

# SAFETY DATA SHEET

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Trade Name: **Savin Sanitizer**  
Product Code: **LSS**

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance/Mixture: EPA Registration Number: 10324-63  
Disinfectant/Food-Contact Sanitizer. This product is intended to be diluted prior to use. For further information refer to the EPA Registered product label. Uses other than those identified are not recommended.

**Product dilution information:** Disinfectant: 3-4 ounces per 5 gallons; Sanitizer: 1-2 ounces per 4 gallons; Refer to EPA registered label for product dilution/application directions for use.

### 1.3 Details of the supplier of the safety data sheet

Company: Savin Products Company, INC.  
214 High St  
Randolph, MA. 02368  
Phone: 781-961-2743  
Email: info@savinproducts.com

Prepared by: SDS Coordinator

Date prepared: 10/18/2016

Supersedes: 10/30/2015

Reason for revision: Review and update

### 1.4 Emergency telephone

Emergency telephone number: 800-424-9300 (CHEMTREC)

## 2. Hazards identification

### 2.1 Emergency overview

Appearance: Clear solution with characteristic odor  
Precautionary statements: Causes severe skin burns and serious eye damage  
Harmful if swallowed

#### GHS classification

##### Health

Serious eye damage/eye irritation

Category 1

Skin corrosion/irritation

Category 1B

Acute toxicity (oral)

Category 4

Acute toxicity (dermal)

Category 4

### Product at Use-Dilution

Serious eye damage/eye irritation Category 2B

### 2.2 GHS label elements, including precautionary statements

Hazard pictograms/symbols



Signal Word:

**DANGER**

Hazard Statements:

H302: Harmful if swallowed  
H312: Harmful in contact with skin  
H314: Causes severe skin burns and eye damage

Precautionary Statements:

#### Prevention

P262: Do not get in eyes, on skin, or on clothing  
P264: Wash affected areas thoroughly after handling  
P270: Do not eat, drink or smoke when using this product  
P280: Wear protective gloves and eye, face and foot protection

#### Response

P301+P312+P330+P331: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell. Do NOT induce vomiting.  
P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water  
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
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  
P363: Wash contaminated clothing before reuse

#### Storage

P233: Keep container tightly closed  
P234: Keep only in original container  
P501: Dispose of contents and container to an approved waste disposal plant



**Product at Use-Dilution**

Hazard pictograms/symbols None

Signal Word:

Warning

Hazard Statements:

H320: Causes eye irritation

Precautionary Statements:

**Prevention**

P264: Wash affected areas thoroughly after handling

**Response**

P305+P351+P338+P337+P313: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact Lenses if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

**2.3 Other hazards**

No information available

**3. Composition/information on ingredients****3.1 Information on components and impurities**

Chemical name	CAS number(s)	GHS Classification	Concentration, %
Alkyl (C <sub>12-18</sub> ) dimethylbenzyl ammonium chloride	68391-01-5	Serious eye damage/eye irritation: Category 1, Skin corrosion/irritation: Category 1B, Acute toxicity (oral): Category 3, Acute toxicity (dermal): Category 3, H301, H314, H318	>=10.0-<=10.5
Alkyl (C <sub>12-14</sub> ) dimethylethylbenzyl ammonium chloride	85409-23-0		
Other components		Not classified	Balance

**Product at Use-Dilution**

Within the present knowledge of the supplier, this product does not contain any hazardous ingredients in quantities requiring reporting, in accordance with local regulations.

**4. First aid measures****4.1 Description of first-aid measures**

**General advice:** Show this material safety data sheet to medical personnel. Do not leave affected person unattended. Isolate exposed apparel for laundry before re-use.

**Eye contact:** Rinse eyes with water. Remove any contact lenses, and continue flushing eyes with running water for at least 15 minutes. Hold eyelids apart to ensure rinsing of the entire surface of the eyes and lids with water. Seek medical attention if irritation develops or persists.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash affected areas with plenty of water. Seek medical attention if irritation develops or persists.

**Ingestion:** Do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person. Rinse mouth with water. Seek medical attention.

**If inhaled:** Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.

**Product at Use-Dilution**

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists.

**Skin contact:** No known effect after skin contact. Rinse with water for a few minutes.

**Ingestion:** Get medical attention if symptoms occur

**If inhaled:** No special measures required. Treat symptomatically.

**4.2 Most important symptoms and effects, both acute and delayed**

**Risks:** The most important known symptoms and effects are described in the labeling (section 2.2) and/or in section 11. Corrosive effects. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Permanent eye damage including blindness could result. Prolonged or repeated skin contact may aggravate existing skin conditions. Inhalation of mists may aggravate existing chronic respiratory conditions such as asthma, emphysema or bronchitis.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Note to physician:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically.



