



SAFETY DATA SHEET

Product Name: Micro-Clean
SDS# 5026

Effective Date: June 1, 2015
Revision 1A

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1: IDENTIFICATION

Product Name: Micro-Clean
Synonyms: None
Registrations: N/A

1.2 COMPANY IDENTIFICATION

Manufactured By: Flo-Tec Inc.
2151 34th Way N.
Largo FL 33771
(727) 531-8796

1.3 EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Telephone Number:
CHEM-TREC 800-424-9300

2. COMPOSITION INFORMATION

Component	CAS #	Amount (%w/w)
Peroxyacetic Acid	79-21-0	<1.0
Hydrogen Peroxide	7722-84-1	35-45
Inert	NA	<15
Water	7732-18-5	Balance



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3. HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Appearance	Clear
Physical State	Liquid
Odor	Pungent
Hazards of Product	DANGER! OXIDIZER! Contact with organic materials may cause violent reaction. Causes eye and skin burns.
Routes of Entry	Skin contact, eye contact, inhalation, ingestion.

3.2 POTENTIAL HEALTH EFFECTS

Effects of Single Acute Overexposure

Inhalation	N/A
Eye Contact	N/A
Skin Contact	N/A
Skin Absorption	N/A
Swallowing	N/A

Chronic, Prolonged or Repeated Overexposure

3.3 POTENTIAL ENVIRONMENTAL EFFECTS: NA

4. FIRST AID PROCEDURES

4.1 INHALATION: Remove to fresh air. If breathing discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration. See medical doctor immediately. Mists and vapors can irritate nose, throat and



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lungs but will usually subside when exposure ceases.

- 4.2 EYE CONTACT: Immediately flush with water for at least 15 minutes, lifting upper and lower eyelids intermittently. Causes burns and may result in permanent injury to eyes including blindness. See a medical doctor immediately.
- 4.3 SKIN CONTACT: Remove contaminated clothing and thoroughly wash with soap and water. Wash affected with plenty of water and soap if available, for several minutes. Remove and clean contaminated clothing and shoes. Seek medical attention if irritation develops or persists. If irrigation occurs and persists, contact a physician.
- 4.4 INGESTION: Remove to fresh air. If breathing discomfort occurs and persists, see a medical doctor. If breathing has stopped, give artificial respiration. Give 3-4 glasses of water, but DO NOT induce vomiting. If vomiting occurs, give fluids again. Get medical attention to determine whether vomiting or evacuation of stomach is necessary. Do not give anything by mouth to an unconscious or convulsing person. See medical doctor immediately.
- 4.5 NOTES TO PHYSICIAN: This product can be corrosive to skin, eyes, and mucous membranes. Consideration should be given to careful endoscopy as stomach or esophageal burns, perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered.



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5. FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES: 83° F (PMCC)

5.2 EXTINGUISHING MEDIA: Water spray, carbon dioxide, foam.
Use media suitable for the material that is burning.

5.3 FIRE FIGHTING PROCEDURES: Move containers from area if it can be done safely. Cool fire-exposed containers with water from side. Use flooding quantities of water only. Use water spray to keep all containers cool. Fight fire from protected or removed distance. Chemical type extinguishers are not very effective. Use proper personal protective equipment and positive pressure self-contained breathing apparatus.

5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: As in any fire, wear NIOSH/MSHA approved, pressure-demand self-contained breathing apparatus and full protective gear.

