Versio 1.1	on	Revision Date: 02/10/2015		SDS Number: 588-00002	Date of last issue: 01/12/2015 Date of first issue: 01/12/2015		
SECT	'ION 1.		MP	ANY IDENTIFICAT	ION		
Р	roduct	name	:	SSS Bag-In-Box A	ASSIST Antimicrobial Hand Cleanser		
Р	Product code		:	83101			
N	lanufa	cturer or supplier's	deta	iils			
		ny name of supplier	:	TRIPLE S			
A	ddres	8	:	2 Executive Park Drive Billerica, MA 01862			
т	elepho	one	9	978-667-7900			
E	Emerge	ency telephone	ł	888-779-1339			
		address of person sible for the SDS	:	info@triple-s.com			
R	Recom	mended use of the c	hen	nical and restriction	ons on use		
R	Recom	mended use	:	Antibacterial Soap)		
R	Restrict	ions on use	:	consumers and of foreseeable use. (specifically define exempt from the r While this materia contains valuable proper use of the as well as unusua spills. This SDS s employees and of intended-use guid	care or cosmetic product that is safe for ther users under normal and reasonably Cosmetics and consumer products, d by regulations around the world, are equirement of an SDS for the consumer. I is not considered hazardous, this SDS information critical to the safe handling and product for industrial workplace conditions I and unintended exposures such as large hould be retained and available for her users of this product. For specific lance, please refer to the information ackage or instruction sheet.		
Р	Prepare	ed by	:	info@triple-s.com			

SECTION 2. HAZARDS IDENTIFICATION

WARNING				
Appearance	liquid			
Color	clear, colorless, yellow			
Odor	floral			
Hazard Summary	Irritant			

Emergency Overview

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WHMIS Regulatory status	: This product, material or substance is a WHMIS controlled product per Sections 33 - 66, Part IV of the CPR.		
Potential Health Effects			
Inhalation	: No significant effects expected from a single short-term expo- sure.		
Skin	: No significant irritation expected from a single short-term exposure.		
Eyes	: Causes eye irritation.		
Ingestion	: No significant effects expected from a single short-term exposure.		
Aggravated Medical Condition	: None known.		
Carcinogenicity:			
IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.		
ACGIH	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Oleic acid	112-80-1	>= 1 - < 5
Ethanolamine	141-43-5	>= 1 - < 5

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. Get medical attention if symptoms occur.
In case of skin contact	: Wash with water and soap as a precaution. Get medical attention if symptoms occur.

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In cas	e of eye contact	for at least 15	remove contact lens, if worn.	
If swallowed		: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
Protection of first-aiders		and use the re	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists.	
Notes	to physician	: Treat sympton	matically and supportively.	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media		Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO2)
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	-	Carbon oxides Metal oxides Sulfur 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. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters		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. Follow safe handling advice and personal protective equipment recommendations.
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

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Met	02/10/2015 hods and materials for ainment and cleaning up	barriers). Retain and dispo Local authorities cannot be conta : Soak up with ine For large spills, containment to k can be pumped, container. Clean up remain absorbent. Local or nationa disposal of this r	ose of contaminated wash water. s should be advised if significant spillages
		determine which Sections 13 and	a regulations are applicable. 15 of this SDS provide information regarding national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	: Use only with adequate ventilation.
Advice on safe handling	 Avoid inhalation of vapor or mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	: Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	: Do not store with the following product types: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanolamine	141-43-5	STEL	6 ppm 15 mg/m3	CA AB OEL
		TWA	3 ppm 7.5 mg/m3	CA AB OEL

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		I	TWA	3 ppm	CA BC OE	
			STEL	6 ppm	CA BC OE	
			TWAEV	3 ppm 7.5 mg/m3	CA QC OF	
			STEV	6 ppm 15 mg/m3	CA QC OF	
			TWA	3 ppm	ACGIH	
			STEL	6 ppm	ACGIH	
-	neering measures	Minimize wor Dust formatio product. In a limitations of workplaces h assessment. Particulates l dust, 5 mg/m Particles (ins	kplace exposu on may be rele ddition to subs concentrations ave to be cons Relevant limits Not Otherwise 3 - respirable f oluble or poorl 3 mg/m3 - resp	n, especially in conf are concentrations. vant in the processi- tance-specific OELs of particulates in t sidered in workplace s include: OSHA PE Regulated of 15 mg fraction; and ACGIH y soluble) Not Othe birable particles, 10	ing of this s, general he air at e risk EL for g/m3 - total 1 TWA for prwise	
	onal protective equip iratory protection	: Use respirato ventilation is	provided or ex	Inless adequate loc posure assessmen ecommended expos	t demonstrates	
Filt	er type	: Combined pa	: Combined particulates and organic vapor type			
	protection terial	: Impervious g	loves			
Re	marks	on the conce time is not de For special a resistance to gloves with tl	ntration specif etermined for the pplications, we chemicals of t	ands against chemi ic to place of work. ne product. Change e recommend clarify he aforementioned facturer. Wash han orkday.	Breakthrough gloves often! /ing the protective	
Eye p	protection	: Wear the foll Safety goggl		l protective equipm	ent:	
Skin a	and body protection	resistance da potential. Skin contact	ata and an ass	ve clothing based or essment of the loca ed by using impervi pots, etc).	Il exposure	
Hygie	ne measures	located close When using	to the working do not eat, drir		howers are	

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, colorless, yellow
Odor	: floral
Odor Threshold	: No data available
рН	: 7 - 10
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: >100 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Density	: 1.00 g/cm3
Solubility(ies) Water solubility	: soluble
Partition coefficient: n- octanol/water	: Not applicable
Autoignition temperature	: No data available
Decomposition temperature	: The substance or mixture is not classified self-reactive.
Viscosity Viscosity, kinematic	: 1 - 20 mm2/s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

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React	ivity	:	Not classified as	a reactivity hazard.	
Chem	Chemical stability		: Stable under normal conditions.		
Possit tions	bility of hazardous reac-	:	Can react with s	trong oxidizing agents.	
Condi	tions to avoid	:	None known.		
Incom	patible materials	:	Oxidizing agents		
Hazar produ	dous decomposition	:	No hazardous de	ecomposition products are known.	

