

SAFETY DATA SHEET

QUIK-CARE AEROSOL FOAM HAND SANITIZER

Section 1. Chemical product and company identification

Product name : QUIK-CARE AEROSOL FOAM HAND SANITIZER

Recommended use and restrictions : Skin antiseptic

Use only for the purpose on the product label.

Product dilution information : Not applicable

Supplier's information : Ecolab Inc. Healthcare Division
370 N. Wabasha St.
St. Paul, MN 55102
1-866-781-8787

Code : 901103-08

Date of issue : 11 Jul 2013

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Hazards identification

GHS Classification : **Product AS SOLD**
FLAMMABLE AEROSOLS. - Category 1
GASES UNDER PRESSURE - Compressed gas
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Narcotic effects] - Category 3

GHS label elements

Signal word : Danger

Symbol : 

Hazard statements : Extremely flammable aerosol.
Contains gas under pressure; may explode if heated.
Causes eye irritation.
May cause drowsiness and dizziness.

Precautionary statements

Prevention : Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Pressurized container: Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Intentional misuse by deliberate inhalation may be harmful or fatal. No special protection is required.

Response :

Product AT USE DILUTION

Product is sold ready to use.

Section 2. Hazards identification

	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. 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.
Storage	: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Store in a well-ventilated place.
Disposal	: See section 13 for waste disposal information.
Other hazards	: None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Product AS SOLD

Hazardous ingredients	Concentration Range (%)	CAS number
ALCOHOL	>50	64-17-5
ISOBUTANE	1 - 5	75-28-5
GLYCERIN	1 - 5	56-81-5
HYDROFLUOROCARBON 152A	1 - 5	75-37-6

Product AT USE DILUTION

Hazardous ingredients	Concentration Range (%)	CAS number
Product is sold ready to use.		

Section 4. First aid measures

	Product AS SOLD	Product AT USE DILUTION
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse with water for a few minutes.	Product is sold ready to use.
Skin contact	: Get medical attention if symptoms appear.	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if you feel unwell.	
Ingestion	: Get medical attention if symptoms occur.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.	
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
See toxicological information (section 11)		

Section 5. Fire-fighting measures

Product AS SOLD

- Suitable fire extinguishing media** : Use water spray, fog or foam.
- Specific hazards arising from the chemical** : Extremely flammable aerosol. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Gas may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back, causing fire or explosion. Bursting aerosol containers may be propelled from a fire at high speed. Runoff to sewer may create fire or explosion hazard.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
halogenated compounds
carbonyl halides
- Specific fire-fighting methods** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

- Personal precautions** : No special measures required.
- Environmental precautions** : Avoid contact of large amounts of spilled material and runoff with soil and surface waterways.
- Methods for cleaning up** : Absorb with an inert material. Use a water rinse for final clean-up.

Product AT USE DILUTION

Product is sold ready to use.

Section 7. Handling and storage

- Handling** : Store and use away from heat, sparks, open flame or any other ignition source. Liquid and vapor under pressure. Do not puncture, incinerate or store the container at temperatures above 49°C (120°F) or in direct sunlight. Wash hands after handling.
- Storage** : Keep out of reach of children. Keep container tightly closed. Keep container tightly closed and sealed until ready for use. Keep container in a cool, well-ventilated area. Avoid all possible sources of ignition (spark or flame). Do not puncture or incinerate container.
- Store between the following temperatures: 0 and 40°C

Product AT USE DILUTION

Product is sold ready to use.

Section 8. Exposure controls/personal protection

Control parameters

Ingredient name	Exposure limits
ALCOHOL	ACGIH TLV (United States, 3/2012). STEL: 1000 ppm 15 minutes. OSHA PEL (United States, 6/2010). TWA: 1900 mg/m ³ 8 hours. TWA: 1000 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours.
ISOBUTANE	ACGIH TLV (United States, 3/2012). TWA: 1000 ppm 8 hours. NIOSH REL (United States, 6/2009). TWA: 800 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours.
GLYCERIN	OSHA PEL (United States, 6/2010). TWA: 5 mg/m ³ 8 hours. Form: Respirable fraction TWA: 15 mg/m ³ 8 hours. Form: Total dust ACGIH TLV (United States, 3/2012). TWA: 10 mg/m ³ 8 hours.
HYDROFLUOROCARBON 152A	AIHA WEEL (United States, 10/2011). TWA: 1000 ppm 8 hours.

