

Material Safety Data Sheet

Material Name: DECON-SPORE® 200 Plus

ID: DS200-0397-01-01

DECON-SPORE 200 Plus®

Sterile Pharmaceutical Clean Room Formula

Peracetic Acid and Hydrogen Peroxide

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200
(Complies with Commission Directive 91/155/EEC amended by 2001/58/EC)



Veltek Associates, Inc.
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*** Section 1 - Chemical Product and Company Identification ***

Chemical Name: Peracetic Acid and Hydrogen Peroxide Mixture.

Product Use: Sterilant and disinfectant.

Manufacturer Information

Veltek Associates, Inc.
15 Lee Blvd.
Malvern, PA 19355-1234

Phone: 610-644-8335

Emergency # 24 Hr CHEMTREC U.S. (800) 424-9300

*** Section 2 - Hazards Identification ***

Emergency Overview

Corrosive. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system.
Harmful or fatal if swallowed.

Potential Health Effects: Eyes

Corrosive. Concentrate is severely irritating to the eyes and can cause eye burns and irreversible eye damage.

Potential Health Effects: Skin

Corrosive This product is severely irritating to the skin and can cause burns. May be fatal if absorbed through skin.

Potential Health Effects: Ingestion

Harmful or fatal if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Potential Health Effects: Inhalation

May be fatal if inhaled. This product is severely irritating to the respiratory system. Symptoms may include burning taste, sneezing, coughing and difficulty breathing.

Medical Conditions Aggravated by Exposure

Persons with asthma or lung problems may be more susceptible to the effects of inhalation of this product.

HMIS Ratings: Health: 3 Fire: 2 Physical Hazard: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

*** Section 3 - Composition / Information on Ingredients ***

CAS #	Component	Percent
7722-84-1	Hydrogen peroxide	20-50*
64-19-7	Acetic acid	5-10
79-21-0	Peroxyacetic acid	5-10

Component Information/Information on Non-Hazardous Components

This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).

This is a controlled product according to Canada's Controlled Product Regulation.

*Though the range is outside acceptable WHMIS limits, the range stated on this MSDS is the actual range within which this component varies between formulations of this product.

*** Section 4 - First Aid Measures ***

First Aid: Eyes

Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses.
Seek medical attention at once.

First Aid: Skin

Flush skin with plenty of water and wash well with soap and water. Remove contaminated clothing and launder clothing before reuse. Obtain medical attention.

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First Aid: Ingestion

Do not induce vomiting. Call a physician or poison control center immediately.

First Aid: Inhalation

If inhaled, immediately remove the affected person to fresh air. Call a physician immediately.

*** Section 5 - Fire Fighting Measures ***

General Fire Hazards

See Section 9 for Flammability Properties.

Oxidizing agent, may cause spontaneous ignition of combustible materials.

Hazardous Combustion Products

Oxygen, Oxides of Carbon.

Extinguishing Media

Water.

Specific Hazards Arising From the Chemical

Product decomposes and will release oxygen thereby adding to the hazard of a fire. Product should be kept cool and in a vented container to avoid explosion hazards.

Fire Fighting Equipment/Instructions

Firefighters should wear full protective clothing including self contained breathing apparatus.

NFPA Ratings: Health: 3 Fire: 2 Reactivity: 1

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

*** Section 6 - Accidental Release Measures ***

Containment Procedures

Stop the flow of material, if this is without risk. Remove sources of ignition.

Clean-Up Procedures

Ventilate the contaminated area. Use non-sparking tools when opening or closing containers. Rinse small amounts with copious amounts of water to drain where possible. For larger spills: Absorb spill with inert material. Shovel material into appropriate container for disposal. Thoroughly wash the area with water after a spill or leak clean-up.

Evacuation Procedures

Isolate area. Keep unnecessary personnel away.

Special Procedures

No additional information available.

*** Section 7 - Handling and Storage ***

Handling Procedures

Product bottles incorporate a vented cap; Do NOT invert bottles. Do not get this material in contact with skin or eyes and clothing. Do not reuse the empty container.

Storage Procedures

Manufacturer recommends storing above 40° F (4.4°C) and below 90° F (32.2°C). Keep the container tightly closed.