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Ingredients: Oleic acid: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Ethanolamine: Acute oral toxicity	: LD50 (Rat): 1,515 mg/kg
Acute inhalation toxicity	 Acute toxicity estimate: 11 mg/l Test atmosphere: vapor Method: Expert judgment Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI
Acute dermal toxicity	: LD50 (Rabbit): 1,025 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:

Oleic acid: Species: Rabbit Method: Draize Test Result: No skin irritation

Ethanolamine:

Species: Rabbit Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes eye irritation.

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Oleic Speci Resul Ethar Speci	dients: acid: es: Rabbit t: No eye irritation nolamine: es: Rabbit t: Irreversible effects or	n the eye	
Skin s Respi <u>Produ</u>	-	fied based on ava ot classified based	on available information.
Oleic Test Route Speci Resul Rema Ethar Test Route Speci	dients: acid: Type: Maximization Tes s of exposure: Skin co es: Guinea pig t: negative arks: Based on data from tolamine: Type: Maximization Tes s of exposure: Skin co es: Guinea pig t: negative	ntact m similar materials st (GPMT)	5
Not cl Ingre Oleic	cell mutagenicity assified based on avail <u>dients:</u> acid: toxicity in vitro	: Test Type: (Method: OE Result: nega	Chromosome aberration test in vitro CD Test Guideline 473 ative ased on data from similar materials
	tolamine: toxicity in vitro		n vitro mammalian cell gene mutation test CD Test Guideline 476 ative
Geno	toxicity in vivo	cytogenetic Species: Mo Application	buse Route: Ingestion CD Test Guideline 474

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Not cla Repro	nogenicity assified based on availa ductive toxicity			
	assified based on availa	adie	information.	
Ingred Oleic a	acid:			
Effects	s on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD Te Result: negative	
Effects	s on fetal development	:	reproduction/dever Species: Rat Application Route Method: OECD Te Result: negative	
Ethan	olamine:			
	s on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study
Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route Method: OECD Te Result: negative	
Not cla	-single exposure assified based on availa	able	information.	

Ingredients:

Ethanolamine:

Assessment: May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Ingredients:

Ethanolamine:

Routes of exposure: inhalation (dust/mist/fume) Assessment: No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

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Repeated dose toxicity

Ingredients:

Oleic acid: Species: Rat NOAEL: > 1,000 mg/kg Application Route: Ingestion Exposure time: 42 d Method: OECD Test Guideline 422 Remarks: Based on data from similar materials

Ethanolamine:

Species: Rat NOAEL: 150 mg/m3 Application Route: inhalation (dust/mist/fume) Exposure time: 28 d

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

<u>Ingredients:</u> Oleic acid:		
Toxicity to fish	:	(Pimephales promelas (fathead minnow)): Exposure time: 96 h Remarks: No toxicity at the limit of solubility.
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 4.8 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: No toxicity at the limit of solubility. Based on data from similar materials
Toxicity to algae	:	EC50 (Selenastrum capricornutum (green algae)): > 0.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility. Based on data from similar materials
Ethanolamine: Toxicity to fish	:	LC50 (Cyprinus carpio (Carp)): 349 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 65 mg/l Exposure time: 48 h
Toxicity to algae	:	ErC50 (Selenastrum capricornutum (green algae)): 2.8 mg/l Exposure time: 72 h
		NOEC (Scenedesmus capricornutum (fresh water algae)): 1

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			mg/l Exposure time: 7	'2 h	
Toxici toxicit	ity to fish (Chronic y)	:	NOEC (Oryzias I Exposure time: 4	atipes (Orange-red killifish)): 1.24 mg/l 1 d	
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)		:	NOEC (Daphnia magna (Water flea)): 0.85 mg/l Exposure time: 21 d		
Toxicity to bacteria		:	EC50 (Pseudomonas putida): 110 mg/l Exposure time: 17 h		
Persi	stence and degradabil	ity			
_	dients:				
Oleic Biode	acid: gradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 1	93 %	
	nolamine: gradability	:	: Result: Readily biodegradable. Biodegradation: > 90 % Exposure time: 21 d		
Bioac	cumulative potential				
Ingre	dients:				
	acid: on coefficient: n- ol/water	:	log Pow: 7.64		
Partiti	nolamine: on coefficient: n- ol/water	:	: log Pow: -1.91		
Mobil	lity in soil				
No da	ita available				
	adverse effects				
No da	ita available				

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.

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SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

TDG Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

WHMIS Classification	: D2B: Toxic Material Causing Other Toxic Effects
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This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

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

AICS

: All ingredients listed or exempt.

Inventories

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

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
CA AB OEL		Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
CA BC OEL	:	Canada. British Columbia OEL
CA QC OEL		Québec. Regulation respecting occupational health and safe- ty, Schedule 1, Part 1: Permissible exposure values for air- borne contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
CA AB OEL / TWA	:	8-hour Occupational exposure limit
CA AB OEL / STEL		15-minute occupational exposure limit
CA BC OEL / TWA	:	8-hour time weighted average

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CA BC OEL / STEL CA QC OEL / TWAEV CA QC OEL / STEV		 short-term exposure limit Time-weighted average exposure value Short-term exposure value 			
Sources of key data used to compile the Material Safety Data Sheet		eChem Portal	: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/		

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 is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

CA / Z8