Product AS SOLD

Appropriate engineering controls : No special ventilation requirements.

Personal protection

Eye protection : No special protection is required.

Hand protection : No special protection is required.

Skin protection : No special protection is required.

Respiratory protection : No special protection is required.

Hygiene measures : No special measures required.

Product AT USE DILUTION

Product is sold ready to use.

Section 9. Physical and chemical properties

Product AS SOLD

Physical state	: Aerosol
Color	: White
Odor	: Alcohol-like
pH	: 6.4 to 6.7 (100%)
Flash point	: Not applicable.
Explosion limits	: Not available.
Flammability (solid, gas)	: Not available.
Melting point	: Not available.
Boiling point	: Not available.
Evaporation rate (butyl acetate = 1)	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.

Product AT USE DILUTION

Product is sold ready to use.

Section 9. Physical and chemical properties

Relative density : 0.88 to 0.9 (Water = 1)

Solubility : Not available.

Partition coefficient: : Not available.
n-octanol/water

Auto-ignition : Not available.
temperature

Decomposition : Not available.
temperature

Odor threshold : Not available.

Viscosity : Not available.

Aerosol product

Type of aerosol : Spray

Heat of combustion : 16.24 kJ/g

Ignition distance : Not available.

Flame height : Not available.

Flame duration : Not available.

Section 10. Stability and reactivity

Product AS SOLD

Stability : The product is stable.

Possibility of hazardous : Under normal conditions of storage and use, hazardous reactions will not occur.
reactions

Conditions to avoid : Avoid all possible sources of ignition (spark or flame).

Materials to avoid : Not available.

Hazardous decomposition : Under normal conditions of storage and use, hazardous decomposition products
products should not be produced.

Section 11. Toxicological information

Route of exposure : Skin contact, Eye contact, Inhalation, Ingestion

Product AS SOLD

Symptoms

Eye contact : Adverse symptoms may include the following:
irritation
watering
redness

Skin contact : No specific data.

Inhalation : Adverse symptoms may include the following:
respiratory tract irritation
coughing
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Ingestion : No specific data.

Acute toxicity

Eye contact : Causes eye irritation.

Skin contact : No known significant effects or critical hazards.

Inhalation :

Product AT USE DILUTION

Product is sold ready to use.

Section 11. Toxicological information

Can cause central nervous system (CNS) depression. May cause drowsiness and dizziness. Intentional misuse by deliberate inhalation may be harmful or fatal.

Ingestion : Can cause central nervous system (CNS) depression.

Toxicity data

Product/ingredient name

ethanol	LC50 Inhalation Vapor	Rat	117 mg/l
	LD50 Dermal	Rabbit	15800 mg/kg
	LD50 Oral	Rat	10470 mg/kg
glycerin	LC50 Inhalation Dusts and mists	Rat	>2.75 mg/l
	LD50 Dermal	Rabbit	23000 mg/kg
	LD50 Oral	Rat	18300 mg/kg
difluoroethane	LC50 Inhalation Gas.	Rat	>437500 ppm

Chronic toxicity

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Section 12. Ecological information

Product AS SOLD

Ecotoxicity : No known significant effects or critical hazards.

Aquatic and terrestrial toxicity

Product/ingredient name	Result	Species	Exposure
ethanol	Acute LC50 11000 mg/l	Fish	96 hours
glycerin	Acute LC50 855 mg/l	Fish	96 hours

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : **Product AS SOLD**

: Avoid disposal. Attempt to use product completely in accordance with intended use. Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not puncture or incinerate container. Discard empty container in trash.

Product AT USE DILUTION

Product is sold ready to use.

Section 14. Transport information

Certain shipping modes or package sizes may have exceptions from the transport regulations. The classification provided may not reflect those exceptions and may not apply to all shipping modes or package sizes.

DOT

DOT Classification UN1950
 DOT Proper shipping name Aerosols, flammable
 Class 2.1
 Packing group -

IMO/IMDG

IMO/IMDG Classification UN1950
 IMO/IMDG Proper shipping name AEROSOLS, FLAMMABLE
 Class 2.1
 Packing group -

For transport in bulk, see shipping documents for specific transportation information.

Product AT USE DILUTION

Not intended for transport.

