



SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : Peracid Brite US
Product code : 527

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Stabilised mixture of peracetic acid, hydrogen peroxide, acetic acid and water
Restrictions on use : For professional use only

1.3. Supplier

Christeyns Laundry Technology LLC
100 Laurel Street, Ste 120
East Bridgewater, MA 02333 - USA
T 617 203 2169
info.usa@christeyns.com - www.christeyns.com

1.4. Emergency telephone number

Emergency number : Chemtrec: 1-800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Organic Peroxide Category F	H242 Heating may cause a fire.
Corrosive to metals Category 1	H290 May be corrosive to metals
Acute toxicity (oral) Category 4	H302 Harmful if swallowed
Acute toxicity (inhalation:dust,mist) 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	H335 May cause respiratory irritation

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) : 

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H242 - Heating may cause a fire.
H290 - May be corrosive to metals
H302+H332 - Harmful if swallowed or if inhaled
H314 - Causes severe skin burns and eye damage
H318 - Causes serious eye damage
H335 - May cause respiratory irritation

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P271 - Use only outdoors or in a well-ventilated area.
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 or doctor
P312 - Call a poison center or doctor if you feel unwell
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

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
peracetic acid	(CAS-No.) 79-21-0	10 - 20
Acetic acid	(CAS-No.) 64-19-7	10 - 30

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

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Wash skin with plenty of water.
First-aid measures after eye contact	: Immediately rinse with water for a prolonged period while holding the eyelids wide open.
First-aid measures after ingestion	: Rinse mouth out with water. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/injuries after inhalation	: Corrosive to the respiratory tract.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Corrosive to eyes.
Symptoms/injuries after ingestion	: Burns of the upper digestive and respiratory tracts.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : water in large amounts.

5.2. Specific hazards arising from the chemical

No additional information available

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Use self-contained breathing apparatus and chemically protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Concerning personal protective equipment to use, see item 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent liquid from entering sewers, watercourses, underground or low areas.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes. After use, container has to be completely emptied and closed. Never return unused material to original container.
- Hygiene measures : Do not eat, drink or smoke when using this product. Take off immediately all contaminated clothing and wash it before reuse. Wash hands before breaks and after work.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in original container. Store tightly closed in a dry and cool place.
- Information on mixed storage : metals. Reducing agents. Bases.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Peracid Brite US	
No additional information available	
peracetic acid (79-21-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Peracetic acid
ACGIH STEL (ppm)	0.4 ppm
Remark (ACGIH)	A4 (Not classifiable as a Human Carcinogen: Agents which cause concern that they could be carcinogenic for humans but which cannot be assessed conclusively because of a lack of data. In vitro or animal studies do not provide indications of carcinogenicity which are sufficient to classify the agent into one of the other categories)
Regulatory reference	ACGIH 2019
Acetic acid (64-19-7)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Acetic acid
ACGIH TWA (ppm)	10 ppm
ACGIH STEL (ppm)	15 ppm
Remark (ACGIH)	URT & eye irr; pulm func
Regulatory reference	ACGIH 2019
USA - OSHA - Occupational Exposure Limits	
Local name	Acetic acid
OSHA PEL (TWA) (mg/m ³)	25 mg/m ³
OSHA PEL (TWA) (ppm)	10 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1
Hydrogen peroxide (7722-84-1)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Hydrogen peroxide
ACGIH TWA (ppm)	1 ppm
Remark (ACGIH)	Eye, URT, & skin irr
Regulatory reference	ACGIH 2019
USA - OSHA - Occupational Exposure Limits	
Local name	Hydrogen peroxide
OSHA PEL (TWA) (mg/m ³)	1.4 mg/m ³
OSHA PEL (TWA) (ppm)	1 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

No additional information available

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Chemical resistant PVC gloves (to European standard EN 374 or equivalent)

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Eye protection:

Face shield

Skin and body protection:

Long sleeved protective clothing. Wear suitable protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Extra personal protection: A/P2 filter respirator for organic vapour and harmful dust

