

SAFETY DATA SHEET

Date issued : 10/17/2018

SDS number : Triple S_Synersys Sporidical Disinfectant

Date revised : 12/22/2021

Revision number : 1

Synersys Sporidical Disinfectant Cleaner PART A

1. Identification

Product identifier: Synersys Sporidical Disinfectant Cleaner PART A

Product description: Disinfectant

Chemical family: Peracetic acid/Hydrogen Peroxide Blend

Relevant identified uses: Hospital Disinfectant

Distributor

Triple S
98 Spit Brook Road
Nashua, NH 03062
<http://www.triple-s.com>

Customer Service: 978-667-7900

EPA reg. No.: 12120-4

Emergency telephone number (24 hour)

888-779-1339

2. Hazard identification

Classification of the substance or mixture

Health hazards:

Skin Corrosion, Category 1
Serious Eye Damage, Category 1
Acute Toxicity (Oral), Category 4

Physical hazards:

Organic Peroxides, Type F

Label elements



Corrosion



Flame



Exclamation
mark

Signal word: DANGER

Hazard statement(s)

H314: Causes severe skin burns and eye damage.

H302: Harmful if swallowed.

H242: Heating may cause a fire.

Precautionary statement(s)

Prevention:

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P261: Avoid breathing fume, gas, mist, vapors, or spray.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220: Keep away from clothing and other combustible materials.

P234: Keep only in original packaging.

P273: Avoid release to the environment.

Response:

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a POISON CENTER or doctor/physician.

P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P311: Call a POISON CENTER or doctor/physician.

P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P363: Wash contaminated clothing before reuse.

P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage:

P405: Store locked up.

P411+P235: Store at temperatures not exceeding 30°C/86°F. Keep cool.

P410+P403: Protect from sunlight. Store in a well-ventilated place.

P420: Store separately.

Disposal:

P501: Dispose of contents/container according to all local, state and Federal regulations.

Emergency overview

Physical appearance: Clear Liquid

Immediate concerns: Causes irreversible eye damage and skin burns.

Potential health effects

Eye: Corrosive, contact causes severe eye burns.

Skin: Corrosive, causes skin burning.

Skin absorption: Not Established

Ingestion: Harmful if swallowed.

Inhalation: Vapors are irritating to eyes and respiratory tract.

Reproductive toxicity

Reproductive toxicity: No known significant effects or critical hazards.

Teratogenic effects: No known significant effects or critical hazards.

Carcinogenicity:

The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans). The American Conference of Governmental Industrial Hygienists (ACGIH) has concluded that hydrogen peroxide is a 'Confirmed Animal Carcinogen with Unknown Relevance to Humans' (A3).

Mutagenicity: No known significant effects or critical hazards.

Routes of entry: Eye, skin, ingestion, Inhalation.

Cancer statement: None

Sensitization: No known significant effects or critical hazards.

Warning caution labels: Corrosive

3. Composition/information on ingredients

Chemical name	% w/w	CAS No.
Ethaneperoxoic acid	5 - 6	79-21-0
Hydrogen Peroxide	24 - 29	7722-84-1
Acetic Acid	5 - 7	64-19-7
Sulfuric Acid	< 1	7664-93-9
Water	55 - 75	7732-18-5

4. First-aid measures

Eye: Immediately flush eyes with water for at least 15 minutes, while holding eyelids open. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Seek medical attention immediately.

Skin: Remove contaminated clothing. Immediately flush with water followed by washing with mild soap. Seek medical attention.

Ingestion: Get immediate medical attention. Do not induce vomiting unless instructed to do so by poison center or physician.

Inhalation: Remove victim to fresh air and monitor. Seek medical advise if irritation persists.

Most important symptoms and effects, both acute and delayed

Eye: Severe burning sensation, damage marked by burns.

Skin: Burning sensation, redness, swelling and possible blistering.

Skin absorption: Not Established

Ingestion: Irritation of mouth, throat, along with upset stomach, vomiting.

Inhalation: Irritation of nose, throat and lungs with coughing, sneezing, possible difficulty breathing.

Acute effects: Corrosive to eyes and skin. Harmful if inhaled. Harmful if swallowed

Indication of immediate medical attention and special treatment needed, if necessary: Probable mucosal damage may contraindicate the use of gastric lavage.

5. Fire-fighting measures

Flammable class: IIIA (140-200F)

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

Hazardous combustion products: Not Established

Other considerations: Although not flammable, this product, when exposed to high temperatures or fire, can contribute oxygen and intensify a surrounding fire.

Explosion hazards: None

Fire fighting procedures: Keep fire exposed containers cool with water stream or mist.

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

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

6. Accidental release measures

Small spill: Shut off any ignition sources. Avoid runoff into storm sewers and ditches which lead to waterways.

Large spill: Shut off all ignition sources. Ventilate area. Avoid walking in material. Prevent product from entering into stream, soil, storm sewer or other bodies of water.

Environmental precautions

Water spill: Avoid discharges into open waterways and notify your local emergency services if this occurs.

Land spill: Avoid discharge to soil.