*** Section 8 - Exposure Controls / Personal Protection ***

A: Component Exposure Limits

Hydrogen peroxide (7722-84-1)

ACGIH: 1 ppm TWA

OSHA: 1 ppm TWA; 1.4 mg/m3 TWA

NIOSH: 1 ppm TWA; 1.4 mg/m3 TWA

Acetic acid (64-19-7)

ACGIH: 10 ppm TWA

15 ppm STEL

OSHA: 10 ppm TWA; 25 mg/m3 TWA

NIOSH: 10 ppm TWA; 25 mg/m3 TWA

15 ppm STEL; 37 mg/m3 STEL

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Engineering Controls

Use local exhaust ventilation.

PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment: Eyes/Face

Wear chemical goggles; face shield (if splashing is possible).

Personal Protective Equipment: Skin

Rubber gloves, those with protective cuff or gauntlet preferred.

Personal Protective Equipment: Respiratory

If ventilation is not sufficient to effectively prevent buildup of vapors, use appropriate NIOSH/MSHA respiratory protection.

Personal Protective Equipment: General

Eye wash fountain and emergency showers are recommended.

*** Section 9 - Physical & Chemical Properties ***

Appearance:	Colorless liquid with a sharp/pungent odor	Odor:	Sharp/ pungent
Physical State:	Liquid	pH:	2.5 (1%)
Vapor Pressure:	Not available	Vapor Density:	Not Available
Boiling Point:	200°F (93.3°C)	Melting Point:	Not available
Solubility (H2O):	Complete	Specific Gravity:	1.12
Evaporation Rate:	Not available	Octanol/H2O Coeff.:	Not available
Burning Rate:	Not Available	Auto Ignition:	Not Available

*** Section 10 - Chemical Stability & Reactivity Information ***

Chemical Stability

Stable under controlled conditions of handling and storage.

Chemical Stability: Conditions to Avoid

Do not mix with anything but water. This product is an OXIDIZING AGENT - avoid contact with organic material. Avoid contact with iron and copper. Do not mix with halogenated materials- may release toxic gases.

Incompatibility

Organic material, strong bases.

Hazardous Decomposition

Decomposition may yield oxygen, oxides of carbon.

Possibility of Hazardous Reactions

Minimal with controlled conditions.

*** Section 11 - Toxicological Information ***

Acute Dose Effects

A: General Product Information

Acute exposure may cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Causes irreversible eye damage. HARMFUL OR FATAL IF SWALLOWED.

B: Component Analysis - LD50/LC50

Hydrogen peroxide (7722-84-1)

Oral LD50 Rat: 1518 mg/kg

Acetic acid (64-19-7)

Inhalation LC50 Mouse: 5620 ppm/1H; Oral LD50 Rat: 3310 mg/kg; Dermal LD50 Rabbit: 1060 µL/kg

Peroxyacetic acid (79-21-0)

Oral LD50 Rat: 1540 µL/kg; Oral LD50 Mouse: 210 mg/kg; Dermal LD50 Rabbit: 1410 µL/kg

Carcinogenicity

A: General Product Information

No carcinogenicity data available for this product.

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B: Component Carcinogenicity

Hydrogen peroxide (7722-84-1)

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans

IARC: Monograph 71, 1999; Supplement 7, 1987; Monograph 36, 1985 (Group 3 (not classifiable))

Target Organ Effects

Can cause burns to the eyes with irreversible damage, skin, gastrointestinal tract and respiratory tract.

Other Toxicological Information

None identified.

*** Section 12 - Ecological Information ***

Ecotoxicity

A: General Product Information

No data available for this product.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity

Hydrogen peroxide (7722-84-1)

Test & Species

48 Hr LC50 carp

42 mg/L

Conditions

Acetic acid (64-19-7)

Test & Species

96 Hr LC50 fathead minnow

88 mg/L

Conditions

static

96 Hr LC50 bluegill sunfish

75 mg/L

24 Hr LC50 goldfish

423 mg/L

5 min EC50 Photobacterium phosphoreum

8.8 mg/L

15 min EC50 Photobacterium phosphoreum

8.8 mg/L

25 min EC50 Photobacterium phosphoreum

8.8 mg/L

*** Section 13 - Disposal Considerations ***

US EPA Waste Number & Descriptions

A: General Product Information

If discarded, this product is considered a RCRA corrosive waste, D002.