Section 15. Regulatory information

Product AS SOLD

U.S. Federal regulations

TSCA 8(b) inventory : All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No listed substance

SARA 302/304 emergency planning and notification: No listed substance

<u>SARA 313</u>	<u>Product name</u>	<u>CAS number</u>	<u>Concentration</u>
-----------------	---------------------	-------------------	----------------------

Form R - Reporting requirements : No listed substance

California Prop. 65 : No listed substance

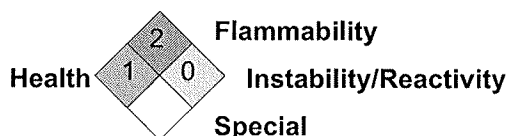
Section 16. Other information

Product AS SOLD

Hazardous Material :
 Information System (U.S.A.)

Health	*	1
Flammability		2
Physical hazards		0

National Fire Protection Association (U.S.A.) :



Section 16. Other information

NFPA Aerosol Level : Level 1

Date of issue : 11 Jul 2013

Prepared by : Regulatory Affairs
1-800-352-5326

Notice to reader

The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.



SAFETY DATA SHEET

BACTI-FOAM (US)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : BACTI-FOAM (US)

Other means of identification : not applicable

Recommended use : Skin antiseptic

Restrictions on use : Reserved for industrial and professional use.

Product dilution information : Product is sold ready to use.

Company : Ecolab Inc.
370 N. Wabasha Street
St. Paul, Minnesota USA 55102
1-800-352-5326

Emergency telephone : 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US)

Issuing date : 02/11/2014

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Eye irritation : Category 2B

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Flammable liquid and vapor.
Causes eye irritation.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
Keep container tightly closed.
Response:
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 advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
Storage:
Store in a well-ventilated place. Keep cool.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Preparation

SAFETY DATA SHEET

BACTI-FOAM (US)

Chemical Name	CAS-No.	Concentration (%)
ethanol	64-17-5	5 - 10
acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt	64-02-8	1 - 5
glycerin	56-81-5	1 - 5
triclosan	3380-34-5	0.1 - 1

SECTION 4. FIRST AID MEASURES

In case of eye contact	: Rinse with water.
In case of skin contact	: Rinse with water.
If swallowed	: Rinse mouth. Get medical attention if symptoms occur.
If inhaled	: Get medical attention if symptoms occur.
Protection of first-aiders	: No special precautions are necessary for first aid responders.
Notes to physician	: Treat symptomatically.

See toxicological information (Section 11)

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting	: Fire Hazard Keep away from heat and sources of ignition. Flash back possible over considerable distance. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
Hazardous combustion products	: Carbon oxides
Special protective equipment for fire-fighters	: Use personal protective equipment.
Specific extinguishing methods	: Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
Environmental precautions	: Do not allow contact with soil, surface or ground water.
Methods and materials for containment and cleaning up	: Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place

SAFETY DATA SHEET

BACTI-FOAM (US)

in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

SECTION 7. HANDLING AND STORAGE

- Advice on safe handling : Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from fire, sparks and heated surfaces.
- Conditions for safe storage : Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Storage temperature : 20 °C to 40 °C

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Form of exposure	Permissible concentration	Basis
ethanol	64-17-5	TWA	1,000 ppm	ACGIH
		TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z1
glycerin	56-81-5	TWA	10 mg/m ³	ACGIH

- Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Personal protective equipment

- Eye protection : No special protective equipment required.
- Hand protection : No special protective equipment required.
- Skin protection : No special protective equipment required.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : No specific measures identified.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : clear, green
- Odor : sweet
- pH : 9.2 - 9.6, 100 %
- Flash point : 43 °C closed cup
- Odor Threshold : no data available

SAFETY DATA SHEET

BACTI-FOAM (US)

Melting point/freezing point	: no data available
Initial boiling point and boiling range	: no data available
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapor pressure	: no data available
Relative vapor density	: no data available
Relative density	: 1.0 - 1.02
Water solubility	: no data available
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Autoignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, kinematic	: no data available
Explosive properties	: no data available
Oxidizing properties	: no data available
Molecular weight	: no data available
VOC	: no data available

SECTION 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: None known.
Hazardous decomposition products	: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Potential Health Effects

Eyes	: Causes eye irritation.
Skin	: Health injuries are not known or expected under normal use.
Ingestion	: Health injuries are not known or expected under normal use.
Inhalation	: Health injuries are not known or expected under normal use.
Chronic Exposure	: Health injuries are not known or expected under normal use.

