

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

- Trade name ÚÒÙYÿÙÇÈÁËŠWÙ
- 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: +1-347-9837174

1.4 Emergency telephone

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 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.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Acute toxicity, Category 4	H312: Harmful in contact with skin.
Skin corrosion, Category 1A	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	H335: May cause respiratory irritation. (Respiratory system)
Category 3	

2.2 Label elements

HCS 2012 (29 CFR 1910.1200)
Pictogram

Signal Word

- Danger

Hazard Statements

- | | |
|---|--|
| <ul style="list-style-type: none"> - H227 - H272 - H302 + H312 - H314 - H318 - H335 | Combustible liquid.
May intensify fire; oxidizer.
Harmful if swallowed or in contact with skin.
Causes severe skin burns and eye damage.
Causes serious eye damage.
May cause respiratory irritation. |
|---|--|

Precautionary Statements
Prevention

- | | |
|--|---|
| <ul style="list-style-type: none"> - P210 - P220 - P221 - P261 - P264 - P270 - P271 - P280 | Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Keep/Store away from clothing/ combustible materials.
Take any precaution to avoid mixing with combustibles.
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/ protective clothing/ eye protection/ face protection. |
|--|---|

Response

- | | |
|--|---|
| <ul style="list-style-type: none"> - P301 + P312 + P330 - P301 + P330 + P331 - P303 + P361 + P353 - P304 + P340 + P310 - P305 + P351 + P338 + P310 - P363 - P370 + P378 | IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
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 or doctor/ physician.
Wash contaminated clothing before reuse.
In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction. |
|--|---|

Storage

- | | |
|--|--|
| <ul style="list-style-type: none"> - P403 + P233 - P403 + P235 - P405 | Store in a well-ventilated place. Keep container tightly closed.
Store in a well-ventilated place. Keep cool.
Store locked up. |
|--|--|

Disposal

- | | |
|--|---|
| <ul style="list-style-type: none"> - P501 | Dispose of contents/ container to an approved waste disposal plant. |
|--|---|

2.3 Other hazards which do not result in classification

- H400: Very toxic to aquatic life.
- H410: Very toxic to aquatic life with long lasting effects.

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

Hazardous Ingredients and Impurities

Chemical Name	Identification number CAS-No.	Concentration [%]
Hydrogen peroxide (H ₂ O ₂)	7722-84-1	23
Acetic acid	64-19-7	10
Ethaneperoxoic acid	79-21-0	5.3

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.

4.2 Most important symptoms and effects, both acute and delayed

In case of inhalation

Symptoms

PEROXYSAN X-PLUS

- Breathing difficulties
- Cough
- Chemical pneumonitis
- pulmonary edema

Effects

- Severe respiratory irritant
- Repeated or prolonged exposure***
- Nose bleeding
 - 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

- no data available

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.

- Prevent product from entering sewage system.
- Keep in suitable, closed containers for disposal.

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

Technical measures/Storage conditions

- Keep in properly labeled containers.
- Keep tightly closed in a dry, cool and well-ventilated place.
- Keep in a contained area
- Electrical equipment should be protected to the appropriate standard.
- Keep away from incompatible products

Packaging material

Suitable material

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

7.3 Specific end use(s)

- no data available

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

Ingredients	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.	
Acetic acid	TWA	10 ppm 25 mg/m ³	National Institute for Occupational Safety and Health
Acetic acid	ST	15 ppm 37 mg/m ³	National Institute for Occupational Safety and Health
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/m ³	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
		The value in mg/m ³ is approximate.	
Ethaneperoxyic 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)

Ingredients	CAS-No.	Concentration
Hydrogen peroxide (H ₂ O ₂)	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

Suitable material

- butyl-rubber

- Glove thickness

- Break through time:

- 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).

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/range</u>	ca. -44 °F (-42 °C) Method: Calculation method
<u>Boiling point/boiling range</u>	ca. 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
<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

PEROXYSAN X-PLUS

log Pow: -0.52
Method: measured value

Thermal decomposition

>= 140 °F (>= 60 °C)
Self-Accelerating decomposition temperature (SADT)

Viscosity

no data available

Explosive properties

no data available

Oxidizing properties

The substance or mixture is classified as oxidizing with the category 2.
Oxidizing

9.2 Other information**Henry's Constant**

22 Pa.m³ / mol
not significant, Air, Volatility

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

- no data available

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 : > 300 mg/kg - Rat
 Test substance: 5 % PAA mixture
 PROXITANE ® AHC

Acute inhalation toxicity

LC50 - 4 h (aerosol) 4,080 mg/m3 - Rat
 Test substance: 5 % PAA mixture

Acute dermal toxicity

LD50 1,147 mg/kg - Rabbit
 Test substance: 5 % PAA mixture

Acute toxicity (other routes of administration)

no data available

Skin corrosion/irritation

Rabbit
 Corrosive

Serious eye damage/eye irritation

Rabbit
 Risk of serious damage to eyes.

