

OXYGERM

1. IDENTIFICATION

Product name : **OXYGERM**

Product code : **89-10115** **Other means of identification** : Not available.

Supplier : Sani-Marc Inc.
42 rue de l'Artisan
Victoriaville, Qc
G6P 7E3
1-819-758-1541

Manufacturer : Sani-Marc Inc.
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Identified uses : Industrial applications: Antimicrobial agent
Approved for use in Food & Beverage plants.

Uses advised against : This product is formulated to be diluted. Do not use undiluted. Read product label before using. This product is not intended for domestic use.

Date of issue (YYYY-MM-DD) : 2022-03-10

In case of emergency : **Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)**

2. HAZARDS IDENTIFICATION

Information in this section only concerns the product as supplied. Contact your account manager to get more information on diluted form hazards identification.

Product Classification : **OXIDIZING LIQUIDS - Category 3**
SKIN CORROSION - Category 1A
SERIOUS EYE DAMAGE - Category 1
Health Hazards Not Otherwise Classified - Category 1

Signal word : **Danger**

Hazard pictograms :



Hazard statements : May intensify fire; oxidizer.
Causes severe skin burns and eye damage.
Causes digestive tract burns.

Precautionary statements

Prevention : Wear protective gloves: < 1 hour (breakthrough time): Chemical-resistant, impervious gloves . Wear protective clothing: Recommended: safety apron. Wear eye or face protection: Recommended: splash goggles. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Wash thoroughly after handling.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. 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.

Storage : Store locked up.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : No additional information.

Other hazards which do not result in classification : None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

Name	CAS number	% (w/w)
hydrogen peroxide	7722-84-1	10 - 30
acetic acid	64-19-7	5 - 10
peracetic acid	79-21-0	1 - 5

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

Description of required first aid measures

Eye contact In case of contact with eyes, flush with fresh water. Check for and remove any contact lenses. Continue rinsing. If irritation persists, get medical attention. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists. Get medical advice/attention.

Skin contact Rinse with water. Wash contaminated skin with soap and water. Remove contaminated clothing and wash it before reuse. Chemical burns must be treated promptly by a physician. Get medical attention if blistering occurs or redness persists.

Ingestion Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Chemical burns must be treated promptly by a physician. Get medical attention if symptoms occur.

Inhalation Move victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Get medical attention if adverse health effects persist or are severe. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Eye contact Adverse symptoms may include the following:
pain
watering
redness

Skin contact Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion Adverse symptoms may include the following:
stomach pains

Inhalation Adverse symptoms may include the following:
respiratory tract irritation
coughing

Notes to physician Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

See toxicological information (Section 11)

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media None known.

Specific hazards arising from the chemical Oxidizing material. May intensify fire. In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special fire-fighting procedures Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Risk of explosion. If large quantities are involved in a major fire, evacuate the area. No action should be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum possible distance.

Special protective equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Initiate spill response procedures if required.
Personal protection	Put on appropriate personal protective equipment (see Section 8).
Cleaning method	Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See Section 8 for additional information on hygiene measures.
Storage and Incompatibility	Do not store above the following temperature: 30°C (86°F). Store in accordance with local regulations. Separate from alkalis. Separate from reducing agents and combustible materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Keep out of reach of children. Store away from incompatible materials (see Section 10).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Ingredient name	Exposure limits
Hydrogen peroxide	<p>CA Ontario Provincial (Canada, 1/2013). TWA: 1.4 mg/m³ 8 hours.</p> <p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 1 ppm 8 hours. 8 hrs OEL: 1.4 mg/m³ 8 hours.</p> <p>CA British Columbia Provincial (Canada, 5/2019). TWA: 1 ppm 8 hours.</p> <p>CA Ontario Provincial (Canada, 1/2018). TWA: 1 ppm 8 hours.</p> <p>CA Quebec Provincial (Canada, 1/2014). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 2 ppm 15 minutes. TWA: 1 ppm 8 hours.</p>
acetic acid	<p>CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 10 ppm 8 hours. 8 hrs OEL: 25 mg/m³ 8 hours. 15 min OEL: 37 mg/m³ 15 minutes. 15 min OEL: 15 ppm 15 minutes.</p> <p>CA British Columbia Provincial (Canada, 5/2019). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.</p> <p>CA Ontario Provincial (Canada, 1/2018). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.</p> <p>CA Quebec Provincial (Canada, 1/2014). TWA: 10 ppm 8 hours. TWA: 25 mg/m³ 8 hours. STEV: 15 ppm 15 minutes. STEV: 37 mg/m³ 15 minutes.</p> <p>CA Saskatchewan Provincial (Canada, 7/2013). STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.</p>
peracetic acid	<p>CA Ontario Provincial (Canada, 1/2018). STEL: 0.4 ppm 15 minutes. Form: Inhalable fraction and vapour.</p>

Appropriate engineering controls If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Eye/face protection	Continued or severe exposures might required to wear a face shield or chemical splash goggles. It is minimally suggested to wear safety glasses while using or handling this product.
Hands and Body protection	It is suggested to wear chemical-resistant gloves while using or handling this product. It is suggested to wear safety apron while using or handling this product.
Respiratory protection	Recommended: organic vapor (Type A) and acid gas (Type E) filter

