

PEROXYSAN-CX

Revision Date 09/10/2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

- Trade name PeroxySan-CX
- Synonyms Peracetic acid CH₃-
- Molecular formula COOOH

1.2 Relevant identified uses of the substance or mixture and uses advised against**Uses of the Substance / Mixture**

- Pesticide
- It is a violation of federal law to use this product in a manner inconsistent with its labeling.
- Contact your supplier for additional information

1.3 Details of the supplier of the safety data sheet**Company**

XGENEX LABS, LLC.
 130 Corridor Road
 Suite 1961,
 Ponte Vedra Beach, FL 32004
 USA
 Tel: +1-484-3567283;
 Fax: +1-713-5257804

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

SECTION 2: Hazards identification

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

2.1 Classification of the substance or mixture**HCS 2012 (29 CFR 1910.1200)**

- | | |
|---|--|
| Flammable liquids, Category 4 | H227: Combustible liquid. |
| Oxidizing liquids, Category 2 | H272: May intensify fire; oxidizer. |
| Corrosive to Metals, Category 1 | H290: May be corrosive to metals. |
| Acute toxicity, Category 4 | H302: Harmful if swallowed. |
| Acute toxicity, Category 4 | H332: Harmful if inhaled. |
| Acute toxicity, Category 4 | H312: Harmful in contact with skin. |
| Skin corrosion, Category 1B | H314: Causes severe skin burns and eye damage. |
| Serious eye damage, Category 1 | H318: Causes serious eye damage. |
| Specific target organ systemic toxicity - single exposure, Category 3 | H335: May cause respiratory irritation. (Respiratory system) |

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)**Pictogram****Signal Word**

- Danger

Hazard Statements

- H227 Combustible liquid.
- H272 May intensify fire; oxidizer.
- H290 May be corrosive to metals.
- H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.
- H314 Causes severe skin burns and eye damage.
- H335 May cause respiratory irritation.

Precautionary StatementsPrevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P220 Keep/Store away from clothing/ combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P234 Keep only in original container.
- P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
- 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 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Wash contaminated clothing before reuse.
- P363 Wash contaminated clothing before reuse.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
- P390 Absorb spillage to prevent material damage.

Storage

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P406 Store in corrosive resistant container with a resistant inner liner.

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards which do not result in classification

- H401: Toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

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SECTION 3: Composition/information on ingredients**3.1 Substance**

- Not applicable, this product is a mixture.

3.2 Mixture

- Synonyms Peracetic acid, Peroxyethanoic acid, PAA
- Formula CH₃-COOOH
- Chemical nature Mixture

Hazardous Ingredients and Impurities

Chemical name	Identification number CAS-No.	Concentration [%]
Hydrogen peroxide (H ₂ O ₂)	7722-84-1	>= 20 - < 25
Acetic acid	64-19-7	>= 10 - < 15
Ethaneperoxyoic acid	79-21-0	>= 5 - < 10
Alcohols, C9-11, ethoxylated	68439-46-3	>= 1 - < 3

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4: First aid measures**4.1 Description of first-aid measures****In case of inhalation**

- Move to fresh air.
- Oxygen or artificial respiration if needed.
- Victim to lie down in the recovery position, cover and keep him warm.
- Call a physician immediately.

In case of skin contact

- Take off contaminated clothing and shoes immediately.
- Wash off immediately with plenty of water.
- Keep warm and in a quiet place.
- Call a physician or poison control center immediately.
- Wash contaminated clothing before re-use.

In case of eye contact

- Call a physician or poison control center immediately.
- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- In the case of difficulty of opening the lids, administer an analgesic eye wash (oxybuprocaine).
- Take victim immediately to hospital.

In case of ingestion

- Call a physician or poison control center immediately.
- Take victim immediately to hospital.
- If swallowed, rinse mouth with water (only if the person is conscious).
- Do NOT induce vomiting.
- Artificial respiration and/or oxygen may be necessary.

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4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation

Symptoms

- Breathing difficulties
- Cough
- Chemical pneumonitis
- pulmonary edema

Effects

- Severe respiratory irritant

Repeated or prolonged exposure

- Nose bleeding
- Risk of chronic bronchitis

In case of skin contact

Symptoms

- Redness
- Swelling of tissue
- Burn

Effects

- Corrosive

In case of eye contact

Symptoms

- Redness
- Lachrymation
- Swelling of tissue
- Burn

Effects

- Corrosive
- May cause irreversible eye damage.

