TRIPLE S

Material Safety Data Sheet

Section I - Chemical Products & Company Identifications

Product Name / Item No.	SSS Sanotracin™ Concentrate, 18012
EPA Reg. No.	88089-2
Description	Disinfectant
Product Dilution Information	Prior to use, dilute with approved chemical dilution system - 26 oz/gal or 200 mL/L of water
Manufactured for:	Triple S 2 Executive Park Drive Billerica, MA 01862
Information Telephone No.	1-800-323-2251
Emergency Telephone No.	1-888-779-1339
Creation Date	7-May-2012
Revision Date	17-Apr-2013
Version	2.2

Section II - Health Hazard Data

Hazards to Humans and Domestic

DANGER. CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if absorbed through the skin or inhaled. Harmful if swallowed. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or mist. Wear protective eyewear (goggles, face shield, or safety glasses), clothing, and chemical resistant gloves. Wash with soap and water thoroughly after handling and before eating, drinking, or using tobacco. Remove and wash clothing before reuse. Dilute concentrate to the appropriate use rate in a well ventilated area or have available proper respiratory protection.

HMIS® Classification		**NFPA® Rating**	
Health Hazards	**3**	**Health**	**3**
Flammability	**0**	**Flammability**	**0**
Reactivity	**1**	**Reactivity**	**2**
Physical Hazards	**C**	**Special Hazards**	**OX1**

HMIS® Ratings Note: 4=Severe, 3=Serious, 2=Moderate, 1=Slight, 0=Minimal, C=Safety Glasses, Gloves and Apron

Section III - Composition / Information on Ingredients

Ingredients	CAS#	Concentration	Exposure Limit
Hydrogen Peroxide	7722-84-1	23-25%	1ppm (TWA) ACGIH 1ppm PEL (1.4mg/m^3) OSHA
Peraoxyacetic Acid	79-21-0	1.0-1.4%	None established
Other		1.0-2.0%	None established
Water	7732-18-5	Balance	

Section IV - First Aid Measures

Have the product container with you when calling a poison control center or doctor or going for treatment.

If in Eyes
- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If Swallowed
- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by the poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

In on Skin or Clothing
- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or physician for treatment advice.
- Do not give anything by mouth to an unconscious person.

If Inhaled
- Move person to fresh air
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or physician for further treatment advice.

Section IV - First Aid Measures (Continued)

First Aid Notes	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. Observation may be warranted. Treatment is controlled removal of exposure followed by symptomatic and supportive care.

Section V - Fire Fighting Measures

Flammable Limits

Not available.

Suitable Extinguishing Media

Use flooding quantities of water only. Use water spray to keep fire-exposed containers cool. Fight fire from protected location or maximum distance. Chemical type extinguishers are not effective with peraoxyacetic acid or hydrogen peroxide, which are ingredients in this product.

Special Protective Equipment for Firefighters

Use personal protective equipment and wear positive pressure self-contained breathing apparatus for fire-fighting.

Fire-Point

No fire-point. This material will not sustain a flame.

Section VI - Accidental Release Measures

Steps to be taken in case of material spill or release

CAUTION! Floors may be slippery. Wear appropriate protective equipment and, where mists or vapors of unknown concentrations may be generated, wear a respirator with an organic-vapor-removing cartridge and a prefilter approved for pesticides with MSHA/NIOSH approval number prefix TC-23C or with a canister approved for pesticides with MSHA/NIOSH approval number prefix TC-14G.

Always approach spills from upwind. Ventilate the space involved. Small spills may be flushed to an approved sewer line with generous amounts of water. Combustible materials exposed to hydrogen peroxide should be rinsed immediately with large amounts of water to ensure that all the hydrogen peroxide is removed. Residual hydrogen peroxide which is allowed to dry on organic material such as paper, fabrics, cotton, leather, wood, or other combustibles can cause the material to ignite and result in a fire. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust.

Waste Disposal Method

Dispose of in compliance with Federal, state and local laws and regulations. Consult a regulatory specialist for assistance.

Section VII - Handling and Storage

Handling

Store containers in upright position only. Avoid contamination; impurities accelerate decomposition. Never return product to original container. Empty containers as thoroughly as possible.

- One gallon and smaller container: If empty, wrap container and put in trash or offer for recycling. If partly filled, call your local solid waste agency for disposal instructions.
- Larger than one gallon container: Triple rinse prior to disposal. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or incineration.

Storage

Store in original containers in a cool, well-vented area, away from direct sunlight. Maintain temperature between 14°F and 104°F (-10°C and 40°C). Do not allow product to freeze or become overheated. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water.

Ventilation

Provide mechanical local exhaust ventilation to prevent release of mist into the work area.

Section VIII - Exposure Controls / Personal Protection

Engineering Controls

Use only with adequate ventilation. Keep airborne contaminants below recommended or statutory limits.

Skin Protection

Use synthetic apron and protective clothing and other protection equipment as necessary to prevent skin contact.

Respiratory Protection

When used as directed on product labeling, respiratory protection is not required. If discomfort occurs during handling, use and approved acid/gas cartridge or canister.

Protective Clothing

Rubber or neoprene gloves.