SAFETY DATA SHEET

BACTI-FOAM (US)

Experience with human exposure

Eye contact	: Redness, Pain, Irritation
Skin contact	: No symptoms known or expected.
Ingestion	: No symptoms known or expected.
Inhalation	: No symptoms known or expected.

Toxicity

Acute oral toxicity	: Acute toxicity estimate : > 5,000 mg/kg
Acute inhalation toxicity	: 4 h Acute toxicity estimate : > 40 mg/l
Acute dermal toxicity	: no data available
Skin corrosion/irritation	: no data available
Serious eye damage/eye irritation	: Mild eye irritation
Respiratory or skin sensitization	: no data available
Carcinogenicity	
IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
Reproductive effects	: no data available
Germ cell mutagenicity	: no data available
Teratogenicity	: no data available
STOT-single exposure	: no data available
STOT-repeated exposure	: no data available
Aspiration toxicity	: no data available

Ingredients

Acute dermal toxicity	: ethanol LD50 rabbit: 15,800 mg/kg
	glycerin LD50 rabbit: 23,000 mg/kg
	triclosan LD50 rabbit: > 6,000 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

SAFETY DATA SHEET

BACTI-FOAM (US)

Environmental Effects : Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Product

Toxicity to fish : no data available

Toxicity to daphnia and other aquatic invertebrates : no data available

Toxicity to algae : no data available

Ingredients

Toxicity to fish : ethanol
96 h LC50 Fish: 11,000 mg/l

acetic acid, (ethylenedinitrilo)tetra-, tetrasodium salt
96 h LC50 Fish: 121 mg/l

glycerin
96 h LC50 Fish: 855 mg/l

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

Other adverse effects

no data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods : The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

RCRA - Resource Conservation and Recovery
Authorization Act Hazardous waste : D001 (Ignitable)

SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Not dangerous goods

SAFETY DATA SHEET

BACTI-FOAM (US)

Sea transport (IMDG/IMO)

Not dangerous goods

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Ingredients	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	*

*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

1907/2006 (EU) :
not determined

Switzerland. New notified substances and declared preparations :
not determined

United States TSCA Inventory :
On TSCA Inventory

Canadian Domestic Substances List (DSL) :
This product contains one or several components listed in the Canadian NDSL.

Australia Inventory of Chemical Substances (AICS) :
not determined

New Zealand. Inventory of Chemical Substances :
not determined

Japan. ENCS - Existing and New Chemical Substances Inventory :
not determined

Japan. ISHL - Inventory of Chemical Substances (METI) :
not determined

SAFETY DATA SHEET

BACTI-FOAM (US)

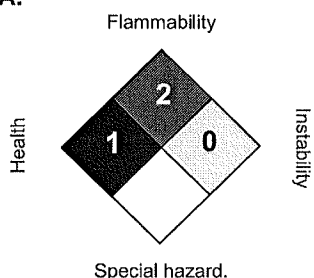
Korea. Korean Existing Chemicals Inventory (KECI) :
not determined

Philippines Inventory of Chemicals and Chemical Substances (PICCS) :
not determined

China. Inventory of Existing Chemical Substances in China (IECSC) :
not determined

SECTION 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 02/11/2014
Version : 1.0
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its 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.

SECTION 1 – PRODUCT IDENTIFICATION

Product Name: Sklar-Cide™ 28 HLD
Supplier: Sklar Instruments
Physical Address: 889 South Matlack Street, West Chester, PA, USA, 19382
Tel: 610.430.3200
Fax (USA): 610.696.9007
Fax (International): 610.430.3941
Email (USA): surgi@sklarcorp.com
Email (International): international@sklarcorp.com
Product Description: High-level Disinfectant and Sterilizing Solution.

Ratings	NPFA	HMIS
Health	0	2
Fire	0	0
Reactivity	0	0

SECTION 2 – HAZARD(S) IDENTIFICATION

Main Hazard: Severe eye irritant, aspiration, gastric and skin irritant.
Primary Route of Entry: Aspiration and ingestion, eye contact and inhalation of vapors.
Reproduction Hazard: Not Applicable
Potential Health Effects: Signs and Symptoms of Exposure:
Eyes: Severe irritation. Can be corrosive to eyes.
Skin: Prolonged or repeated contact may cause irritation or some redness.
Ingestion: Corrosive to mucous membranes. Accidental ingestion will result in stomach distress and vomiting.
Inhalation: Prolonged exposure to vapors may cause irritation to the nose or throat.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS#	OSHA PEL	ACGIH TLV	% by wt	Other Limits
Glutaraldehyde	111-30-8	N/A	0.05ppm	3.0	N/A

SECTION 4 – FIRST AID PROCEDURES

Eyes: Rinse with water for at least 15 minutes. Seek medical attention.
Skin: If irritated, rinse with water. If irritation persists, seek medical attention.
Ingestion: Rinse mouth and throat with water. Seek medical attention.
Inhalation: Move victim to fresh air. If person is having difficulty breathing, give oxygen and call a physician immediately.