In case of ingestion

Symptoms

- Nausea
- Abdominal pain
- Bloody vomiting
- Diarrhea
- Suffocation
- Cough
- Severe shortness of breath

Effects

- If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.
- Risk of respiratory disorder

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

- Take victim immediately to hospital.
- Immediate medical attention is required.
- Consult with an ophthalmologist immediately in all cases.
- Burns must be treated by a physician.
- If swallowed
- Avoid gastric lavage (risk of perforation).
- Keep under medical supervision for at least 48 hours.

SECTION 5: Firefighting measures

Flash point 165 - 181 °F (74 - 83 °C)
Method: closed cup

Autoignition temperature No data available

Flammability / Explosive limit No data available

5.1 Extinguishing media**Suitable extinguishing media**

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

Unsuitable extinguishing media

- None.

5.2 Special hazards arising from the substance or mixture**Specific hazards during fire fighting**

- May cause fire or explosion; strong oxidizer.
- Oxygen released in thermal decomposition may support combustion

Hazardous combustion products:

- Oxygen

5.3 Advice for firefighters**Special protective equipment for fire-fighters**

- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.
- Wear chemical resistant oversuit
- Cool containers/tanks with water spray.
- Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures****Advice for non-emergency personnel**

- Evacuate personnel to safe areas.
- Keep people away from and upwind of spill/leak.

Advice for emergency responders

- Use personal protective equipment.
- Drying of this product on clothing or combustible materials may cause fire.
- Keep wetted with water.
- Prevent further leakage or spillage.
- Keep away from incompatible products

6.2 Environmental precautions

- Discharge into the environment must be avoided.
- Do not flush into surface water or sanitary sewer system.
- In case of accidental release or spill, immediately notify the appropriate authorities if required by Federal, State/Provincial and local laws and regulations.

6.3 Methods and materials for containment and cleaning up

- Dam up.
- Soak up with inert absorbent material.
- Do not let product enter drains.
- Keep in suitable, closed containers for disposal.
- Keep in properly labeled containers.

6.4 Reference to other sections

- Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

- Use only in well-ventilated areas.
- Before all operations, passivate the piping circuits and vessels according to the procedure recommended by the producer.
- Use only clean and dry utensils.
- Never return unused material to storage receptacle.
- May not get in touch with:
 - Organic materials
- Keep away from heat.
- Keep away from incompatible products

Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

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Technical measures/Storage conditions

- Store in original container.
- Keep tightly closed in a dry, cool and well-ventilated place.
- Keep in properly labeled containers.
- Keep in a contained area
- Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- Electrical equipment should be protected to the appropriate standard.
- Keep away from:
- Incompatible products
- OP Storage (Burning Rate) Type IV according to the BGV B4 test method

Packaging material**Suitable material**

- Stainless steel cleaned and passivated
- Approved grades of HDPE.

7.3 Specific end use(s)

- Contact your supplier for additional information

SECTION 8: Exposure controls/personal protection

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

8.1 Control parameters**Components with workplace occupational exposure limits**

Components	Value type	Value	Basis
Hydrogen peroxide (H ₂ O ₂)	TWA	1 ppm 1.4 mg/m ³	National Institute for Occupational Safety and Health
Hydrogen peroxide (H ₂ O ₂)	TWA	1 ppm	American Conference of Governmental Industrial Hygienists
Hydrogen peroxide (H ₂ O ₂)	TWA	1 ppm 1.4 mg/m ³	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
		The value in mg/m ³ is approximate.	
Hydrogen peroxide (H ₂ O ₂)	PEL	1 ppm 1.4 mg/m ³	
		Expressed as :H ₂ O ₂	
Acetic acid	TWA	10 ppm 25 mg/m ³	National Institute for Occupational Safety and Health
		Can be found in concentrations of 5-8% in vinegar	
Acetic acid	ST	15 ppm 37 mg/m ³	National Institute for Occupational Safety and Health
		Can be found in concentrations of 5-8% in vinegar	

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Acetic acid	TWA	10 ppm	American Conference of Governmental Industrial Hygienists
Acetic acid	STEL	15 ppm	American Conference of Governmental Industrial Hygienists
Acetic acid	TWA	10 ppm 25 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
		The value in mg/m3 is approximate.	
Acetic acid	PEL	10 ppm 25 mg/m3	
Acetic acid	STEL	15 ppm 37 mg/m3	
Acetic acid	C	40 ppm	
Ethaneperoxoic acid	STEL	0.4 ppm	American Conference of Governmental Industrial Hygienists
		Form of exposure : Inhalable fraction and vapor	

NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)

Components	CAS-No.	Concentration
Hydrogen peroxide (H2O2)	7722-84-1	75 ppm
Acetic acid	64-19-7	50 ppm

8.2 Exposure controls**Control measures****Engineering measures**

- Provide adequate ventilation.
- Apply technical measures to comply with the occupational exposure limits.