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Color	: Colorless
Odor	: acrid and pungent
Odor threshold	: No data available
pH	: 0.5 ± 0.5 (100%)
Melting point	: No data available
Freezing point	: No data available
Boiling point	: > 100 °C
Flash point	: 80°C (closed cup)
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1.144 kg/l
Solubility	: Water: completely soluble
Log Pow	: No data available
Autoignition temperature	: No data available
Decomposition temperature	: >= 60 °C (SADT for <=1000L and 26m3 non-insulated tank)
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No decomposition if used as directed. Contact with alkaline products gives exothermic reaction. Avoid contamination with organic substances.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heating. Direct sunlight.

10.5. Incompatible materials

Bases. Organic materials. metals.

10.6. Hazardous decomposition products

acetic acid.

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Harmful if inhaled.

ATE US (oral)	1070.956 mg/kg body weight
ATE US (dust, mist)	3.695 mg/l/4h

peracetic acid (79-21-0)

ATE US (oral)	500 mg/kg body weight
ATE US (dermal)	1100 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

Acetic acid (64-19-7)

ATE US (oral)	3320 mg/kg body weight
ATE US (dermal)	1060 mg/kg body weight

Hydrogen peroxide (7722-84-1)

LD50 oral rat	431 mg/kg
LD50 dermal rabbit	6440 mg/kg
ATE US (oral)	431 mg/kg body weight
ATE US (dermal)	6440 mg/kg body weight
ATE US (gases)	4500 ppmV/4h
ATE US (vapors)	11 mg/l/4h
ATE US (dust, mist)	1.5 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns and eye damage.
pH: 0.5 ± 0.5 (100%)
Serious eye damage/irritation : Causes serious eye damage.
pH: 0.5 ± 0.5 (100%)
Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

Hydrogen peroxide (7722-84-1)

IARC group	3 - Not classifiable
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Reproductive toxicity : Not classified

Specific target organ toxicity – single exposure : May cause respiratory irritation.

Hydrogen peroxide (7722-84-1)

Specific target organ toxicity – single exposure	May cause respiratory irritation.
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Specific target organ toxicity – repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/injuries after inhalation : Corrosive to the respiratory tract.
Symptoms/injuries after skin contact : Burns.
Symptoms/injuries after eye contact : Corrosive to eyes.
Symptoms/injuries after ingestion : Burns of the upper digestive and respiratory tracts.

SECTION 12: Ecological information

12.1. Toxicity

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Acetic acid (64-19-7)	
LC50 fish 1	> 1000 mg/l
EC50 Daphnia 1	> 300 mg/l
EC50 other aquatic organisms 1	> 1000 mg/l waterflea
ErC50 (algae)	> 300 mg/l

Hydrogen peroxide (7722-84-1)	
LC50 fish 1	16.4 mg/l
EC50 Daphnia 1	2.4 mg/l
ErC50 (algae)	1.38 mg/l
NOEC chronic crustacea	0.63 mg/l

12.2. Persistence and degradability

peracetic acid (79-21-0)	
Persistence and degradability	Biodegradable. (OECD 301E method).

Acetic acid (64-19-7)	
Persistence and degradability	Readily biodegradable.

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

12.3. Bioaccumulative potential

Peracid Brite US	
Bioaccumulative potential	No bioaccumulation.

peracetic acid (79-21-0)	
Log Kow	-0.26 (20°C)
Bioaccumulative potential	Not established.

Acetic acid (64-19-7)	
Log Pow	-0.2
Bioaccumulative potential	No bioaccumulation.