## 8. Exposure controls/personal protection

### Introductory remarks:

These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs. Waste resulting from these procedures should be handled in accordance with Section 13: Disposal considerations.

Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers

### 8.1 Control parameters

Components with workplace control parameters

Components	Value	Control parameters	Basis
Not reportable			

### 8.2 Exposure controls

#### Control measures

##### Engineering measures:

Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

#### Personal protective equipment

##### Respiratory protection:

In operations where mists are generated, wear a NIOSH/MSHA approved respirator that has been selected by a technically qualified person for the specific work conditions.

##### Hand protection:

Wear long chemical resistant gloves. Observe instructions regarding permeability and breakthrough time provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion and contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

##### Eye protection:

Wear chemical splash goggles.

##### Skin and body protection:

Wear footwear protecting against chemicals and impervious clothing. Choose body protection according to the amount and concentration of the substances in the workplace.

##### Hygiene measures:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

##### Protective measures:

Ensure that eyewash stations and safety showers are close to the workstation location, and that emergency equipment is immediately accessible with instructions for use.

The protective equipment must be selected in accordance with current local standards and in following proper use instructions from the supplier of the protective equipment.

Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

#### Product at Use-Dilution

##### Respiratory protection:

A respirator is not needed under normal and intended conditions of product use

##### Hand protection:

No protective equipment is needed under normal use conditions

##### Eye protection:

No protective equipment is needed under normal use conditions

##### Skin and body protection:

No protective equipment is needed under normal use conditions

##### Hygiene measures:

Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet
- 3) Wash exposed skin promptly to remove accidental splashes or contact with product

## 9. Physical and chemical properties

Physical and chemical properties listed represent typical properties and should not be considered product specifications. Refer to product Certificate of Analysis for Product Specifications or contact Mason Chemical Company for additional information.

### 9.1 Information on basic physical and chemical properties

#### Appearance:

Clear solution

#### Odor:

Characteristic odor

#### Odor Threshold:

No information available

#### pH:

6-8

#### Freezing point:

No information available

#### Melting point/range:

No information available



Boiling point/boiling range:	>100°C
Flash point:	Does not flash
Evaporation rate:	No information available
Flammability (solid, gas):	Not applicable
Flammability/Explosive limit:	No information available
Auto-ignition temperature:	No information available
Vapor pressure:	No information available
Vapor density:	No information available
Density:	1.00 g/ml, 8.3 lbs/gal (25°C)
Solubility:	Water solubility: soluble
Solubility in other solvents:	No information available
Partition coefficient: n-octanol/water:	No information available
Thermal decomposition:	No information available
Viscosity:	Low viscosity
Explosive properties:	No information available
Oxidizing properties:	No information available

#### Product at Use-Dilution

Appearance:	Clear solution
Odor:	Characteristic odor
pH:	5-8
Flash point:	Does not flash

- 9.2 Other information  
No information available

#### 10. Stability and reactivity

- 10.1 Reactivity  
No information available
- 10.2 Chemical stability  
Stable and non-reactive under normal conditions of use, storage and transport
- 10.3 Possibility of hazardous reactions  
No information available
- 10.4 Conditions to avoid  
No information available
- 10.5 Incompatible materials  
Anionic surfactants
- 10.6 Hazardous decomposition products  
Oxides of carbon and nitrogen

#### 11. Toxicological information

##### Product Summary:

Causes severe skin burns and serious eye damage. Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly digestive tract. Vapors and spray mist may irritate throat and respiratory system and cause coughing.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

##### Information on likely routes of exposure:

Eye contact	Corrosive. Causes serious eye damage. Symptoms may include pain, burning sensation, redness, watering, blurred vision or loss of vision.
Skin contact	Corrosive. Causes severe burns. Symptoms may include burns, blisters, redness and pain (which may be delayed).
Ingestion	Harmful if swallowed. Causes burns/serious damage to mouth, throat and stomach. Symptoms may include vomiting, nausea, and/or feeling of general unwellness.
Inhalation	May cause irritation and corrosive effects to nose, throat and respiratory tract. Symptoms may include coughing and difficulty breathing.
Sensitization	No known effects

#### Product at Use-dilution

##### Product Summary:

Causes eye irritation.

No data available for the teratogenicity, mutagenicity, or reproductive toxicity of this product. No data available to designate the product as causing specific target organ toxicity through repeated exposure. No data available to designate product as an aspiration hazard.

