

Version 2.0	Revision Date: 04/17/2015		SDS Number: 1786-00005	Date of last issue: 03/19/2015 Date of first issue: 11/24/2014		
SECTION	1. IDENTIFICATION					
Produ	ict name	:	PROVON® Antibacterial Foam Handwash			
Manu	facturer or supplier's	deta	ails			
Comp	oany name of supplier	:	GOJO Industries,	Inc.		
Addre	ess	:	One GOJO Plaza Akron OH 44311	One GOJO Plaza, Suite 500 Akron OH 44311		
Telep	hone	:	1 (330) 255-6000			
Emer	gency telephone	:	1-800-424-9300	CHEMTREC		
Reco	mmended use of the o	cher	nical and restriction	ons on use		
Reco	mmended use	:	Antibacterial Soa	ρ		
Restri	ictions on use	:	consumers and o foreseeable use. specifically define exempt from the While this materia contains valuable proper use of the as well as unusua spills. This SDS s employees and o intended-use guid	I care or cosmetic product that is safe for ther users under normal and reasonably Cosmetics and consumer products, ed by regulations around the world, are requirement of an SDS for the consumer. al is not considered hazardous, this SDS information critical to the safe handling and product for industrial workplace conditions al and unintended exposures such as large should be retained and available for ther users of this product. For specific dance, please refer to the information package or instruction sheet.		

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Flammable liquids	: Category 3
Serious eye damage	: Category 1
GHS Label element Hazard pictograms	
Signal Word	: Danger
Hazard Statements	: H226 Flammable liquid and vapor. H318 Causes serious eye damage.



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Preca	utionary Statements	No smoking. P233 Keep conta P241 Use explose equipment. P242 Use only n P243 Take preca P280 Wear prote Response: P303 + P361 + F all contaminated P305 + P351 + F water for several and easy to do. 0 CENTER or doct Storage: P403 + P235 Sto Disposal:	y from heat/sparks/open flames/hot surfaces. ainer tightly closed. sion-proof electrical/ ventilating/ lighting/ on-sparking tools. autionary measures against static discharge. ective gloves/ eye protection/ face protection. 2353 IF ON SKIN (or hair): Take off immediately clothing. Rinse skin with water/shower. 2338 + P310 IF IN EYES: Rinse cautiously with minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON for/ physician.

Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Propylene glycol	57-55-6	>= 10 - < 20
Ethanol	64-17-5	>= 5 - < 10
Dodecanoic acid	143-07-7	>= 5 - < 10
Ethanolamine	141-43-5	>= 1 - < 5
Imidazolium compounds, 1-[2- (carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5- dihydro-2-norcoco alkyl, hydroxides, sodium salts	68650-39-5	>= 1 - < 5
I-(+)-Lactic acid	79-33-4	>= 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.



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		Get medical a	ttention if symptoms occur.		
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. Get medical attention immediately. 			
If swallowed		Get medical a	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.		
Most important symptoms and effects, both acute and delayed		: Causes serior	us eye damage.		
Prot	ection of first-aiders	and use the re	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists.		
Note	es to physician	: Treat symptor	natically and supportively.		

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during fire fighting	:	Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	Carbon oxides Nitrogen oxides (NOx) Metal oxides
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



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prote	onal precautions, ctive equipment and gency procedures	Use personal Follow safe ha	ources of ignition. protective equipment. andling advice and personal protective commendations.
Envir	onmental precautions	Prevent furthe Prevent sprea barriers). Retain and dis	o the environment must be avoided. Fr leakage or spillage if safe to do so. ding over a wide area (e.g. by containment or oil spose of contaminated wash water. les should be advised if significant spillages ttained.
	ods and materials for inment and cleaning up	Soak up with Suppress (knu jet. For large spill containment t can be pumpe container. Clean up rem absorbent. Local or natio disposal of thi employed in t determine wh Sections 13 a	tools should be used. Inert absorbent material. bock down) gases/vapors/mists with a water spray s, provide diking or other appropriate b keep material from spreading. If diked material ed, store recovered material in appropriate aining materials from spill with suitable hal regulations may apply to releases and s material, as well as those materials and items he cleanup of releases. You will need to ich regulations are applicable. Ind 15 of this SDS provide information regarding r national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust 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. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Keep tightly closed.



