Version 1.1 SDS Number: 400000000002 Revision Date: 02/28/2017

SECTION 1. IDENTIFICATION

Product name : SSS Elevate Advance Antibacterial Foam Hand Cleaner

Product code : 34106, 34116

Manufacturer or supplier's details

Company name of supplier : TRIPLE S

Address : 2 Executive Park Drive

Billerica, Massachusetts 01862

Telephone : 978-667-7900

Emergency telephone

number

888-779-1339

Recommended use of the chemical and restrictions on use

Recommended use : Human hygiene biocidal products

Restrictions on use : This is a personal care or cosmetic product that is safe for

consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for

employees and other users of this product. For specific intended-use guidance, please refer to the information

provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Eye irritation : Category 2A

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**

P280 Wear eye protection/ face protection.

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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.

P337 + P313 If eye irritation persists: Get medical advice/

attention.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Chemical name	CAS-No.	Concentration (%)
Propylene Glycol	57-55-6	>= 1 - < 5
Glycerin	56-81-5	>= 1 - < 5
Cocamidopropyl Betaine	61789-40-0	>= 1 - < 5
Benzalkonium Chloride	68391-01-5	>= 0.25 - < 1

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical

advice immediately.

When symptoms persist or in all cases of doubt seek medical

advice.

If inhaled : If inhaled, remove to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash with water and soap as a precaution.

Get medical attention if irritation develops and persists.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water

for at least 15 minutes.

If easy to do, remove contact lens, if worn.

Seek medical advice.

If swallowed, DO NOT induce vomiting.

Rinse mouth with water. Obtain medical attention.

Most important symptoms and effects, both acute and

delayed

: Causes serious eye irritation.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

Unsuitable extinguishing

media

: None known.

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Hazardous combustion

products

: Carbon oxides

Nitrogen oxides (NOx)

Specific extinguishing

methods

: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Use water spray to cool unopened containers.

Further information : 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.

Special protective equipment

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.

Ensure adequate ventilation.

Keep people away from and upwind of spill/leak.

Material can create slippery conditions.

Environmental precautions

Discharge into the environment must be avoided.

Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages

cannot be contained.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to

local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

Clean contaminated floors and objects thoroughly while

observing environmental regulations.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.

Do not swallow.

Avoid contact with eyes.

Keep container closed when not in use.

Conditions for safe storage : Keep in properly labelled containers.

Keep tightly closed in a dry, cool and well-ventilated place. Store in accordance with the particular national regulations.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type	Control	Basis
		(Form of	parameters /	

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		exposure)	Permissible concentration	
Propylene Glycol	57-55-6	TWA	10 mg/m3	US WEEL
Glycerin	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

Eye protection : No special measures necessary provided product is used

correctly.

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : No special measures necessary provided product is used

correctly.

Protective measures : Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

Ensure that eye flushing systems and safety showers are

located close to the working place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Avoid contact with eyes.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, purple

Odour : citrus, floral

Odour Threshold : No data available

pH : 5.0 - 7.0, (20 °C)

Melting point/freezing point : No data available

Boiling point/boiling range : 99 °C

Flash point : $> 100 \, ^{\circ}\text{C}$

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

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Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.007 g/cm3

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : not determined

Thermal decomposition : The substance or mixture is not classified self-reactive.

Viscosity

Viscosity, kinematic : 75 mm2/s (20 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Stable under recommended storage conditions.

Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.

Stable under normal conditions.

Incompatible materials : Oxidizing agents

Hazardous decomposition

products

: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Eye contact Skin contact

Acute toxicity

Not classified based on available information.