Individual protection measures**Respiratory protection**

- In case of insufficient ventilation, wear suitable respiratory equipment.
- Respirator with a vapor filter (EN 141)
- Recommended Filter type: ABEK-P2

Hand protection

- Impervious gloves
- Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Suitable material

- butyl-rubber
- Break through time: > 480 min
- Glove thickness: >= 0.4 mm

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Eye protection

- Chemical resistant goggles must be worn.
- If splashes are likely to occur, wear:
 - Tightly fitting safety goggles
 - Face-shield

Skin and body protection

- Apron/boots of butyl rubber if risk of splashing.

Hygiene measures

- Ensure that eyewash stations and safety showers are close to the workstation location.
- Take off contaminated clothing and shoes immediately.
- Wash contaminated clothing before re-use.
- When using do not eat, drink or smoke.
- Wash hands before breaks and at the end of workday.
- Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	<u>Physical state:</u> liquid <u>Color:</u> colorless
<u>Odor</u>	pungent
<u>Odor Threshold</u>	No data available
<u>pH</u>	< 2.0 <u>pKa:</u> 8.2 (77 °F (25 °C))
<u>Melting point/freezing point</u>	ca. -44 °F (-42 °C) Method: Calculation method
<u>Initial boiling point and boiling range</u>	ca. <u>Boiling point/boiling range:</u> 221 °F (105 °C) Method: Calculation method
<u>Flash point</u>	165 - 181 °F (74 - 83 °C) Method: closed cup
<u>Evaporation rate (Butylacetate = 1)</u>	No data available
<u>Flammability (solid, gas)</u>	Not applicable
<u>Flammability (liquids)</u>	The product is not flammable., Heating may cause a fire.
<u>Flammability / Explosive limit</u>	<u>Explosiveness:</u> Not explosive
<u>Autoignition temperature</u>	No data available

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<u>Vapor pressure</u>	ca. 24 mmHg (32 hPa) (77 °F (25 °C)) Method: Calculation method
<u>Vapor density</u>	No data available
<u>Density</u>	<u>Bulk density:</u> Not applicable
<u>Relative density</u>	1.1
<u>Solubility</u>	<u>Water solubility:</u> completely miscible <u>Solubility in other solvents:</u> common organic solvents : soluble Aromatic solvents : slightly soluble
<u>Partition coefficient: n-octanol/water</u>	log Pow: -1.25 Method: Calculation method log Pow: -0.52 Method: measured value
<u>Decomposition temperature</u>	>= 140 °F (>= 60 °C) Self-Accelerating decomposition temperature (SADT)
<u>Viscosity</u>	No data available
<u>Explosive properties</u>	No data available
<u>Oxidizing properties</u>	The substance or mixture is classified as oxidizing with the category 2. Oxidizer
9.2 Other information	
<u>Henry's Constant</u>	22 Pa.m ³ / mol not significant, Air, Volatility
<u>Corrosion of Metals</u>	Corrosive to metals

SECTION 10: Stability and reactivity**10.1 Reactivity**

- Decomposes on heating.
- Heating may cause a fire.
- Potential for exothermic hazard

10.2 Chemical stability

- Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

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- Contact with combustible material may cause fire.
- Contact with flammables may cause fire or explosions.
- Risk of explosion if heated under confinement.
- Fire or intense heat may cause violent rupture of packages.

10.4 Conditions to avoid

- Contamination
- To avoid thermal decomposition, do not overheat.

10.5 Incompatible materials

- Acids
- Bases
- Metals
- Heavy metal salts
- Powdered metal salts
- Reducing agents
- Organic materials
- Flammable materials

10.6 Hazardous decomposition products

- Oxygen

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Acute oral toxicity LD50 : 652 mg/kg - Rat
Test substance: 11,7 % PAA mixture

Acute inhalation toxicity LC50 - 4 h (dust/mist) 4 mg/l - Rat
Test substance: 5 % PAA mixture

Acute dermal toxicity LD50 Dermal 1,957 mg/kg - Rabbit
Test substance: 11,7 % PAA mixture

Acute toxicity (other routes of administration) No data available

Skin corrosion/irritation Rabbit
Causes burns.