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Materia	als to avoid	Store in accordar Keep away from Do not store with Strong oxidizing a Organic peroxide Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating subs	s s stances and mixtures mixtures which in contact with water emit

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propylene glycol	57-55-6	TWA	10 mg/m3	US WEEL
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m3	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m3	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Ethanolamine	141-43-5	TWA	3 ppm	ACGIH
		STEL	6 ppm	ACGIH
		TWA	3 ppm 8 mg/m3	NIOSH REL
		ST	6 ppm 15 mg/m3	NIOSH REL
		TWA	3 ppm 6 mg/m3	OSHA Z-1

Ingredients with workplace control parameters

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Dodecanoic acid	143-07-7
Imidazolium compounds, 1-[2- (carboxymethoxy)ethyl]-1- (carboxymethyl)-4,5-dihydro-2- norcoco alkyl, hydroxides, sodium salts	68650-39-5
I-(+)-Lactic acid	79-33-4

Engineering measures

: Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation. Use with local exhaust ventilation.



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	Persor	nal protective equipm	nent		
	Respira	atory protection	:	maintain vapor ex concentrations ar unknown, approp Follow OSHA res use NIOSH/MSH/ by air purifying res hazardous chemic supplied respirato release, exposure	exhaust ventilation is recommended to sposures below recommended limits. Where e above recommended limits or are riate respiratory protection should be worn. pirator regulations (29 CFR 1910.134) and A approved respirators. Protection provided spirators against exposure to any cal is limited. Use a positive pressure air or if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide on.
	Hand p Mate	protection prial	:	Impervious gloves	5
	Mate	erial	:	Flame retardant g	loves
	Rem	arks	:	on the concentrat time is not determ For special applic resistance to cher	protect hands against chemicals depending ion specific to place of work. Breakthrough hined for the product. Change gloves often! ations, we recommend clarifying the micals of the aforementioned protective ove manufacturer. Wash hands before end of workday.
	Eye pro	otection	:	Chemical resistar	g personal protective equipment: It goggles must be worn. ely to occur, wear:
	Skin ar	nd body protection	:	resistance data an potential. Wear the following Flame retardant an Skin contact must	e protective clothing based on chemical nd an assessment of the local exposure g personal protective equipment: intistatic protective clothing. t be avoided by using impervious protective aprons, boots, etc).
	Hygien	e measures	:	located close to the When using do not	ushing systems and safety showers are ne working place. ot eat, drink or smoke. ed clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, Colorless to pale yellow
Odor	: slight alcoholic



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Odor Threshold		:	No data available	9			
рН		:	7.8 - 9.7				
Melti	Melting point/freezing point		No data available				
Initial boiling point and boiling range		:	No data available	•			
Flas	h point	:	56.00 °C				
Evap	poration rate	:	No data available	No data available			
Flam	nmability (solid, gas)	:	Not applicable				
Uppe	er 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				
	bility(ies) ′ater solubility	:	soluble				
	tion coefficient: n- nol/water	:	Not applicable				
Auto	ignition temperature	:	No data available				
Deco	omposition temperature	:	The substance of	r mixture is not classified self-reactive.			
Visc Vi	osity scosity, kinematic	:	10 - 20 mm2/s (2	0.00 °C)			
Expl	osive properties	:	Not explosive				
Oxid	izing properties	:	The substance of	r mixture is not classified as oxidizing.			

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.



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Incom	npatible materials	: Oxidizin	g agents				
Hazaı produ	rdous decomposition	: No hazardous decomposition products are known.					
SECTION	11. TOXICOLOGICAL	INFORMATIC	N				
Inhala Skin o Inges	contact	s of exposure					
	e toxicity lassified based on avai	lable informatic	n.				
<u>Produ</u>	uct:						
Acute	oral toxicity		xicity estimate: > 5,000 mg/kg Calculation method				
Acute	inhalation toxicity	Exposur Test atm	xicity estimate: > 40 mg/l e time: 4 h osphere: vapor Calculation method				
Acute	e dermal toxicity		xicity estimate: > 5,000 mg/kg Calculation method				
Inare	dients:						
	ylene glycol:						
Acute	oral toxicity	: LD50 (R	at): > 5,000 mg/kg				
Acute	inhalation toxicity	Exposur Test atm	abbit): > 159 mg/l, > 51091 ppm e time: 4 h osphere: dust/mist nent: The substance or mixture has no acute n toxicity				
Acute	e dermal toxicity	•	abbit): > 2,000 mg/kg nent: The substance or mixture has no acute dermal				
Ethar	nol:						
Acute	oral toxicity	: LD50 (R	at): > 5,000 mg/kg				
Acute	inhalation toxicity	Exposur	at): 124.7 mg/l e time: 4 h osphere: vapor				
	canoic acid: e oral toxicity		at): > 5,000 mg/kg OECD Test Guideline 401				
Acute	inhalation toxicity	: LC50 (R	at): > 0.162 mg/l				