B: Component Waste Numbers

No EPA Waste Numbers are applicable for this product's components.

Disposal Instructions

Pesticide wastes are acutely hazardous. Contact a Pesticide or Environmental Control Agency. Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.

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*** Section 14 - Transportation Information ***

US DOT Information

Shipping Name: Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, stabilized)

UN #: UN3109 **Hazard Class:** 5.2 (8) **Packing Group:** II

Required Label(s): Organic Peroxide, Corrosive 8

TDG Information

Shipping Name: Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, stabilized)

UN #: UN3109 **Hazard Class:** 5.2 (8) **Packing Group:** II

Required Label(s): Organic Peroxide, Corrosive 8

IATA Information

Shipping Name: Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, stabilized)

UN #: UN3109 **Hazard Class:** 5.2 (8) **Packing Group:** II

Required Label(s): Organic Peroxide, Corrosive 8

IMDG Information

Shipping Name: Organic peroxide type F, liquid (Peroxyacetic Acid, Type F, stabilized)

UN #: UN3109 **Hazard Class:** 5.2 (8) **Packing Group:** II

Required Label(s): Organic Peroxide, Corrosive 8

*** Section 15 - Regulatory Information ***

US Federal Regulations

A: General Product Information

This is an EPA registered pesticide (EPA registration No. 1677-129-068959). It is a violation of Federal law to use this product in a manner inconsistent with the EPA registered label.

All components are on the U.S. EPA TSCA Inventory List.

B: Component Analysis

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65) and/or CERCLA (40 CFR 302.4).

Hydrogen peroxide (7722-84-1)

SARA 302: 1000 lb TPQ (concentration >52%)

Acetic acid (64-19-7)

CERCLA: 5000 lb final RQ; 2270 kg final RQ

Peroxyacetic acid (79-21-0)

SARA 302: 500 lb TPQ

SARA 313: 1.0 % de minimis concentration

State Regulations

A: General Product Information

State and Provincial regulations may apply. Check individual requirements.

B: Component Analysis - State

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	CA	MA	MN	NJ	PA	RI
Hydrogen peroxide	7722-84-1	Yes	Yes	Yes	Yes	Yes	Yes
Acetic acid	64-19-7	Yes	Yes	Yes	Yes	Yes	Yes
Peroxyacetic acid	79-21-0	No	Yes	No	Yes	Yes	Yes

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Canadian WHMIS Information

A: General Product Information

WHMIS Classification: Class C- Oxidizing Material, Class E- Corrosive Material.

B: Component Analysis - WHMIS IDL

The following components are identified under the Canadian Hazardous Products Act Ingredient Disclosure List:

Component	CAS #	Minimum Concentration
Hydrogen peroxide	7722-84-1	1 % (English Item 849, French Item 1365)
Acetic acid	64-19-7	1 % (English Item 6, French Item 51)
Peroxyacetic acid	79-21-0	1 % (English Item 1253, French Item 123)

Additional Regulatory Information

A: General Product Information

No additional information available.

B: Component Analysis - Inventory

Component	CAS #	TSCA	CAN	EEC
Hydrogen peroxide	7722-84-1	Yes	DSL	EINECS
Acetic acid	64-19-7	Yes	DSL	EINECS
Peroxyacetic acid	79-21-0	Yes	DSL	EINECS

*** Section 16 - Other Information ***

Other Information

No additional information available.

MSDS History

New MSDS: 3 January 2005.

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; CFR = Code of Federal Regulations; CNS = Central Nervous System; DSL = Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; EPA = Environmental Protection Agency; HEPA = High Efficiency Particulate Air filters; IARC = International Agency for Research on Cancer; LC50 = Lethal Concentration 50%; LD50 = Lethal Dose 50%; NIOSH = National Institute for Occupational Safety and Health; NJTSR = New Jersey Trade Secret Registry; NTP = National Toxicology Program; OSHA = Occupational Safety and Health Administration; PEL = Permissible Exposure Limit; RCRA = Resource Conservation and Recovery Act; SARA = Superfund Amendments and Reauthorization Act; STEL = Short Term Exposure Limit; TDG = Transport Dangerous Goods TSCA = Toxic Substance Control Act; TWA = Time Weighted Average; WHMIS = Workplace Hazardous Materials Information System.

This is the end of MSDS # DS200-0397-01-01