Serious eye damage/eye irritation Rabbit
Causes serious eye damage.

Respiratory or skin sensitization Guinea pig
Did not cause sensitization on laboratory animals.

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Mutagenicity

Genotoxicity in vitro In vitro tests have shown mutagenic effects.

Genotoxicity in vivo Animal testing did not show any mutagenic effects.

Carcinogenicity No data available

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP
IARC
OSHA

Toxicity for reproduction and development

Toxicity to reproduction / fertility No toxicity to reproduction

Developmental Toxicity/Teratogenicity Rat
Test substance, 15 % PAA mixture, No effect observed on development,
Published data

STOT

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure The substance or mixture is not classified as specific target organ toxicant,
repeated exposure according to GHS criteria.

Ingestion 13 weeks - Rat
NOAEL: 0.75 mg/kg
Test substance: Peracetic acid

Oral 90-day - Mouse
NOAEL: 100 ppm
Test substance: Hydrogen peroxide

Inhalation 90-day - Rat
NOAEL: 7 ppm
Test substance: Hydrogen peroxide

Experience with human exposure

Experience with human exposure : Inhalation
No data available

Experience with human exposure : Ingestion
No data available

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CMR effects**Carcinogenicity**

Acetic acid

No evidence of carcinogenicity in animal studies.

Mutagenicity

Acetic acid

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Aspiration toxicity

Not applicable

Further information

No data available

SECTION 12: Ecological information**12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**LC50 - 96 h : 1.1 mg/l - *Lepomis macrochirus* (Bluegill sunfish)
Test substance: Peracetic acid**Acute toxicity to daphnia and other aquatic invertebrates**EC50 - 48 h : 0.73 mg/l - *Daphnia magna* (Water flea)
Test substance: Peracetic acid**Toxicity to aquatic plants**EC50 - 96 h : 0.16 mg/l - *Pseudokirchneriella subcapitata* (green algae)
Test substance: Peracetic acid**Toxicity to microorganisms**Test substance: Peracetic acid
No data available**Chronic toxicity to fish**NOEC: 0.00094 mg/l - 33 Days - *Danio rerio* (zebra fish)
Early-life Stage
Test substance: Peracetic acid**Chronic toxicity to daphnia and other aquatic invertebrates**Test substance: Peracetic acid
No data available**M-Factor**

Ethaneperoxyic acid

Acute aquatic toxicity = 1
Chronic aquatic toxicity = 10
(according to the Globally Harmonized System (GHS))

12.2 Persistence and degradability

Abiotic degradation No data available

Physical- and photo-chemical elimination No data available

Biodegradation

Biodegradability aerobic
Biodegradable

Effects on waste water treatment plants
Inhibitor

Method: Abiotic degradation

Degradability assessment

Hydrogen peroxide (H₂O₂) The product is considered to be rapidly degradable in the environment

Acetic acid The product is considered to be rapidly degradable in the environment

Ethaneperoxoic acid The product is considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential**Partition coefficient: n-octanol/water**

Hydrogen peroxide (H₂O₂) Not potentially bioaccumulable

Acetic acid Not potentially bioaccumulable

Ethaneperoxoic acid Not potentially bioaccumulable

Bioconcentration factor (BCF) Does not bioaccumulate.

12.4 Mobility in soil

Adsorption potential (Koc) Water
soluble
mobile

Soil/sediments
non-significant adsorption

Known distribution to environmental compartments

Hydrogen peroxide (H₂O₂) Ultimate destination of the product: Water

Ethaneperoxoic acid Ultimate destination of the product: Water

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12.5 Results of PBT and vPvB assessment This mixture contains no substance considered to be persistent, bioaccumulating, and toxic (PBT).
This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects**Ecotoxicity assessment**

Short-term (acute) aquatic hazard Information refers to the main ingredient.

Long-term (chronic) aquatic hazard Information refers to the main ingredient.

Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product Disposal**

- Contact manufacturer.
- Contact waste disposal services.
- In accordance with local and national regulations.

Advice on cleaning and disposal of packaging

- Empty containers.
- Clean container with water.
- Dispose of rinse water in accordance with local and national regulations.
- Where possible recycling is preferred to disposal or incineration.
- In accordance with local and national regulations.