Eye & Face Protection

Protective eye wear. When splash is a concern, wear goggles (eyecup or cover) or a face shield.

Section IX - Physical and Chemical Properties

Description	Colorless with slight gray tinge
Odor	Pungent, vinegar-like odor

Section IX - Physical and Chemical Properties (Continued)

Form	Liquid
Melting Point	Not applicable
Boiling Point	No data
Flash Point	Not applicable
Explosive Properties	No data
Auto-Ignition Temperature	No data
Vapor Pressure	No data
Vapor Density	No data
Percent Volatiles	>98%
Dynamic Viscosity	1.27 cP
Kinematic Viscosity	No data
Specific Gravity	1.11 g/ml, 9.26 lbs./gal.
Solubility	Water: 100% Soluble
pH	1.3 at 20°C

Section X - Stability and Reactivity

Hazardous Decomposition Products	Oxygen that supports combustion Acetic Acid Carbon Monoxide Carbon Dioxide
Hazardous Reactions	This product is not considered to be an explosion hazard. Drying of concentrated hydrogen peroxide on clothing or other combustible materials may cause fire or explosion. This product is incompatible with alkalis, metals, organic materials, and chlorindated products.
Sensitivity to Static Discharge	Not available
Sensitivity to Impact	Not available

Section XI - Toxicology Information

Acute Toxicity	Oral: LD_{50} (rat) > 5000 mg/kg Inhalation: LC_{50} (rat) between .51 mg/l and 2.08 mg/l Dermal: LD_{50} (rat) = 3129 mg/kg
Skin Corrosion / Irritation	Severe Irritant. Corrosive. Primary Dermal Irritation Index (PDII) = 6.4
Serious Eye Damage / Eye Irritation	Severe Irritant. Corrosive.
Skin Sensitization	Not contact sensitizer.
Target Organs	Eyes, skin, nose, throat, lungs
Acute Effects from Overexposure	No data available for this product. Liquid may cause severe burns and irreversible tissue damage to eyes. Inhalation of vapors may cause lacrimation and irritation of the mucous membranes, eyes, and nasal passages. Persons with asthma or susceptibility to asthma-like symptoms or with impaired or compromised respiratory function should avoid exposure
Chronic Effects from Overexposure	No data available for this product. Product contains hydrogen peroxide. There are reports of limited evidence of carcinogenicity of hydrogen peroxide to mice administered high concentrations in their drinking water (IARC Monograph 36, 1985). The U.S. Federal Drug Administration has concluded that there is insufficient evidence of carcinogenicity and the International Agency for Research on Cancer (IARC) has concluded that this chemical is not classifiable as to it carcinogenicity to humans (group 3).
Carcinogenicity	
Hydrogen Peroxide	NTP - Not listed IARC - IARC Group 3 OSHA - Not Listed Other - ACGIH (A3, Animal Carcinogen)

Section XII - Ecological Information

Ecotoxicological Information	No data available for this product.
Chemical Fate Information	No data available for this product. Hydrogen peroxide and peracetic acid are completely miscible with water. Aqueous solutions of peracetic acid hydrolyze to acetic acid and hydrogen peroxide. Aqueous solutions of hydrogen peroxide degrade to oxygen and water.

Section XIII - Transport Information

DOT (US)

Proper Shipping Name	Disinfectants, liquid, corrosive, n.o.s. (contains hydrogen peroxide, peroxyacetic acid)
Identification No.	UN1903
Dangerous Goods Classification	8 (Corrosive)
Packing Group	III
Transport Label	Inner Packages over 1.3 gallons, 8 Corrosive Inner Packages not over 1.3 gallons, white square-on-point limited quantity marking

Section XIV - Regulatory Information

United States

Toxic Substances Control Act (TSCA)	Listed
US EPA Regulation on Pesticides	This product is an EPA FIFRA registered pesticide, EPA Registration No. 88089-2. The product can only be used commercially in the EPA FIFRA registered application(s) noted on the product label.
RCRA Status	Waste No. D002 (corrosivity)
OSHA Hazards	Corrosive, Oxidizer
SARA 302 Reportable Quantity	Peracetic Acid: RQ = 500 lbs. Hydrogen Peroxide: TPQ = 1,000 lbs., RQ = 1,000 lbs.
SARA 311 Hazard Category	Fire Hazard, Immediate (Acute) Health Hazard
SARA 312 Threshold Planning Quantity	Peracetic Acid: 500 lbs. <52% Hydrogen Peroxide: 10,000 lbs.
SARA 313 Components	Listed
CERCLA Regulatory	Listed (Acetic Acid = 5000 lbs.), Category D.

Canada

Workplace Hazardous Materials Information System (WHMIS)	Hazard Classification: Class E (Corrosive), Class C (Oxidizer) Ingredient Disclosure List: Listed (Hydrogen Peroxide, Peracetic Acid, Acetic Acid)

Section XV - Other

The information in this document is correct to the best of our knowledge, information, and belief at the date of its publication and is applicable to the product with regard to appropriate safety precautions. It does not represent a warranty or guarantee of properties of the product. Triple S, nor the manufacturer shall not be held liable for any damage resulting from handling or from contact with the product.