Components:

Propylene Glycol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rabbit): > 159 mg/l, > 51091 ppm

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute

inhalation toxicity

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Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Glycerin:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Cocamidopropyl Betaine:

Acute oral toxicity : LD50 : > 5,000 mg/kg

Method: OECD Test Guideline 401

Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD Test Guideline 402

Assessment: The substance or mixture has no acute dermal

toxicity

Remarks: Based on data from similar materials

Benzalkonium Chloride:

Acute oral toxicity : LD50 (Rat): 850 mg/kg

Acute dermal toxicity : LD50 (Rat): 2,300 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Propylene Glycol:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Glycerin:

Result: No skin irritation

Cocamidopropyl Betaine:

Result: Skin irritation

Benzalkonium Chloride:

Species: Rabbit

Result: Corrosive after 3 minutes to 1 hour of exposure

Remarks: Based on data from similar materials

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result: Irritating to eyes.

Components:

Propylene Glycol:

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

Glycerin:

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Result: No eye irritation

Cocamidopropyl Betaine:

Result: Eye irritation

Remarks: Severe eye irritation

Benzalkonium Chloride:

Species: Rabbit

Result: Irreversible effects on the eye

Remarks: Based on data from similar materials

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information. Respiratory sensitisation: Not classified based on available information.

Components:

Propylene Glycol:

Test Type: Maximisation Test (GPMT)

Exposure routes: Skin contact

Species: Guinea pig Result: negative

Cocamidopropyl Betaine:

Test Type: Maximisation Test (GPMT)

Exposure routes: Skin contact

Species: Guinea pig Result: negative

Remarks: Based on data from similar materials

Benzalkonium Chloride:

Test Type: Buehler Test Exposure routes: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Remarks: Based on data from similar materials

Germ cell mutagenicity

Not classified based on available information.

Components:

Propylene Glycol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Test species: Mouse

Application Route: Intraperitoneal injection

Result: negative

Glycerin:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test

Method: OECD Test Guideline 476

Result: negative

Cocamidopropyl Betaine:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

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Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay)
Test species: Mouse
Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Benzalkonium Chloride:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)

Method: OECD Test Guideline 471

Result: negative

Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo

cytogenetic assay)
Test species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 474

Result: negative

Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

Propylene Glycol:

Species: Rat

Application Route: Ingestion Exposure time: 2 Years Result: negative

Glycerin:

Species: Rat

Application Route: Ingestion Exposure time: 2 Years Result: negative

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.

OSHANo component 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 component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

Propylene Glycol:

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Effects on fertility : Species: Mouse

Application Route: Ingestion

Result: negative

Effects on foetal development

Test Type: Embryo-foetal development

Species: Mouse

Application Route: Ingestion

Result: negative

Glycerin:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Effects on foetal development

: Test Type: Embryo-foetal development

Species: Rabbit

Application Route: Ingestion

Result: negative

Cocamidopropyl Betaine:

Effects on foetal development

: Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion Method: OECD Test Guideline 414

Result: negative

Remarks: Based on data from similar materials

Benzalkonium Chloride:

Effects on fertility : Test Type: Two-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Effects on foetal

Test Type: Embryo-foetal development

development Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

Propylene Glycol:

Species: Rat

NOAEL: 1,700 mg/kg Application Route: Ingestion

Exposure time: 2 y

Glycerin: Species: Rat

NOAEL: 167 mg/m3

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LOAEL: 660 mg/m3

Application Route: inhalation (dust/mist/fume)

Exposure time: 13 w Symptoms: Local irritation

Cocamidopropyl Betaine:

Species: Rat NOAEL: 250 mg/kg

Application Route: Ingestion

Exposure time: 90 d

Method: OECD Test Guideline 408

Remarks: Based on data from similar materials

Benzalkonium Chloride:

Species: Mouse NOAEL: 192 mg/kg

Application Route: Ingestion

Exposure time: 94 d

Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Propylene Glycol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 40,613 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Ceriodaphnia Dubia (water flea)): 18,340 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Skeletonema costatum (marine diatom)): 19,000 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic

toxicity)

: Chronic Toxicity Value: 2,500 mg/l

Exposure time: 30 d

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Ceriodaphnia Dubia (water flea)): 29,000 mg/l