SECTION 14: Transport information

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification. The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT

14.1 UN number	UN 3149
14.2 Proper shipping name	HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURES, STABILIZED
14.3 Transport hazard class	5.1
Subsidiary hazard class	8,
Label(s)	5.1, (8,)
14.4 Packing group	II
Packing group	140
ERG No	

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14.5 Environmental hazards
Marine pollutant YES
 Marine Pollutant

TDG

14.1 UN number UN 3149

14.2 Proper shipping name HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE
 STABILIZED

14.3 Transport hazard class 5.1
 Subsidiary hazard class 8
 Label(s) 5.1 (8)

14.4 Packing group
 Packing group II
 ERG No 140

14.5 Environmental hazards
Marine pollutant YES
 Marine Pollutant

NOM

14.1 UN number UN 3149

14.2 Proper shipping name HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE,
 STABILIZED

14.3 Transport hazard class 5.1
 Subsidiary hazard class 8
 Label(s) 5.1 (8)

14.4 Packing group
 Packing group II
 ERG No 140

14.5 Environmental hazards
Marine pollutant YES

IMDG

14.1 UN number UN 3149

14.2 Proper shipping name HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE,
 STABILIZED

14.3 Transport hazard class 5.1
 Subsidiary hazard class 8
 Label(s) 5.1 (8)

14.4 Packing group
 Packing group II

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14.5 Environmental hazards
Marine pollutant NO

14.6 Special precautions for user
EmS F-H , S-Q

For personal protection see section 8.

IATA

14.1 UN number UN 3149

14.2 Proper shipping name HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE
STABILIZED

14.3 Transport hazard class 5.1
Subsidiary hazard class: 8
Label(s): 5.1 (8)

14.4 Packing group
Packing group II

Packing instruction (cargo aircraft) 554
Max net qty / pkg 5.00 L
Packing instruction (passenger aircraft) 550
Max net qty / pkg 1.00 L

14.5 Environmental hazards YES

14.6 Special precautions for user
For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

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SECTION 15: Regulatory information**15.1 Notification status**

Inventory Information	Status
Mexico INSQ (INSQ)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- Listed on Inventory
United States TSCA Inventory	- Listed on Inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australia Inventory of Chemical Substances (AICS)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
EU. European Registration, Evaluation, Authorisation and Restriction of Chemical (REACH)	- When purchased from a European Solvay legal entity, this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of Europe, please contact your local representative for additional information.

15.2 Federal Regulations**US. EPA EPCRA SARA Title III****SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

Flammable (gases, aerosols, liquids, or solids)	Yes
Oxidizer (liquid, solid or gas)	Yes
Corrosive to Metals	Yes
Acute toxicity (any route of exposure)	Yes
Skin corrosion or irritation	Yes
Serious eye damage or eye irritation	Yes
Specific target organ toxicity (single or repeated exposure)	Yes

The categories not mentioned are not relevant for the product.

Section 313 Toxic Chemicals (40 CFR 372.65)

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

Components	CAS-No.	Concentration
Ethaneperoxoic acid	79-21-0	5- 10%

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Components	CAS-No.	Threshold planning quantity	Remarks
Hydrogen peroxide (H2O2)	7722-84-1	1000 lb	Form: >52-100%
Ethaneperoxy acid	79-21-0	500 lb	

Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)

Components	CAS-No.	Reportable quantity
Hydrogen peroxide (H2O2)	7722-84-1	1000 lb
Ethaneperoxy acid	79-21-0	500 lb

Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)

Components	CAS-No.	Reportable quantity
Hydrogen peroxide (H2O2)	7722-84-1	1000 lb
Ethaneperoxy acid	79-21-0	500 lb

US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)

Components	CAS-No.	Reportable quantity
Acetic acid	64-19-7	5000 lb

15.3 State Regulations**US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

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

SECTION 16: Other information**NFPA (National Fire Protection Association) - Classification**

Health	3 serious
Flammability	1 slight
Instability or Reactivity	2 moderate
Special Notices	OX Oxidizer

HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification

Health	3 serious
Flammability	1 slight
Reactivity	2 moderate
PPE	Determined by User; dependent on local conditions

Further information

- Product evaluated under the US GHS format.

Date Prepared: 09/10/2018

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

- C Ceiling
- PEL Permissible exposure limit
- ST STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

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PEROXYSAN-CX

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- STEL	Short term exposure limit
- TWA	8-hour, time-weighted average
- ACGIH	American Conference of Governmental Industrial Hygienists
- OSHA	Occupational Safety and Health Administration
- NTP	National Toxicology Program
- IARC	International Agency for Research on Cancer
- NIOSH	National Institute for Occupational Safety and Health

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.