Respiratory or skin sensitization

Hydrogen peroxide (H2O2)

Does not cause skin sensitization.

Guinea pig
 Did not cause sensitization on laboratory animals.

Mutagenicity

Genotoxicity in vitro

In vitro tests did not show mutagenic effects

Genotoxicity in vivo

Animal testing did not show any mutagenic effects.

Carcinogenicity

Animal testing did not show any carcinogenic effects.

Ingredients	CAS-No.	Rating	Basis
Hydrogen peroxide (H2O2)	7722-84-1	Confirmed animal carcinogen with unknown relevance to humans	ACGIH

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

Rat
NOAEL F2: 30.4 mg/kg
fetotoxic effectRat , female
NOAEL F2: 12.5 mg/kg**Developmental Toxicity/Teratogenicity**

Acetic acid

Rat , female
Application Route: Oral
Method: according to a standardized method
Published dataMouse
No effect observed on development
Published dataRabbit
No effect observed on development
Published data**STOT****STOT-single exposure**Hydrogen peroxide (H₂O₂)

May cause respiratory irritation.

Acetic acid

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

Ethaneperoxyic acid

May cause respiratory irritation.

STOT-repeated exposureOral 13 Weeks - Rat
NOAEL: 0.75 mg/kg**Experience with human exposure****Experience with human exposure : Ingestion**

Acetic acid

On ingestion, may cause mucous membranes to bleed
Published data**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

Acetic acid

Not applicable, internal evaluation

Further information

no data available

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish

Hydrogen peroxide (H₂O₂)

LC50 - 96 h : 16.4 mg/l - Pimephales promelas (fathead minnow)

NOEC - 96 h : 4.3 mg/l - Pimephales promelas (fathead minnow)

Acetic acid

LC50 - 96 h : > 300 mg/l - Oncorhynchus mykiss (rainbow trout)
semi-static test
Analytical monitoring: no

Method: OECD Test Guideline 203
Not harmful to fish (LC50 > 100 mg/L)
Unpublished reports

Ethaneperoxoic acid

LC50 - 96 h : 1.1 mg/l - Lepomis macrochirus (Bluegill sunfish)

NOEC - 33 d : 0.00094 mg/l - Danio rerio (zebra fish)
Early-life Stage

Acute toxicity to daphnia and other aquatic invertebrates.

EC50 - 48 h : 0.73 mg/l - Daphnia magna (Water flea)
Test substance: Pure substance

Toxicity to aquatic plants

Hydrogen peroxide (H₂O₂)

EC50 - 72 h : 2.6 mg/l - Skeletonema costatum (marine diatom)
Growth rate

NOEC - 72 h : 0.63 mg/l - Skeletonema costatum (marine diatom)

Acetic acid

EC10 - 72 h : 300 mg/l - Skeletonema costatum
static test
Analytical monitoring: yes
Method: OECD Test Guideline 201
Growth rate
No adverse chronic effect observed up to and including the threshold of 1 mg / L.
Unpublished reports

ErC50 - 72 h : > 300 mg/l - Skeletonema costatum
static test
Method: OECD Test Guideline 201
Not harmful to algae (EC50 > 100 mg/L)
Unpublished reports

Ethaneperoxoic acid

EC50 - 96 h : 0.16 mg/l - Pseudokirchneriella subcapitata (green algae)

PEROXYSAN X-PLUS**Toxicity to microorganisms**

Acetic acid

static test

NOEC - 16 h : 1,150 mg/l - Pseudomonas putida
semi-static test
Analytical monitoring: no
Published data

Chronic toxicity to fish

LC50: 1.1 mg/l - 96 h - Lepomis macrochirus (Bluegill sunfish)
Test substance: Pure substance

NOEC: 0.00094 mg/l - 33 Days - Danio rerio (zebra fish)
Early-life Stage
Test substance: Pure substance

