: '213 d'

12.2. Persistence and degradability

PERACID CLEAR	
Persistence and degradability	Rapidly degradable.

Hydrogen peroxide (7722-84-1)	
Persistence and degradability	Biodegradable.

Acetic acid (64-19-7)	
Persistence and degradability	Not rapidly degradable.

Peracetic acid (79-21-0)	
Persistence and degradability	Biodegradable.

Sulfuric acid (7664-93-9)	
Persistence and degradability	Rapidly degradable.

12.3. Bioaccumulative potential

PERACID CLEAR	
Partition coefficient n-octanol/water (Log Kow)	Does not apply to inorganic and ionic liquids and does not generally apply to mixtures.

Hydrogen peroxide (7722-84-1)	
Log Pow	-1.36 Source: IPCS

Acetic acid (64-19-7)	
Log Pow	-0.17 Source: ECHA

Peracetic acid (79-21-0)	
Log Pow	-1.25

Sulfuric acid (7664-93-9)	
Log Pow	-2.2 Source: HSDB

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13 Disposal considerations

Regional legislation (waste) : Avoid unauthorized disposal. Do not dump into any body of water. Comply with federal, state/provincial and local laws/regulations. Do not reuse empty containers.

Waste treatment methods : Do not allow the product to contaiminate any body of water. Refer to Section 8 for personal protection equipment.

SECTION 14 Transport information

In accordance with DOT

DOT
14.1. UN number
UN3149
14.2. Proper Shipping Name
Hydrogen peroxide and peroxyacetic acid mixtures, stabilized
Transport document description
UN3149 Hydrogen peroxide and peroxyacetic acid mixtures, stabilized, 5.1 (8), II
14.3. Transport hazard class(es)
5.1 (8)

14.4. Packing group
II
14.5. Environmental hazards
Dangerous for the environment: Yes
No supplementary information available

14.6. Transport in bulk

Not applicable

14.7. Special precautions for user

DOT

UN-No. (DOT)	:	UN3149
DOT Packaging Exceptions (49 CFR 173.xxx)	:	152
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	202
DOT Packaging Bulk (49 CFR 173.xxx)	:	243

SECTION 15 Regulatory information

15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Peracetic acid	CAS-No. 79-21-0	3 - 7%
Sulfuric acid	CAS-No. 7664-93-9	0.1 - 1%

Hydrogen peroxide (7722-84-1)

RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

Acetic acid (64-19-7)

CERCLA RQ	5000 lb

Peracetic acid (79-21-0)

RQ (Reportable quantity, section 304 of EPA's List of Lists)	500 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb

Sulfuric acid (7664-93-9)

CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

15.2. International regulations

No additional information available

15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Hydrogen peroxide(7722-84-1)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Acetic acid(64-19-7)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Peracetic acid(79-21-0)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Sulfuric acid(7664-93-9)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 6/10/2026

Issue date : 6/18/2024

Full text of hazard classes and H-statements	
H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H400	Very toxic to aquatic life

Safety Data Sheet (SDS), USA ML

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.