##### Information on likely routes of exposure:

Eye contact	Causes eye irritation. Symptoms may include irritation, watering, redness
Skin contact	No known significant effects or critical hazards
Ingestion	No known significant effects or critical hazards
Inhalation	No known significant effects or critical hazards
Sensitization	No known effects



## 11.1 Information on toxicological effects

### Acute toxicity

Acute oral:	LD <sub>50</sub> >2,500 mg/kg
Acute dermal:	LD <sub>50</sub> >2,000 mg/kg
Acute inhalation:	No information available
Acute toxicity (other):	No information available

### Skin corrosion/irritation

Skin irritation:	Corrosive. Causes severe burns
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### Serious eye damage/eye irritation

Eye irritation:	Corrosive. Causes serious eye damage
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### Respiratory or skin sensitization

Sensitization:	Not classified as sensitizing by skin contact
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### Product at Use-dilution

#### Acute toxicity

Acute oral:	LD <sub>50</sub> >5000 mg/kg
Acute dermal:	LD <sub>50</sub> >2000 mg/kg
Acute inhalation:	No information available
Acute toxicity (other):	No information available

#### Skin corrosion/irritation

Skin irritation:	No known significant effects or critical hazards
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#### Serious eye damage/eye irritation

Eye irritation:	Causes eye irritation
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#### Respiratory or skin sensitization

Sensitization:	Not classified as sensitizing by skin contact
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### Mutagenicity

Genotoxicity in vitro:	No information available
Genotoxicity in vivo:	No information available

### Carcinogenicity

Carcinogenicity:	This product does not contain any ingredient designated as probable or suspected human carcinogens by IARC, ACGIH
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### Toxicity for reproduction and development

Toxicity to reproduction/fertility:	No information available
Developmental toxicity/teratogenicity:	No information available

### Specific Target Organ Toxicity (STOT)

STOT-single exposure:	No information available
STOT-repeated exposure:	No information available

### Aspiration toxicity

Aspiration toxicity:	No information available
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### Other Hazards

No information available

## 12. Ecological information

### 12.1 Toxicity

Aquatic toxicity:	Toxic to aquatic life
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### 12.2 Persistence and degradability

Biodegradation:	No information available
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### 12.3 Bioaccumulative potential

Partition coefficient n-octanol/water:	No bioaccumulation is to be expected (log Pow<=4)
Bioconcentration factor (BCF):	No information available

### 12.4 Mobility in soil

Known distribution to environmental compartments:	No information available
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### 12.5 Results of PBT and vPvB assessment

	No information available
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### 12.6 Other adverse effects

Environmental assessment:	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.
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**13. Disposal considerations****13.1 Waste treatment methods****PESTICIDE DISPOSAL:**

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.

Product disposal:

Observe all applicable federal, state, and local regulations

Packaging:

Remove all residue when emptying

**Product at Use-Dilution****Waste treatment methods****PESTICIDE DISPOSAL:**

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.

Product disposal:

Diluted product can be flushed to sanitary sewer

Packaging:

Discard empty container in trash or offer for recycling

**14. Transportation information**

DOT Hazard Classification:

UN number: 1903

UN proper shipping name: DISINFECTANTS, LIQUID, CORROSIVE, N.O.S.  
(QUATERNARY AMMONIUM COMPOUND)

Transport hazard class(es): 8

Packing group (if applicable): III

**Product at Use-Dilution**

DOT Hazard Classification:

Not applicable

**15. Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Notification status:

Not applicable

OSHA Hazard Communication Standard (29 CFR 1910.1200):

Hazardous

**CERCLA (RQ)**

Ingredient(s)	CAS#	Weight	CERCLA RQ	Section 302 TPQ
Not listed				

**SARA/EPCRA Extremely Hazardous Substances (302/304)**

Ingredient(s)	CAS#	Weight	RQ	TPQ
Not listed				

**SARA Hazard Categories (311/312)**

Fire	Reactive	Acute health hazard	Chronic health hazard
No	No	Yes	No

**SARA Toxic Substances (313)** The following components are subject to SARA Section 313 reporting requirements

Ingredient(s)	CAS#	Weight
Not listed		

**CAA (311) Volatile Organic compounds**

Ingredient(s)	CAS#	Weight
Not listed		

**15.2 Other regulations**

No information available



16. Other information			
NFPA-Classification		HMIS-Classification	
Health	3 high	Health	3 high
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	B
		B=Safety glasses, Gloves	

Product at Use-Dilution			
NFPA-Classification		HMIS-Classification	
Health	1 slight	Health	1 slight
Flammability	0 insignificant	Flammability	0 insignificant
Instability or Reactivity	0 insignificant	Reactivity	0 insignificant
		HMIS PPE	

Key or legend to abbreviations and acronyms used in the safety data sheet			
ACGIH:	American Conference of Governmental Industrial Hygienists	NIOSH:	National Institute for Occupational Safety and Health
HMIS:	Hazardous Materials Identification System	NTP:	National Toxicology Program
IARC:	International Agency for Research on Cancer	OSHA:	Occupational Safety and Health Administration
NFPA:	National Fire Protection Association		

**Disclaimer:**

This document was created for reference purposes only. Based on the US EPA approved basic formulation.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of this publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.