5.5 UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

5.6 HAZARDOUS COMBUSTION PRODUCTS: Oxygen that supports combustion.

5.7 POLYMERIZATION: Will not occur.

5.8 STATIC DISCHARGE: N/A



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6. ACCIDENTAL RELEASE MEASURES

- 6.1 STEPS TO BE TAKEN IF MATERIAL IS SPILLED: Always approach spills from upwind. Small spills may be flushed to an approved sewer line with generous amounts of water (if approved by local and environmental agencies). For larger spills, dike well ahead of spill with non-reactive material such as sand. Spill may be neutralized with soda ash (sodium carbonate) broadcasted on surface. Use 1 to 1.5 lb. of soda ash for each gallon of spilled material. The resultant neutralized product will become carbon dioxide and water. Flush material with water and collect for disposal into plastic container. A flush to sewer may be allowed if approved by local authority. Dispose of in accordance with federal, state, or local laws. Combustible materials should be removed and/or rinsed with water to ensure all residual hydrogen peroxide is removed to the extent possible.
- 6.2 PERSONAL PRECAUTIONS: Approach spills upwind. Wear special protective clothing and self-contained breathing apparatus with appropriate gas/acid cartridges.
- 6.3 ENVIRONMENTAL PRECUTIONS: Do not allow undiluted material to enter storm or sanitary sewer systems. Dispose in accordance with state, local and federal laws.
- 6.4 OTHER PRECAUTIONS: Combustible material, such as cloth, wood or paper, exposed to hydrogen peroxide, an ingredient in this product, should be



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submerged in, or rinsed with large amounts of water immediately to ensure H₂O₂ is neutralized. Failure to do this can result in fire.

7. HANDLING AND STORAGE

General Handling	Store drums in upright position only. Transfer product from drums to process in a closed system, if possible use exhaust ventilation. Empty drums as thoroughly as possible. Triple rinse before disposal. Never return product to original container. Containers should be properly ventilated.
Ventilation	Always handle product in a well ventilated area.
Storage	Do not store near reducing agents, fuels, organic material, or other non-compatible materials. Store in cool, dry, well ventilated area. Avoid temperatures that would allow the liquid bulk temperature to rise above 86° F, as slow decay of the active ingredients will occur. DO NOT STORE IN DIRECT SUNLIGHT, or near sources of ignition or heat. Use first in, first out storage management. Containers must be vented. Storage temperature range 5-30° C; protect from freezing.
Other Precautions	N/A



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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 EXPOSURE LIMITS:

Hydrogen Peroxide	ACGIH	1 ppm (TWA)
	OSHA	1 ppm (PEL)

**All TWAs are for an 8-hour period; All STELs are for 15 minutes unless specifically noted as being another time period.*

8.2 PERSONAL PROTECTION:

EYES & FACE:

Use cup type chemical goggles or face shield.

SKIN:

Use synthetic apron and protective clothing and other protective equipment as necessary to prevent skin contact. Thoroughly wash the outside of gloves and protective clothing with soap and water before removing.

RESPIRATORY:

For normal use as directed, respiratory protection is not required. If handling concentrate product or when mists are generated use approved acid/gas cartridge or canister filter mask if discomfort occurs. If breakthrough occurs, then use self-contained breathing apparatus.

PROTECTIVE CLOTHING:

Heavy rubber or vinyl gloves. Rubber boots, vinyl or rubber protective suit to protect skin and clothing contact.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: Colorless.

Odor: Sharp, Pungent, vinegar-like odor.

Vapor Pressure: 3.1 kPa @ 20° C

Boiling Point: 108° C

Specific Gravity (H₂O=1): 1.2

Freezing Point: N/A

Solubility in Water: Soluble

pH: N/A

10. STABILITY AND REACTIVITY

10.1 STABILITY/INSTABILITY

Stability:

Stable (expected shelf-life one year, when stored at temperatures <86° F.

Conditions to Avoid:

Open flames, elevated temperatures, any source of heat, combustibles such as paper, wood, or leather.



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Incompatible Materials:

Dirt, alkali (lye), organics, paper, wood, leather, and all metals except aluminum and stainless steel.

Thermal Decomposition:

Temperatures above 86° F will degrade product, accelerating decomposition.

10.2 HAZARDOUS POLYMERIZATION or DECOMPOSITION:

Degrades giving off acetic acid and oxygen that supports combustion.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: Hydrogen peroxide IARC Listed, ACGIH Listed A3, Animal Carcinogen.