Hydrogen peroxide (7722-84-1)	
Bioaccumulative potential	No bioaccumulation.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Ecology - waste materials : Collect all waste in suitable and labeled containers and dispose according to local legislation.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3109 Organic peroxide type F, liquid (peroxy acetic acid), 5.2 (8)
UN-No.(DOT) : UN3109
Proper Shipping Name (DOT) : Organic peroxide type F, liquid
peroxy acetic acid
Class (DOT) : 5.2 - Class 5.2 - Organic Peroxide 49 CFR 173.128
Subsidiary risk (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

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Hazard labels (DOT) : 5.2 - Organic peroxide
8 - Corrosive



DOT Packaging Non Bulk (49 CFR 173.xxx) : 225
DOT Packaging Bulk (49 CFR 173.xxx) : 225
DOT Symbols : G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102) : A61 - a. When used for purposes such as sterilization, inner packagings of peroxyacetic acid, stabilized, classified as UN 3107 Organic peroxide type E, liquid or UN 3109 Organic peroxide type F, liquid may be fitted with a vent consisting of hydrophobic membrane, provided:(1) Each inner packaging contains not more than 70 mL; (2) The inner packaging is designed so that the vent is not immersed in liquid in any orientation; (3) Each inner packaging is enclosed in an intermediate rigid plastic packaging with a small opening to permit release of gas and contains a buffer that neutralizes the contents of the inner packaging in the event of leakage; (4) Intermediate packagings are packed in a fiberboard box (4G) outer packaging; (5) Each outer packaging contains not more than 1.4 L of liquid; and (6) The rate of oxygen release from the outer packaging does not exceed 15 mL per hour.
IP5 - IBCs must have a device to allow venting. The inlet to the venting device must be located in the vapor space of the IBC under maximum filling conditions.
DOT Packaging Exceptions (49 CFR 173.xxx) : 152
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 10 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 25 L
DOT Vessel Stowage Location : D - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers or one passenger per each 3 m of overall vessel length, but the material is prohibited on passenger vessels in which the limiting number of passengers is exceeded.
DOT Vessel Stowage Other : 12 - Keep as cool as reasonably practicable, 25 - Protected from sources of heat, 52 - Stow "separated from" acids, 53 - Stow "separated from" alkaline compounds
Emergency Response Guide (ERG) Number : 145
Other information : No supplementary information available.

Transport by sea

Transport document description (IMDG) : UN 3109 ORGANIC PEROXIDE TYPE F, LIQUID (peroxy acetic acid), 5.2 (8), MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
UN-No. (IMDG) : 3109
Proper Shipping Name (IMDG) : ORGANIC PEROXIDE TYPE F, LIQUID
Class (IMDG) : 5.2 - Organic peroxides
Subsidiary risks (IMDG) : 8 - Corrosive substances

Air transport

Transport document description (IATA) : UN 3109 Organic peroxide type f, liquid (peroxy acetic acid), 5.2, ENVIRONMENTALLY HAZARDOUS
UN-No. (IATA) : 3109
Proper Shipping Name (IATA) : Organic peroxide type f, liquid
Class (IATA) : 5.2 - Organic Peroxides
Subsidiary hazards (IATA) : 8 - Corrosive substances

SECTION 15: Regulatory information

15.1. US Federal regulations

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peracetic acid (79-21-0)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	500 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	500 lb
Acetic acid (64-19-7)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
CERCLA RQ	5000 lb
Hydrogen peroxide (7722-84-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Not subject to reporting requirements of the United States SARA Section 313	
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

CANADA

peracetic acid (79-21-0)	
Listed on the Canadian DSL (Domestic Substances List)	
Acetic acid (64-19-7)	
Listed on the Canadian DSL (Domestic Substances List)	
Hydrogen peroxide (7722-84-1)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

National regulations

No additional information available

15.3. US State regulations

SECTION 16: Other information

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

Revision date	: 07/30/2019
Other information	: It is recommended to pass the information of this safety data sheet in an appropriate form to the users. Such information is actually the best of our knowledge and believes accurate as reliable. This information relates to the specific material designated and may not be valid in combination with other products. This safety data sheet is in compliance with 1907/2006/EEC. It is user's liabilities to take all necessary measures to meet local required laws and regulations. The producer is not responsible for any damage and loss due to the use of information mentioned in this safety data sheet.

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Full text of H-phrases:

H242	Heating may cause a fire.
H290	May be corrosive to metals
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

SDS US (GHS HazCom 2012)

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.