Air spill: NA = Not Applicable

General procedures: Isolate spill or leak area immediately. Keep unauthorized personnel away. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, or confined areas. Absorb with dry earth, sand or other non-combustible material and transfer to containers.

Release notes: Combustible materials, such as cardboard, wood or paper, exposed to hydrogen peroxide, an ingredient in this product, should be immediately submerged in, or rinsed with, large quantities of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabric, cotton, leather, wood or other combustibles can cause the material to ignite and result in fire.

Special protective equipment: Eye protection, rubber gloves, rubber boots to protect feet.

7. Handling and storage

General procedures: Store away from excessive heat, spark or open flame. Do not store near flammable materials. Store at temperatures below 86°F. Keep container closed until used. Product should be stored on plastic surfaces. Do not contaminate water, food, or feed by storage or disposal.

Precautions for safe handling: Wear chemical resistant rubber or neoprene gloves and eye safety goggles/full face shield when handling.

Conditions for safe storage: Store in closed container away from heat, spark or open flame. Do not store near reducing agents, fuels or other non-compatible materials. For quality purposes, avoid temperatures above 86°F. Higher temperatures will accelerate decomposition resulting in a loss of activity. Do not store in direct sunlight, or near sources of ignition. Do not double stack.

Storage temperature: (40°F) Minimum to (86°F) Maximum

Storage pressure: Store at ambient atmospheric pressure.

Shelf life: Expected shelf life is 1 year under controlled temperature storage.

Comments: Combustible materials, such as cardboard, wood or paper, exposed to hydrogen peroxide, an ingredient in this product, should be immediately submerged in, or rinsed with, large quantities of water to ensure that all hydrogen peroxide is removed. Residual hydrogen peroxide that is allowed to dry (upon evaporation hydrogen peroxide can concentrate) on organic materials such as paper, fabric, cotton, leather, wood or other combustibles can cause the material to ignite and result in fire.

8. Exposure controls/personal protection

Exposure controls

Control parameters				
Occupational exposure limit values				
Chemical name	Type		ppm	mg/m ³
Hydrogen Peroxide	OSHA PEL	TWA	1	1.4
	ACGIH TLV	TWA	1	1.4
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Acetic Acid	OSHA PEL	TWA	10	25
	ACGIH TLV	TWA	10	25
		STEL	15	37
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL
Sulfuric Acid	OSHA PEL	TWA		1
	ACGIH TLV	TWA		0.2
		STEL		3
	Supplier OEL	TWA	NL	NL
		STEL	NL	NL

Appropriate engineering controls: Provide mechanical ventilation when used in confined areas, or areas with poor ventilation.

Individual protection measures, such as personal protective equipment

Eye / face protection: Chemical splash goggles and full face-shield.

Skin protection - hand protection: Rubber or other chemical resistant gloves.

Respiratory protection: A respirator is not needed under normal and intended conditions of product use.

Skin protection - other: Chemical resistant outerwear (tyvek) if contact with spray or mist is anticipated.

Occupational hygiene practices: Wash with soap and water after handling. Do not eat, drink or smoke while using product.

9. Physical and chemical properties

Physical state: Liquid

Color: Water Clear

Odor: Pungent

Odor threshold: Not Established

pH: > 1.0

Melting point: NA = Not Applicable

Freezing point: 32° F; 0° C

Initial boiling point and boiling range: 212° F; 100° C

Flash point: 83°C (181.4°F) Penske-Martin Closed Cup (PMCC)

Evaporation rate (n-butyl acetate = 1): (Water =1) 1.0

Lower explosion limit / flammability limit: Not established

Upper explosion limit / flammability limit: Not established

Vapor pressure: ~ 22 mm Hg at 25°C (77°F)

Relative vapor density: Not Established

Density: ~ 9.51 at 20°C (68°F)

Relative density: 1.14 grams/ml. at 25°C (68°F)

Solubility: Complete

Auto-ignition temperature: Not Established

Decomposition temperature: > 55°C

Viscosity: Water thin.

Percent volatiles: >90

VOC content: ≤ 13 % by weight

10. Stability and reactivity

Reactivity: Stable

Dangerous polymerization: Will not occur.

Chemical stability: Stable under normal storage and use conditions.

Conditions to avoid: May react violently with strong alkalis. Open flames, elevated temperatures, any source of heat, combustibles such as paper and wood and contamination.

Possibility of hazardous reactions: Reacts violently with strong alkaline materials.

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Elevated temperatures (above 86F) can release oxygen that supports combustion and acetic acid vapors.

Incompatible materials: Strong alkalis, reducing agents, chlorine Bleach, dirt, organic materials e.g. cellulose materials, dirt.