SECTION 5 – FIRE FIGHTING MEASURES

Fire Fighting Procedures: None known.
Extinguishing Media: None known.
Hazardous Combustion Products: None known.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Environmental Precautions: Steps to be taken in the event of spills, leaks or release:
 Absorb spill with an absorbent material and place in a container for disposal.
 Rinse with plain water down drain.

SECTION 7 – HANDLING & STORAGE

Suitable Handling Material: Do not get on skin, in eyes or on clothing.
Storage Precautions: Keep container closed when not in use. Follow directions for use. Keep out of reach of children.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: General ventilation is normally adequate.

Personal Protective Equipment:

General: Wear liquid proof clothing.

Eye and Face: Wear safety goggles or face shield.

Skin: Wear chemical resistant gloves such as butyl or nitrile.

Inhalation: In case of insufficient ventilation wear suitable respiratory equipment.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: Unactivated: Colorless. Activated: Green.

Physical State: Liquid

Odor: Aldehyde fragrance

pH: 7.8 (mixed)

Boiling Point: 216°F = 102.2°C

Melting Point: Not Applicable

Evaporation Rate (Butyl Acetate = 1): Not Applicable

Flash Point: 200°F = 93.3°C

Flammability: Not flammable.

Autoflammability: Not Applicable

Explosive Properties: Not Applicable

Vapor Pressure: Not Determined

Specific Gravity (H₂O = 1): 1.01

Neurotoxicity: Not Applicable

Solubility in Water: Complete

SECTION 10 – STABILITY & REACTIVITY

General Stability Considerations: Stable.

Incompatible Materials: Strong oxidizing agents, acids and base.

Hazardous Decomposition Products: Oxides of carbon.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Extreme heat.

SECTION 11 – TOXICOLOGICAL INFORMATION

Skin & Eye Contact: Pre-existing skin and respiratory considerations may be aggravated by exposure.

Chronic Toxicity: None known

Carcinogenicity: Not Applicable

Mutagenicity: Stable.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Data (Fish, Daphnia & Algae): No ecological data has been established.

SECTION 13 – DISPOSAL CONSIDERATIONS

Disposal Methods: Ordinary sanitary system or in accordance with local, state and federal regulations.

SECTION 14 – TRANSPORT INFORMATION

UN No.: This product does not meet the criteria for D.O.T. hazardous material as defined by 49 CFR parts 171-173.

SECTION 15 – REGULATORY INFORMATION

All ingredients in this product are listed or are excluded from listing on the US Toxic Substance Act (TSCA) Chemical Substance Inventory. This product does not contain any amount of chemical required to be reported under SARA 313.

SECTION 16 – OTHER INFORMATION

Use as directed.

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. Actual conditions of use are beyond the manufacturer's control. User is responsible to evaluate all available information when using the product for any particular use and to comply with local, state and federal regulations.