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		Exposure time: 4 h Test atmosphere: vapor Remarks: Based on data from similar materials		
Acute	dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials 		
	- I			
	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 	on	
Acute	dermal toxicity	: LD50 (Rabbit): 1,025 mg/kg		
		-[2-(carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-		
	oco alkyl, hydroxides			
Acule	oral toxicity	: LD50 (Rat, male): > 5,000 mg/kg Remarks: Based on data from similar materials		
Acute	dermal toxicity	 LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials 		
 -(+)-L	_actic acid:			
	oral toxicity	: LD50 (Rat, female): 3,543 mg/kg		
Acute	inhalation toxicity	: LC50 (Rat): > 7.94 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403		
Acute	dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg		
-	corrosion/irritation assified based on ava	able information		
<u>Produ</u> Resul	t: No skin irritation			
Roodi				
Ingre	dients:			
	/lene glycol:			
Metho	es: Rabbit od: OECD Test Guidel t: No skin irritation	ne 404		
Ethar	-			
	es: Rabbit od: OECD Test Guidel	ne 404		



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Dode Speci Metho	It: No skin irritation canoic acid: ies: Rabbit od: OECD Test Guideli It: No skin irritation	ine 404	
Speci	nolamine: ies: Rabbit lt: Corrosive after 3 mii	nutes to 1 hour of expo	osure
norco Speci Metho Resu	azolium compounds, poco alkyl, hydroxides ies: Rabbit pd: OECD Test Guideli lt: No skin irritation arks: Based on data fro	s, sodium salts: ine 404	y)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-
Speci	L actic acid: ies: Rabbit lt: Skin irritation		
	ous eye damage/eye i es serious eye damage		
Prop Speci	dients: ylene glycol: ies: Rabbit lt: No eye irritation		
11	od: OECD Test Guideli	ine 405	
Resu	nol: ies: Rabbit lt: Irritation to eyes, rev od: OECD Test Guideli		
Speci Resu	canoic acid: ies: Rabbit lt: Irreversible effects o od: OECD Test Guideli		
Speci	nolamine: ies: Rabbit lt: Irreversible effects o	on the eye	
norco Speci Resu Metho	azolium compounds, bco alkyl, hydroxides ies: Rabbit It: Irreversible effects o od: OECD Test Guideli arks: Based on data fro	s , sodium salts: on the eye ine 405	y)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-
Speci	L actic acid: ies: Chicken eye lt: Irreversible effects o	on the eye	



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II

Respiratory or skin sensitization

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

Product:

Assessment: Does not cause skin sensitization.

Ingredients:

Propylene glycol:

Test Type: Maximization Test (GPMT) Routes of exposure: Skin contact Species: Guinea pig Result: negative

Ethanol:

Test Type: Local lymph node assay (LLNA) Routes of exposure: Skin contact Species: Mouse Result: negative

Dodecanoic acid:

Test Type: Maximization Test (GPMT) Routes of exposure: Skin contact Species: Guinea pig Result: negative

Ethanolamine:

Test Type: Maximization Test (GPMT) Routes of exposure: Skin contact Species: Guinea pig Result: negative

Imidazolium compounds, 1-[2-(carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5-dihydro-2norcoco alkyl, hydroxides, sodium salts:

Test Type: Maximization Test (GPMT) Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative Remarks: Based on data from similar materials

I-(+)-Lactic acid:

Test Type: Buehler Test Routes of exposure: Skin contact Species: Guinea pig Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients: Propylene glycol:



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Geno	otoxicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)
Geno	otoxicity in vivo	:	Test Type: In vivo Species: Mouse Application Route Result: negative	micronucleus test : Intraperitoneal injection
Ethai	nol·			
	otoxicity in vitro	:	Test Type: In vitro Result: negative	o mammalian cell gene mutation test
Geno	otoxicity in vivo	:	Test Type: Roden Species: Mouse Application Route Result: negative	t dominant lethal test (germ cell) (in vivo) : Ingestion
II Dode	ecanoic acid:			
	otoxicity in vitro	:	Method: OECD Te Result: negative	o mammalian cell gene mutation test est Guideline 476 on data from similar materials
II Ether				
	nolamine: otoxicity in vitro	:	Test Type: In vitro Method: OECD Te Result: negative	e mammalian cell gene mutation test est Guideline 476
Geno	otoxicity in vivo	:	Test Type: Mamm cytogenetic assay Species: Mouse Application Route Method: OECD Te Result: negative	: Ingestion
 Imida	zalium aamnaunda 1	[2]	oorboyymothoyy)	othull 1 (corboyumothul) 1 E dibudro 2
	oco alkyl, hydroxides, i			ethyl]-1-(carboxymethyl)-4,5-dihydro-2-
	otoxicity in vitro	:	Test Type: Chrom Method: OECD Te Result: negative	osome aberration test in vitro est Guideline 473 on data from similar materials
		:	Result: negative	ial reverse mutation assay (AMES) on data from similar materials
		:	Method: OECD Te Result: negative	o mammalian cell gene mutation test est Guideline 476 on data from similar materials
	Lactic acid: otoxicity in vitro	:		osome aberration test in vitro on: with and without metabolic activation



enicity ied based on availa t <u>s:</u> e glycol: Rat n Route: Ingestion	: Test Type: Ba Metabolic activ Result: negativ	ed on data from similar materials cterial reverse mutation assay (AMES) vation: with and without metabolic activation ve
ied based on availa t <u>s:</u> e glycol: Rat n Route: Ingestion	Metabolic activ Result: negativ	vation: with and without metabolic activation
ied based on availa t <u>s:</u> e glycol: Rat n Route: Ingestion	ble information.	
e glycol: Rat n Route: Ingestion		
Rat n Route: Ingestion		
time: 2 Years gative		
c acid: Rat n Route: Ingestion time: 2 Years gative Based on data from	n similar materials	
		his product present at levels greater than or dentified as probable, possible or confirmed on by IARC.
		his product present at levels greater than or dentified as a carcinogen or potential carcino-
		his product present at levels greater than or dentified as a known or anticipated carcinogen
tive toxicity		
ied based on availa	ble information.	
ts:		
e glycol: fertility	: Species: Mous Application Ro Result: negativ	oute: Ingestion
fetal development	: Test Type: Em Species: Mous Application Ro Result: negativ	oute: Ingestion
fertility	Species: Mous Application Ro	
		fertility : Test Type: Tw Species: Mous Application Ro Result: negativ Species: Mous Application Ro



		De		
		Re	sult: negative	
Dodeca	anoic acid:			
	on fertility	rep Sp Ap Me Re	oroduction/deve ecies: Rat plication Route whod: OECD To sult: negative	ined repeated dose toxicity study with the elopmental toxicity screening test :: Ingestion est Guideline 422 on data from similar materials
Effects	on fetal development	rep Sp Ap Me Re	oroduction/deve ecies: Rat plication Route whod: OECD To sult: negative	ined repeated dose toxicity study with the elopmental toxicity screening test :: Ingestion est Guideline 422 on data from similar materials
II Ethano	lamine:			
	on fertility	Sp Ap	st Type: Two-g ecies: Rat plication Route sult: negative	eneration reproduction toxicity study
Effects	on fetal development	Sp Ap Me	ecies: Rat plication Route	vo-fetal development :: Ingestion est Guideline 414
	single exposure			
Not clas	ssified based on availa	ble info	rmation.	
Ingredi	ents:			

Ethanolamine: Assessment: May cause respiratory irritation.

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.

Repeated dose toxicity

Ingredients:



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Speci NOAE Applic	ylene glycol: es: Rat EL: 1,700 mg/kg cation Route: Ingestion sure time: 2 y		
NOAE Applic	nol: es: Rat EL: 2,400 mg/kg cation Route: Ingestion sure time: 2 y		
Speci NOAE Applic	canoic acid: es: Rat EL: 10,000 mg/kg cation Route: Ingestion sure time: 18 w		
Speci NOAE Applic	tolamine: es: Rat EL: 150 mg/m3 cation Route: inhalation sure time: 28 d	(dust/mist/fume)	
norco Speci NOAE LOAE Applio Expos	zolium compounds, 1 bco alkyl, hydroxides, es: Rat, female EL: 250 mg/kg EL: 500 mg/kg cation Route: Ingestion sure time: 28 d arks: Based on data from	sodium salts:	(y)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-
Speci NOAE Applic	_actic acid: es: Rat EL: >= 886 mg/kg cation Route: Skin conta sure time: 13 w	act	
-	ation toxicity assified based on avail	able information.	
	12. ECOLOGICAL INF	ORMATION	
	oxicity dients:		
Prop	/lene glycol: ity to fish	: LC50 (Oncorhy Exposure time:	/nchus mykiss (rainbow trout)): 40,613 mg/l 96 h
	ity to daphnia and othe ic invertebrates	r : EC50 (Cerioda Exposure time:	phnia dubia (water flea)): 18,340 mg/l 48 h