ACUTE HEALTH EFFECTS (Hydrogen Peroxide)

Eyes: Corrosive to eyes. Severe irritant.

Skin: Severe irritant.

Dermal: N/A

Inhalation: No data for available for this product.

Ingestion: Oral LD50,4000 mg/kg (mouse)

SENSITIZATION (ANIMAL AND HUMAN STUDIES):



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No known significant effects.

DEVELOPMENTAL TOXICITY: No known significant effects.

CHRONIC TOXICITY AND CARCINOGENICITY:
No known significant effects.

TOXICOLOGY DATA:

Hydrogen peroxide: LD50 Oral, 500 mg/kg, rat

Peracetic acid: LD50 Oral, 210 mg/kg, mouse
LD50 Dermal, >12,000 mg/kg, rat

12. ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL FATE: N/A

12.2 ECOTOXICITY: N/A

12.3 FURTHER INFORMATION: N/A

13. DISPOSAL CONSIDERATIONS

13.1 WASTE DISPOSAL:

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with waterways, drains, and sewers. Disposal of this product should comply with the requirements of the local, state, or regional environmental authority.



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14. TRANSPORT INFORMATION

14.1 U.S.D.O.T.

NON-BULK

Proper Shipping Name:

Hydrogen Peroxide, Aqueous Solutions with not less than 20% but not more than 40% Hydrogen Peroxide (stabilized as necessary); 5.1 (8), UN2014, PGII

BULK

Proper Shipping Name:

Hydrogen Peroxide, Aqueous Solutions with not less than 20% but not more than 40% Hydrogen Peroxide (stabilized as necessary); 5.1 (8), UN2014, PGII

15. REGULATORY INFORMATION

REPORTABLE QUANTITY:

Hydrogen Peroxide 20-60% ,RQ= 1 lbs.

Peracetic Acid 5% (Unlisted), RQ=300 lbs.,
Ignitability (D001), Corrosivity (D002)

HMIS (Hazardous Materials Identification System)

Health 3, Flammability 0, Reactivity 1

NFPA (National Fire Protection Association)

Health 3, Flammability 0, Reactivity 1, Special OX



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16. OTHER INFORMATION

16.1 ADDITIONAL INFORMATION: N/A

Additional information about this product may be obtained by calling Flo-Tec Inc. at 800-335-6832 or 727-531-8796.

16.2 HAZARDOUS RATING SYSTEM

WHMIS: Class C: Oxidizing material. Class E: Corrosive
This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations*.

These ratings are part of a specific hazard communication program and should be disregarded where individuals are not trained in the use of this hazard rating system. You should be familiar with the hazard communication programs applicable to your workplace.

16.3 RECOMMENDED USES AND RESTRICTIONS

FOR INDUSTRIAL USE ONLY

A partial list of examples include food safety, agricultural, nursery, water treatment, irrigation, etc.

Disclaimer: Terms and Conditions: This MSDS (SDS) is designed only as guidance for the product which it applies. To the greatest extent permitted by applicable law, nothing contained herein creates any legal obligation including contractual obligations, expressed or implied warranties, including any warranties of merchantability of fitness for particular purpose; or confers any intellectual property rights, including rights to use trademarks or a license to use patents, issued or pending. The information contained herein is based on a manufacturer's own study and the work of others, and is subject to change at any time without further notice. There is no warranty, expressed or implied, as to the accuracy, completeness or adequacy of the information contained herein, and neither the provider nor manufacturer (nor agents, directors, officers, contractors or employees of either) are liable to any party for the damages of any nature, including direct, special or consequential damages arising out of or in connection with accuracy, completeness, adequacy or furnishing of any information in the MSDS (SDS), or in any other way related (directly or indirectly) to this MSDS (SDS). The receipt and use of this information constitutes consent to these terms and conditions.