Section 1 – Product Information			
Product Name: Surgistain		Supplier	The Ruhof Corporation
Product Code: 34572	Information Phone: 1-800-537-8463		Address 393 Sagamore Avenue Mineola NY 11501
Product Use: Medical Instrument Cleaning	Emergency Contact: 1-800-424-9300 (Chemtrec)		
Section 2 – Hazards Identification			
GHS Classification Respiratory Sensitization Category 1			
Section 2.1 Label Elements			
Hazard Pictograms 		Precautionary Statements Prevention <ul style="list-style-type: none"> • Wear eye/face protection. • Avoid breathing dust/fume/gas/mist/vapors/spray. • In case of inadequate ventilation wear respiratory protection. Eyes <ul style="list-style-type: none"> • IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. • Immediately call a POISON CENTER or doctor/physician. 	
Signal Word: Danger			
Hazard Statements: Causes serious eye damage		Inhalation <ul style="list-style-type: none"> • IF INHALED: If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing • If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. 	
Section 3 – Composition/Information on Ingredients			
Chemical Name	CAS-No	Weight %	Trade secret
Phosphoric Acid	7664-38-2	<25	*
*The exact percentage (concentration) of composition has been withheld as a trade secret.			
4. FIRST AID MEASURES			
General Advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.		
Eye Contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Immediate medical attention is required.		
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. If skin irritation persists, call a physician.		
Inhalation	Move to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, give oxygen. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.		
Ingestion	Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.		
5. FIRE-FIGHTING MEASURES			
Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.			
Unsuitable Extinguishing Media No information available.			
Specific Hazards Arising from the Chemical May cause sensitization by inhalation Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.			
Explosion Data			
Sensitivity to Mechanical Impact	None.		
Sensitivity to Static Discharge	None.		
Protective Equipment and Precautions for Firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
6. ACCIDENTAL RELEASE MEASURES			
Personal precautions, protective equipment and emergency procedures			
Personal Precautions Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Keep people away from and upwind of spill/leak.			
Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.			
Methods and materials for containment and cleaning up			
Methods for Containment	Prevent further leakage or spillage if safe to do so.		
Methods for Cleaning Up	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.		
7. HANDLING AND STORAGE			
Handling Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before re-use. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. Do not eat, drink or smoke when using this product.			
Storage Keep in properly labeled containers. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place.			
Incompatible Products None known based on information supplied.			
8. EXPOSURE CONTROLS / PERSONAL PROTECTION			
Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Phosphoric Acid 7664-38-2	3 mg/m3 STEL	1 mg/m3 TWA	1 mg/m3 TWA
Appropriate engineering controls			
Engineering Measures Showers, Eyewash stations, Ventilation systems			
Individual protection measures, such as personal protective equipment			
Eye/Face Protection	Wear safety goggles.		
Skin and Body Protection	Lightweight protective clothing. Impervious gloves.		
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.		
Hygiene Measures	When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.		



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Odor	Appearance	pH	Melting Point/Range	Boiling Point
Liquid	Mild	Clear	>1.5	No data available	>100C
Flash Point	Flammability Limits	Vapor Pressure	Specific Gravity	Water Solubility	Flammable Properties
No data available	No data available	No data available	1.2	Soluble	Not Flammable

10. STABILITY AND REACTIVITY

Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	Contact with some metals can generate hydrogen gas.
Incompatible materials	Alkalis
Hazardous decomposition products	Hydrogen, Phosphorous oxides.

11. TOXICOLOGICAL INFORMATION

Inhalation	May cause sensitization by inhalation.
Eye Contact	Irritating to eyes. Causes serious eye damage.
Skin Contact	May cause irritation.
Ingestion	There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Phosphoric Acid	1530 mg/kg (Rat)	2730 mg/kg (Rabbit)	850 mg/m3 (Exposure time: 1h)

Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization	May cause sensitization of susceptible persons. May cause sensitization by inhalation.
Carcinogenicity	Contains no ingredients above reportable quantities listed as a carcinogen.
Chronic Toxicity	Avoid repeated exposure. Repeated contact may cause allergic reactions in very susceptible persons.
Target Organ Effects	Respiratory system. Eyes. Skin.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Phosphoric acid (7664-38-2) LC50 fishes 1 3-3.5 mg/l (Exposure time: 96h - Species: Gambusia affinis) EC50 Daphnia 1 4.6 mg/l (Exposure time: 12h - Species: Daphnia magna)
Persistence and Degradability	No information available.
Bioaccumulation	Not established.
Other Adverse Effects	No information available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods	Dispose of in accordance with federal, state, and local regulations
Contaminated Packaging	Do not re-use empty containers.

14. TRANSPORT INFORMATION

DOT	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
-----	---

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Legislation	The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 453/2010 of 20th May 2010 amending regulation (EC) No 1907/2006
National Regulations	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689. Workplace Exposure Limits 2005 (EH40)

16. OTHER INFORMATION

NEPA	Health Hazard 2	Flammability 0	Instability 0	Physical and Chemical Hazards -
HMS	Health Hazard 2	Flammability 0	Physical Hazard 0	Personal Protection X



Prepared By
The Ruhof Corporation
393 Sagamore Avenue
Mineola, NY 11501

Revision Date 15-May-2015
Revision Note No information available.

General Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of Safety Data Sheet