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Toxicity	Toxicity to algae		EC50 (Skeletonema costatum (marine diatom)): 19,000 mg/l Exposure time: 48 h Method: OECD Test Guideline 201	
Toxicity toxicity	y to fish (Chronic)	:	Chronic Toxicity V Exposure time: 30	
aquatio	y to daphnia and other invertebrates ic toxicity)	:	NOEC (Ceriodaph Exposure time: 7	nnia dubia (water flea)): 29,000 mg/l d
Toxicity	y to bacteria	:	NOEC (Pseudome Exposure time: 18	onas putida): > 20,000 mg/l 3 h
Ethanc	bl:			
Toxicity	y to fish	:	LC50 (Pimephales Exposure time: 96	s promelas (fathead minnow)): > 1,000 mg/l እ h
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 1,000 mg/l 3 h
Toxicity	y to algae	:	EC50 (Chlorella v Exposure time: 72 Method: OECD Te	
aquatio	y to daphnia and other invertebrates ic toxicity)	:	NOEC (Daphnia r Exposure time: 9	nagna (Water flea)): 9.6 mg/l d
Toxicity	y to bacteria	:	EC50 (Photobacte Exposure time: 0.	erium phosphoreum): 32.1 mg/l 25 h
Dodec	anoic acid:			
Toxicity	y to fish	:	LC50 (Oryzias lati Exposure time: 96 Method: OECD Te	
	y to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxicity	y to algae	:	Exposure time: 72 Method: OECD Te	
			Exposure time: 72 Method: OECD Te	
Toxicity toxicity	y to fish (Chronic)	:	Exposure time: 28	o (zebra fish)): 2 mg/l 3 d on data from similar materials



Toxicity to daphnia and other auditic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.47 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 Toxicity to bacteria : EC10 (Pseudomonas putida): > 1,000 mg/l Exposure time: 30 min Method: OECD Test Guideline 209 Ethanolamine: : CC50 (Cyprinus carpio (Carp)): 349 mg/l Exposure time: 96 h Toxicity to daphnia and other : 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 Toxicity to fish (Chronic : NOEC (Oryzias latipes (Orange-red killifish)): 1.24 mg/l Exposure time: 72 h Toxicity to fish (Chronic : NOEC (Oryzias latipes (Orange-red killifish)): 1.24 mg/l Exposure time: 21 d Toxicity to daphnia and other : NOEC Opylinia magna (Water flea)): 0.85 mg/l Exposure time: 21 d Toxicity to fish (Chronic : NOEC Opylinia magna (Water flea)): 0.85 mg/l Exposure time: 21 d Toxicity to daphnia and other : NOEC Opylinia magna (Water flea)): 0.85 mg/l Exposure time: 21 d Toxicity to bacteria : EC50 (Pseudomonas putida): 110 mg/l Exposure time: 21 d Toxicity to bacteria : EC50 (Oncorhynchus mykiss (rainbow trout)): 4.2 mg/l Exposure time: 21 d Toxicity to bacteria : EC50 (Daphnia magna (Water flea)): 17.9 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Baseed on data from similar materials	Version 2.0	Revision Date: 04/17/2015		SDS Number: 786-00005	Date of last issue: 03/19/2015 Date of first issue: 11/24/2014
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				mg/l Exposure time: 72 Method: Directive	2 h 67/548/EEC, Annex V, C.3.