11. Toxicological information

Acute toxicity

Chemical name	LD ₅₀ (oral) mg/kg(rat)	LD ₅₀ (dermal) mg/kg(rabbit)	LC ₅₀ (inhalation) mg/l
Ethaneperoxoic acid	1922 mg/kg (rat)	> 200 mg/kg (rabbit)	> 4000 mg/m3 (rat)
Hydrogen Peroxide	> 2000 mg/kg (rat)	> 2000 mg/kg (rabbit)	
Acetic Acid	3200 to 5600 mg/kg (rat)	1100 mg/kg (rat)	> 16000 mg/l (rat)

Acute dermal toxicity LD₅₀: > 2000 mg/m3

Notes: 17% peracetic acid

Acute oral toxicity LD₅₀: ~ 1922 mg/kg Rat

Acute inhalation toxicity LC₅₀: Not Established

Notes: 5% peracetic acid: >4,000 mg/m (4hr)(rat)

Skin corrosion / irritation: Corrosive

Serious eye damage / irritation: Irritant

Respiratory or skin sensitization: Not Established

Germ cell mutagenicity: No known significant effects or critical hazards.

Carcinogenicity

Chemical name	IARC
Hydrogen Peroxide	Group 3 - Not classifiable as to its carcinogenicity to Humans

IARC:

The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity to humans).

Reproductive toxicity: No known significant effects or critical hazards.

Specific Target Organ Toxicity - single exposure: No known significant effects or critical hazards.

12. Ecological information

Ecotoxicological information: Not Established

Aquatic toxicity, both acute and chronic

96-hour LC₅₀: 1.6 mg/L, (Rainbow trout)

48-hour EC₅₀: 0.73 mg/l (daphnia magna)

Persistence and degradability: Not Established

Bioaccumulative potential: Not Established

Other adverse effects: Not Established

Mobility in soil: Not Established

13. Disposal considerations

Disposal methods: Attempt to use product completely in accordance with intended use. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

For large spills: Consult with local and state authorities for large volume disposal.

Product disposal: Any method in accordance with local, state, and federal laws. Best method is to recycle or reuse for intended purpose.

Empty container: Non-Refillable Container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Drain for 10 seconds after the flow begins to drip. Follow Pesticide Disposal instructions for rinsate disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose in a sanitary landfill, or by incineration.

RCRA/EPA waste information: Corrosive

RCRA hazard class: D002

14. Transport information

USA Department of Transport Regulations (DOT)

UN proper shipping name: Organic Peroxide Type F, Liquid

Technical name: Peroxyacetic Acid, Type F, Stabilized

Transport hazard class(es): 5.2

Secondary hazard class/division: 8

UN number: 3109

Packing group, if applicable: II

NAERG: 145

Placards: Organic Peroxide, Corrosive

Hazard label: Organic Peroxide, Corrosive

ICAO - air

UN proper shipping name: Contact manufacturer for more information.

IMDG - sea

UN proper shipping name: Contact manufacturer for more information.

15. Regulatory information

UNITED STATES

Dot label symbol and hazard classification



Corrosive



Organic Peroxide

SARA Section 311/312 Hazard Categories

311/312 Health hazards: Health Hazard - Acute; Reactivity hazard; Fire Hazard

EPCRA Section 313 Toxic Chemicals

Chemical name	% w/w	CAS No.
Ethaneperoxoic acid	5 - 6	79-21-0

CERCLA Hazardous Substances and Reportable Quantities (RQ)

CERCLA regulatory: Not Established

Chemical name	% w/w	CERCLA rq
Ethaneperoxoic acid	5 - 6	100 lbs.
Acetic Acid	5 - 7	5,000 lbs.
Sulfuric Acid	< 1	1,000 lbs.

CERCLA rq: Not Established

TSCA (The Toxic Substances Control Act)

TSCA regulatory: All ingredients are listed on the TSCA Chemical Inventory.

States with special requirements

Chemical name	Requirements
Ethaneperoxoic acid	Pennsylvania Right to Know Substance New Jersey Right To Know Substance Massachusetts Right to Know Substance
Hydrogen Peroxide	Massachusetts Right to Know Substance New Jersey Right To Know Substance New York Right to Know Substance Pennsylvania Right to Know Substance
Acetic Acid	Pennsylvania Right to Know Substance New Jersey Right To Know Substance

California Proposition 65: No listed substance

RCRA status: Not Established

Carcinogen: The International Agency for Research on Cancer (IARC) has concluded that there is inadequate evidence for carcinogenicity of hydrogen peroxide in humans, but limited evidence in experimental animals (Group 3 - not classifiable as to its carcinogenicity in humans).

16. Other information

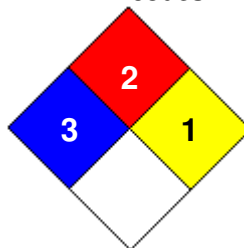
Prepared by: Regulatory Affairs Department **Date revised:** 12/22/2021

Revision summary: This SDS replaces the 12/16/2015 SDS. Revised: **Section 2:** Classification of the substance or mixture.

HMIS rating

Health		3
Flammability		2
Physical hazard		1
Personal protection	D	

NFPA codes



Manufacturer disclaimer: This company cannot anticipate all conditions of handling and use of this product. Therefore, this company accepts no responsibility for results obtained by the application of this information, or the safety and suitability of the product either alone or in combination with other products. It is the responsibility of the employer and/or user to provide a safe workplace, using health and safety information contained herein as a guide. This company will accept no liability for damages or losses incurred from the improper handling and use of this product.