Chronic toxicity to daphnia and other aquatic invertebrates.Hydrogen peroxide (H₂O₂)

NOEC: 0.63 mg/l - 21 Days - Daphnia magna (Water flea)
Reproduction Test

12.2 Persistence and degradability**Abiotic degradation****Photodegradation**

Half-life (direct photolysis): ca. 2.6 Days
The product can be degraded by abiotic (e.g. chemical or photolytic) processes.
Medium
Air

Chemical degradation
Half-life (direct photolysis): ca. 120 h
Medium
Water

Degradat. indirect photolysis: < 99 %
Degrad. time indirect photolysis: 0.5 h
Test substance: 1 % solution
Chemical degradation
Medium
Soil

Biodegradation

PEROXYSAN X-PLUS

Biodegradability

aerobic
 Method: Closed Bottle test
 ca. 56 % - 28 Days
 Not biodegradable.

aerobic
 Method: ready biodegradability/MITI
 > 70 % - 28 Days
 Readily biodegradable.
 Conc. in standard unit mg / l: 2 mg/l

Effects on waste water treatment plants
 Inhibitor
 Conc. in standard unit mg / l: 90 mg/l

Effects on waste water treatment plants
 BOD increase of treated effluent by acetic acid formation

Degradability assessment

Acetic acid

The product is considered to be rapidly degradable in the environment

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water

Acetic acid

Not potentially bioaccumulable

Bioconcentration factor (BCF)

Does not bioaccumulate.
 Calculation method

12.4 Mobility in soil

Adsorption potential (Koc)

Water
 Solubility(ies)
 Mobility

Soil/sediments
 Log Koc: 0.63
 non-significant adsorption

Known distribution to environmental compartments

Acetic acid

Ultimate destination of the product: Water
 Structure-activity relationship (SAR)

Air
 Structure-activity relationship (SAR)

12.5 Results of PBT and vPvB assessment

Acetic acid

This substance is not considered to be persistent, bioaccumulating, and toxic (PBT).
 This substance is not considered to be very persistent and very bioaccumulating (vPvB).

PEROXYSAN X-PLUS

12.6 Other adverse effects no data available

Ecotoxicity assessment**Acute aquatic toxicity**

Acetic acid

Not harmful to aquatic life (LC/EC50 > 100 mg/L)

Chronic aquatic toxicity

Acetic acid

No adverse chronic effect observed up to and including the threshold of 1 mg / L.

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

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

Waste Code

- Environmental Protection Agency
- Hazardous Waste – YES

- RCRA Hazardous Waste (40 CFR 302)
- D001 - Ignitable waste – (I)

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	II
ERG No	140

P00000010299

Version : 1.0 / US (Z8)

PEROXYSAN X-PLUS

14.5 Environmental hazards
Marine pollutant NO

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 NO

NOM

no data available

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

14.5 Environmental hazards
Marine pollutant NO

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

For personal protection see section 8.

PEROXYSAN X-PLUS

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	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	NO
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.

SECTION 15: Regulatory information

15.1 Notification status

Inventory Information	Status
United States TSCA Inventory	- Listed on Inventory
Mexico INSQ (INSQ)	- In compliance with the inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- In compliance with the 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
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory



PEROXYSAN X-PLUS

15.2 Federal Regulations

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

Fire Hazard	yes
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	yes
Chronic Health Hazard	no

Section 313 Toxic Chemicals (40 CFR 372.65)

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

Ingredients	CAS-No.	Concentration
Ethaneperoxoic acid	79-21-0	5.3 %

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

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

Ingredients	CAS-No.	Threshold planning quantity	Remarks
Hydrogen peroxide (H ₂ O ₂)	7722-84-1	1000 lb	Form: >52-100%
Ethaneperoxoic acid	79-21-0	500 lb	

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

Ingredients	CAS-No.	Reportable quantity
Hydrogen peroxide (H ₂ O ₂)	7722-84-1	1000 lb
Ethaneperoxoic acid	79-21-0	500 lb

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

Ingredients	CAS-No.	Reportable quantity
Hydrogen peroxide (H ₂ O ₂)	7722-84-1	1000 lb
Ethaneperoxoic acid	79-21-0	500 lb

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

Ingredients	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.



PEROXYSAN X-PLUS

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

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

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

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

Further information

- Product evaluated under the US GHS format.

Date Prepared: 10/29/2018

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

- ST STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
- 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.

Revision Date: 4/20/2015