



# BioDestroy

1. IDENTIFICATION	
Product name	<b>BioDestroy</b>
Product code	<b>09-10215</b>
Supplier	Sani-Marc Inc. 42 rue de l'Artisan Victoriaville, Qc G6P 7E3 1-819-758-1541
Manufacturer	Sani-Marc Inc. 42 rue de l'Artisan Victoriaville, Qc G6P 7E3 1-819-758-1541
Identified uses	Industrial applications: Biofilmicide Approved for use in Food & Beverage plants. DIN 02456141
Uses advised against	This product is formulated to be diluted. Do not use undiluted. Read product label before using.
Date of issue (YYYY-MM-DD)	2021-01-06
<b>In case of emergency : Emergency phone: CANUTEC (613) 996-6666 (Collect calls accepted)</b>	

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 digestive tract burns. Causes severe skin burns and eye damage.
<u>Precautionary statements</u>	
General	Corrosive material. Handle with care. Read label before use. Keep out of reach of children.
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Wash hands thoroughly after handling. Use only in a well-ventilated area. Specific protective equipment is suggested for this product. See section 8 for details. Do not breathe dust or mist.
Response	IF INHALED: Move person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. Rinse with water. IF IN EYES: Remove contact lenses, if present and easy to do. Continue rinsing. In any case of exposure, get medical attention if symptoms appear or are severe.
Storage	Store in an appropriate location.
Disposal	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 50.4% Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 50.4% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 50.4%
Other hazards which do not result in classification	None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture : Mixture

<u>Name</u>	<u>CAS number</u>	<u>% (w/w)</u>
hydrogen peroxide	7722-84-1	10 - 30
dodecylbenzenesulphonic acid	27176-87-0	10 - 30
acetic acid	64-19-7	5 - 10
peracetic acid	79-21-0	5 - 10
Alcohols, C12-15, ethoxylated	68131-39-5	1 - 5

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

### 4. FIRST AID MEASURES

#### Description of required first aid measures

<b>Eye contact</b>	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.
<b>Skin contact</b>	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.
<b>Ingestion</b>	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.
<b>Inhalation</b>	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

<b>Eye contact</b>	Adverse symptoms may include the following: pain watering redness
<b>Skin contact</b>	Adverse symptoms may include the following: pain or irritation redness blistering may occur
<b>Ingestion</b>	Adverse symptoms may include the following: stomach pains
<b>Inhalation</b>	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  
sulfur oxides

**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

<b>Personal precautions</b>	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.
<b>Personal protection</b>	Put on appropriate personal protective equipment (see Section 8).
<b>Cleaning method</b>	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

<b>Handling</b>	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.
<b>Storage and Incompatibility</b>	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	CA Ontario Provincial (Canada, 1/2013). TWA: 1.4 mg/m <sup>3</sup> 8 hours. CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 1 ppm 8 hours. 8 hrs OEL: 1.4 mg/m <sup>3</sup> 8 hours. CA British Columbia Provincial (Canada, 6/2017). TWA: 1 ppm 8 hours. CA Ontario Provincial (Canada, 7/2015). TWA: 1 ppm 8 hours. CA Quebec Provincial (Canada, 1/2014). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m <sup>3</sup> 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 2 ppm 15 minutes. TWA: 1 ppm 8 hours.
acetic acid	CA Alberta Provincial (Canada, 4/2009). 8 hrs OEL: 10 ppm 8 hours. 8 hrs OEL: 25 mg/m <sup>3</sup> 8 hours. 15 min OEL: 37 mg/m <sup>3</sup> 15 minutes. 15 min OEL: 15 ppm 15 minutes. CA British Columbia Provincial (Canada, 6/2017). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. CA Ontario Provincial (Canada, 7/2015). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. CA Quebec Provincial (Canada, 1/2014). TWA: 10 ppm 8 hours. TWA: 25 mg/m <sup>3</sup> 8 hours. STEL: 15 ppm 15 minutes. STEL: 37 mg/m <sup>3</sup> 15 minutes. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.
peracetic acid	ACGIH TLV (United States, 4/2014). STEL: 0.4 ppm 15 minutes. Form: Inhalable fraction and Vapor ACGIH TLV (United States, 3/2017). STEL: 0.4 ppm 15 minutes. Form: Inhalable fraction and vapor

**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

<b>Eye/face protection</b>	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.
<b>Hands and Body protection</b>	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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	Liquid. [Clear]	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) [room temperature]	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: Oral, Dermal, 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

hydrogen peroxide	LC50 Inhalation Vapor	Rat	2000 mg/m <sup>3</sup>	4 hours
Dodecylbenzenesulphonic acid (C12) acetic acid	LD50 Dermal	Rabbit	4060 mg/kg	-
	LD50 Oral	Rat	2000 mg/kg	-
	LD50 Oral	Rat	890 mg/kg	-
	LC50 Inhalation Gas.	Mouse	5620 ppm	1 hours
	LC50 Inhalation Vapor	Rat	11000 mg/m <sup>3</sup>	4 hours
peracetic acid	LD50 Dermal	Rabbit	1.06 g/kg	-
	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	-
Alcohols, C12-15, ethoxylated	LD50 Oral	Rat	1540 mg/kg	-
	LD50 Oral	Rat	2 g/kg	-
	LD50 Oral	Rat	1922 mg/kg	-
BioDestroy	LD50 Oral	Rat	1922 mg/kg	-

#### Information on toxicological effects

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

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity data



Product/ingredient name	Result	Species	Exposure
hydrogen peroxide	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
	Chronic NOEC 0.2 ppm Fresh water	Fish - Cyprinus carpio - Young	30 days
	Acute EC50 0.7 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 0.39 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
peracetic acid	Acute EC50 302 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 1 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Chronic NOEC 83 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Acute EC50 0.18 mg/l	Algae - Selenastrum	120 hours
Alcohols, C12-15, ethoxylated	Acute EC50 0.73 mg/l	Daphnia	48 hours
	Acute LC50 1.1 mg/l	Fish - Lepidochromis	96 hours
	Acute LC50 1.6 mg/l	Fish	96 hours
BioDestroy	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
	Acute LC50 1.6 mg/l	Fish	96 hours

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
<b>TDG Classification</b>	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).					
<b>Explosive Limit and Limited Quantity Index</b> 0.5					
<b>Remarks</b> Limited quantity index 0.5 L					
<b>Additional information</b>	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** All components are listed or exempted.

### 16. OTHER INFORMATION

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

Health Hazard	3
Fire Hazard	1
Reactivity	0
Personal Protection	H

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**Prepared by** : Regulatory Affairs Department  
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#### Notice to reader

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