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П				
l-(+)-l	L actic acid: ity to fish	:	LC50 (Oncorh Exposure time	/nchus mykiss (rainbow trout)): 130 mg/l 96 h
	Toxicity to daphnia and other aquatic invertebrates		Exposure time	a magna (Water flea)): 250 mg/l 48 h 9 Test Guideline 202
Toxic	Toxicity to algae		g/l Exposure time	strum capricornutum (fresh water algae)): 1.9 72 h 9 Test Guideline 201
			Exposure time	trum capricornutum (fresh water algae)): 3.5 g/l 72 h 9 Test Guideline 201
Toxic	ity to bacteria	:	EC50: > 100 m Exposure time Method: OECE	
II Persi	stence and degradabil	ity		
Ingre	dients:			
	ylene glycol: egradability	:	Biodegradation Exposure time	
Ethai				
	egradability	:	Result: Readily Biodegradatior Exposure time	
	canoic acid:			
Biode	egradability	:	Biodegradation Exposure time	
II Ethai	nolamine:			
Biode	egradability	:	Result: Readily Biodegradation Exposure time	
				y)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-
	oco alkyl, hydroxides, s egradability		Result: Readily Biodegradation Exposure time Method: OEC	28 d) Test Guideline 301F
			Remarks: Base	ed on data from similar materials



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	I-(+)-Lactic acid: Biodegradability		t readily biodegradable. ation: 67 % time: 20 d
Bioac	cumulative potential		
Propy Partiti	dients: /lene glycol: on coefficient: n- ol/water	: log Pow: -	1.07
	ol: on coefficient: n- ol/water	: log Pow: -	0.35
	canoic acid: cumulation		ish tration factor (BCF): 234 - 288 Based on data from similar materials
	on coefficient: n- ol/water	: Pow: 4.6	
Partiti	olamine: on coefficient: n- ol/water	: log Pow: -	1.91
Partiti	.actic acid: on coefficient: n- ol/water	: log Pow: -	D.6
	ity in soil ta available		
Other	adverse effects ta available		

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. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulation



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UNRTDG UN number Proper shipping name Class Packing group Labels		: UN 1170 : ETHYL ALCC : 3 : III : 3	HOL SOLUTION	
UN/IE Prope Class Packi Label Packi aircra Packi	ng group s ng instruction (cargo	: UN 1170 : Ethanol soluti : 3 : III : Flammable Li : 366 : 355		
UN ni Prope Class Packi Label EmS	ng group s	: UN 1170 : ETHYL ALCC (Triclosan) : 3 : III : 3 : F-E, S-D : yes	HOL SOLUTION	
Not a	pplicable for product as	-	ARPOL 73/78 and the IBC Code	
49 CF Un/IE	estic regulation FR D/NA number er shipping name	: UN 1170 : ETHYL ALCC	HOL SOLUTIONS	
Label ERG	ng group	: 3 : III : FLAMMABLE : 127 : yes (Triclosar		

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

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.

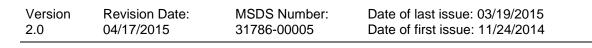


Versio 2.0	n Revision 04/17/2			DS Number: 786-00005		ast issue: 03/19/20 rst issue: 11/24/20		
S	ARA 311/312	Hazards	:	Fire Hazard Acute Health Haz	ard			
S	ARA 302		:		No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
S	SARA 313 :		This material 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.					
U	S State Regul	ations						
Р	ennsylvania F	Right To Know	N					
		Water				7732-18-5	50 - 70 %	
		Propylene gly	/col			57-55-6	10 - 20 %	
	Ethanol					64-17-5	5 - 10 %	
	Dodecanoic acid Ethanolamine		acid			143-07-7	5 - 10 %	
			Э			141-43-5	1 - 5 %	
		Propan-2-ol				67-63-0	0.1 - 1 %	
Ν	ew Jersey Rig	ght To Know						
		Water				7732-18-5	50 - 70 %	
		Propylene gly	/col			57-55-6	10 - 20 %	
		Ethanol				64-17-5	5 - 10 %	
		Dodecanoic a				143-07-7	5 - 10 %	
		Ethanolamine	Э			141-43-5	1 - 5 %	
С	California Prop 65			a to cause	ain any chemicals k cancer, birth, or ar			
	The ingredients of this product a AICS		are reported in th All ingredients list		•			

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)

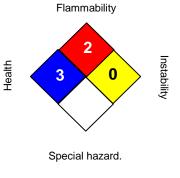




SECTION 16. OTHER INFORMATION

Further information





HMIS III:

HEALTH	3
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH NIOSH REL		USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits
OSHA Z-1		USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
US WEEL	:	USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	:	8-hour time weighted average
US WEEL / TWA	:	8-hr TWA
Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/
Revision Date	:	04/17/2015

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

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, in-



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cluding an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8