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid.	pH	<1	Flash point	Closed cup: 83°C (181.4°F) [Not specified] [Product does not sustain combustion.]
Color	Colorless.	Relative density	1.1	Melting point	-25.9°C (-14.6°F)
Odor	Pungent. Vinegar-like	Viscosity	Not available.	Boiling point	99°C (210.2°F)
Odor threshold	Not available.	Vapor pressure	2.9 kPa (22 mm Hg)	Fire point	: Not available.
Solubility in water	: Not available.	Vapor density	: Not available.	Evaporation rate	: >1 (butyl acetate = 1)
Decomposition temperature	: Not available.	Auto-ignition temperature	: 270°C (518°F)		
Partition coefficient: n-octanol/water	: Not available.	Flammability (solid, gas)	: Highly flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, heat and combustible materials.		
Lower and upper explosive (flammable) limits	: Not available.				

10. STABILITY AND REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	The product is stable.
Incompatible materials	Reactive or incompatible with the following materials: combustible materials reducing materials Reactive or incompatible with alkali.
Conditions to avoid	No specific data.
Possibility of hazardous reactions	Hazardous reactions or instability may occur under certain conditions of storage or use. Conditions may include the following: contact with combustible materials Reactions may include the following: risk of causing or intensifying fire May cause an exothermic reaction in presence of alkali.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Route of exposure	Routes of entry anticipated: Dermal. Routes of entry not anticipated: Oral, Inhalation.	
	<u>Potential acute health effects</u>	<u>Symptoms</u>
Eye contact	May cause eye burn	Adverse symptoms may include the following: pain watering redness
Skin contact	May cause skin burns	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	Corrosive to the digestive tract. Causes burns. May cause burns to mouth, throat and stomach.	Adverse symptoms may include the following: stomach pains
Inhalation	Inhalation of vapors or mist may cause respiratory tract irritation.	Adverse symptoms may include the following: respiratory tract irritation coughing

Toxicity data

Product/ingredient name	Result	Species	Dose	Exposure

OXYGERM	LD50 Oral	Rat	1922 mg/kg	-
Hydrogen peroxide	LC50 Inhalation Vapor	Rat	2000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	4060 mg/kg	-
acetic acid	LD50 Oral	Rat	2000 mg/kg	-
	LC50 Inhalation Gas.	Mouse	5620 ppm	1 hours
	LC50 Inhalation Vapor	Rat	11000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	1.06 g/kg	-
peracetic acid	LD50 Oral	Rat	3310 mg/kg	-
	LC50 Inhalation Gas.	Rat	66 ppm	4 hours
	LC50 Inhalation Vapor	Rat	0.45 mg/l	4 hours
	LD50 Dermal	Rabbit	1410 mg/kg	-
	LD50 Oral	Rat	1540 mg/kg	-

Information on toxicological effects

Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.
Sensitization	Not available.
Carcinogenicity	No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Ecotoxicity data



Product/ingredient name	Result	Species	Exposure
OXYGERM	Acute EC50 0.18 mg/l	Algae - Selenastrum	120 hours
	Acute EC50 0.73 mg/l	Daphnia	48 hours
	Acute LC50 1.1 mg/l	Fish - Lepidochromis	96 hours
Hydrogen peroxide	Acute LC50 1.6 mg/l	Fish	96 hours
	Acute EC50 1.2 mg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	72 hours
	Acute EC50 5.38 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2320 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 93 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 989.7 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days
acetic acid	Acute EC50 73400 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 73900 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 65000 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 85.8 µl/L Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 75000 µg/l Fresh water	Fish - Lepomis macrochirus	96 hours
	Acute LC50 88000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
peracetic acid	Chronic NOEC 0.2 ppm Fresh water	Fish - Cyprinus carpio - Young	30 days

Persistence and degradability : Unknown **Bioaccumulative potential** : Unknown **Mobility in soil** : Unknown **Other adverse effects** : Unknown

13. DISPOSAL CONSIDERATIONS

Disposal methods Dispose content and container in accordance with local, regional and national regulation in force.

14. TRANSPORT INFORMATION

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	TDG Placard
TDG Classification	UN3149	UN3149 HYDROGEN PEROXYDE AND PEROXYACETIC ACID STABILISED MIXTURE	5.1 (8)	II	 
Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40-2.42 (Class 8), 2.23-2.25 (Class 5). Explosive Limit and Limited Quantity Index 0.5 Remarks Limited quantity index 0.5 L Additional information See shipping documents for specific information on DOT, IMDG or IATA					

15. REGULATORY INFORMATION

Canadian lists

Canadian NPRI The following components are listed: peracetic acid (and its salts)

CEPA Toxic substances None of the components are listed.

Canada inventory All components are listed or exempted.

International lists

United States Not determined.

16. OTHER INFORMATION

Hazardous Material Information System (U.S.A.)

Health Hazard	3
Fire Hazard	1
Reactivity	0
Personal Protection	H

Date of issue/Date of revision (YYYY-MM-DD) : 2022-03-10

Prepared by : Regulatory Affairs Department

Sani-Marc Inc.
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Victoriaville, Qc
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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.