Exposure time: 7 d

Toxicity to bacteria : NOEC (Pseudomonas putida): > 20,000 mg/l

Exposure time: 18 h

Glycerin:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54,000 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 1,955 mg/l

Exposure time: 48 h

Toxicity to bacteria : NOEC (Pseudomonas putida): > 10,000 mg/l

Exposure time: 16 h

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Cocamidopropyl Betaine:

Toxicity to fish : LC50: > 1 - 10 mg/l

Exposure time: 96 h Method: ISO 7346/2

Remarks: Based on data from similar materials

Toxicity to bacteria : EC50: > 100 mg/l

Method: OECD Test Guideline 209

Remarks: Based on data from similar materials

Benzalkonium Chloride:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.515 mg/l

Exposure time: 96 h

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0.016 mg/l

Exposure time: 48 h

Method: Directive 67/548/EEC, Annex V, C.2. Remarks: Based on data from similar materials

Toxicity to algae : ErC50 (Selenastrum capricornutum (green algae)): 0.049 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

EC10 (Selenastrum capricornutum (green algae)): 0.009 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Remarks: Based on data from similar materials

M-Factor (Acute aquatic

toxicity)

: 10

Toxicity to fish (Chronic

toxicity)

: NOEC (Pimephales promelas (fathead minnow)): 0.0322 mg/l

Exposure time: 34 d

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): 0.0125 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

Remarks: Based on data from similar materials

M-Factor (Chronic aquatic

toxicity)

: 1

Persistence and degradability

Components:

Propylene Glycol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 98.3 % Exposure time: 28 d

Method: OECD Test Guideline 301F

Glycerin:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 1 d

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Cocamidopropyl Betaine:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 60 % Exposure time: 28 d

Method: OECD Test Guideline 301

Remarks: Based on data from similar materials

Benzalkonium Chloride:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 72 % Exposure time: 28 d

Bioaccumulative potential

Components:

Propylene Glycol:

Partition coefficient: n- : log Pow: -1.07

octanol/water

Glycerin: Partition coefficient: n-

octanol/water

: log Pow: -1.76

Benzalkonium Chloride:

Partition coefficient: n-

octanol/water

: log Pow: 2.75

Remarks: Based on data from similar materials

Mobility in soil
No data available

Other adverse effects

No data available

Product:

Regulation 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.

Empty containers should be taken to an approved waste

handling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

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Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

National Regulations

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

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.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI

Intermediate or Final VOC's (40 CFR 60.489):

Propylene Glycol 57-55-6 2.5 % Glycerin 56-81-5 2 %

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

US State Regulations

Massachusetts Right To Know

Glycerin	56-81-5	1 - 5 %

Pennsylvania Right To Know

· ·		
Water (Aqua)	7732-18-5	90 - 100 %
Propylene Glycol	57-55-6	1 - 5 %
Glycerin	56-81-5	1 - 5 %
Phenoxyethanol	122-99-6	0.1 - 1 %

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New Jersey Right To Know

Water (Aqua)	7732-18-5	90 - 100 %	
Propylene Glycol	57-55-6	1 - 5 %	
Glycerin	56-81-5	1 - 5 %	
Cocamidopropyl Betaine	61789-40-0	1 - 5 %	
PEG-80 Sorbitan Laurate	9005-64-5	1 - 5 %	

California Prop 65 This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

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

TSCA : On the inventory, or in compliance with the inventory

AICS : On the inventory, or in compliance with the inventory

DSL : On the inventory, or in compliance with the inventory

ENCS : On the inventory, or in compliance with the inventory

ISHL : On the inventory, or in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : On the inventory, or in compliance with the inventory

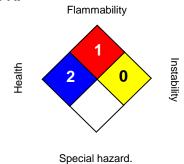
Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION

Further information

NFPA:



HMIS III:

HEALTH	2
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

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The information provided in this 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.