

Version 2.1	Revision Date: 06/03/2015	MSDS Numl 31786-0000	
SECTION	1. IDENTIFICATION		
Produ	uct name		N® Medicated Foam Handwash with Advanced zers and Triclosan
Manu	ufacturer or supplier's	details	
	pany name of supplier		ndustries, Inc.
Addre	ess	: One GO Akron Ol	DJO Plaza, Suite 500 H 44311
Telep	bhone	: 1 (330) 2	255-6000
Emer	gency telephone	: 1-800-42	24-9300 CHEMTREC
Reco	mmended use of the c	hemical and	restrictions on use
	mmended use		erial Soap
Restr	ictions on use	consume foreseea specifica exempt f While thi contains proper us as well a spills. Th employe intended	a personal care or cosmetic product that is safe for ers and other users under normal and reasonably able use. Cosmetics and consumer products, ally defined by regulations around the world, are from the requirement of an SDS for the consumer. is material is not considered hazardous, this SDS a valuable information critical to the safe handling and use of the product for industrial workplace conditions as unusual and unintended exposures such as large his SDS should be retained and available for ees and other users of this product. For specific d-use guidance, please refer to the information d on the package or instruction sheet.

### SECTION 2. HAZARDS IDENTIFICATION

GHS Classification	
Flammable liquids	: Category 3
Serious eye damage	: Category 1
GHS Label element Hazard pictograms	



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Signal Word Hazard Statements		: Danger	·				
Hazard Statements		: H226 Flammable H318 Causes se	rious eye damage.				
Pre	cautionary Statements	No smoking. P233 Keep conta P241 Use explose equipment. P242 Use only n P243 Take preca P280 Wear prote <b>Response:</b> P303 + P361 + F all contaminated P305 + P351 + F water for several and easy to do. 0 CENTER or doct <b>Storage:</b> P403 + P235 Sto <b>Disposal:</b>	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. P353 IF ON SKIN (or hair): Take off immediately clothing. Rinse skin with water/shower. P358 + P310 IF IN EYES: Rinse cautiously with minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON tor/ physician. ore in a well-ventilated place. Keep cool. contents/ container to an approved waste				

### 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.



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		When sympton advice.	ms persist or in all cases of doubt seek medical			
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.			
In case of eye contact		for at least 15 If easy to do, r	<ul> <li>In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> <li>Get medical attention immediately.</li> </ul>			
If swallowed		Get medical a	<ul> <li>If swallowed, DO NOT induce vomiting.</li> <li>Get medical attention if symptoms occur.</li> <li>Rinse mouth thoroughly with water.</li> </ul>			
Most important symptoms and effects, both acute and delayed		: Causes seriou	is eye damage.			
Pro	tection of first-aiders	and use the re	onders should pay attention to self-protection, ecommended personal protective equipment ential for exposure exists.			
Not	es to physician	: Treat sympton	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



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		protective equipment ighters	:		e, wear self-contained breathing apparatus. ective equipment.
SECT	ION 6.	ACCIDENTAL RELE	ASE	MEASURES	
р	rotectiv	al precautions, ve equipment and ncy procedures	:		ective equipment. ing advice and personal protective
E	nviron	mental precautions	:	Prevent further lea Prevent spreading barriers). Retain and dispos	e environment must be avoided. akage or spillage if safe to do so. g over a wide area (e.g. by containment or oil se of contaminated wash water. should be advised if significant spillages ed.
	Methods and materials for containment and cleaning up		:	Suppress (knock jet. For large spills, pr containment to ke can be pumped, s container. Clean up remainir absorbent. Local or national r disposal of this m employed in the c determine which r Sections 13 and 1	s should be used. absorbent material. down) gases/vapors/mists with a water spray rovide diking or other appropriate ep material from spreading. If diked material atore recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items leanup of releases. You will need to egulations are applicable. 5 of this SDS provide information regarding tional 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	<ul> <li>Avoid inhalation of vapor or mist.</li> <li>Do not swallow.</li> <li>Do not get in eyes.</li> <li>Avoid prolonged or repeated contact with skin.</li> </ul>



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		practice. Non-sparking too Keep container ti Keep away from Take precautiona	ance with good industrial hygiene and safety Is should be used. ghtly closed. heat and sources of ignition. ary measures against static discharges. yent spills, waste and minimize release to the		
Conditions for safe storage		<ul> <li>Keep in properly labeled containers.</li> <li>Keep tightly closed.</li> <li>Keep in a cool, well-ventilated place.</li> <li>Store in accordance with the particular national regulations.</li> <li>Keep away from heat and sources of ignition.</li> </ul>			
Materials to avoid		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.



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Imidaz (carbo: (carbo:	anoic acid olium compounds, 1-[2- xymethoxy)ethyl]-1- xymethyl)-4,5-dihydro-2- to alkyl, hydroxides, n salts	143-07-7 68650-39-5	
	actic acid	79-33-4	
Engine	eering measures	Use only in an ventilation.	place exposure concentrations. area equipped with explosion proof exhaust exhaust ventilation.
Perso	nal protective equipme	ent	
	atory protection	: General and lo maintain vapo concentrations unknown, app Follow OSHA use NIOSH/M by air purifying hazardous che supplied respir release, expos	ocal exhaust ventilation is recommended to r exposures below recommended limits. Where s are above recommended limits or are ropriate respiratory protection should be worn. respirator regulations (29 CFR 1910.134) and SHA approved respirators. Protection provided g respirators against exposure to any emical is limited. Use a positive pressure air rator if there is any potential for uncontrolled sure levels are unknown, or any other where air purifying respirators may not provide ection.
Hand p Mate	protection erial	: Impervious glo	oves
Mate	erial	: Flame retarda	nt gloves
Rem	narks	on the concen time is not det For special ap resistance to c gloves with the	s to protect hands against chemicals depending tration specific to place of work. Breakthrough ermined for the product. Change gloves often! plications, we recommend clarifying the chemicals of the aforementioned protective e glove manufacturer. Wash hands before the end of workday.
Eye pr	otection	Chemical resis	wing personal protective equipment: stant goggles must be worn. a likely to occur, wear:
Skin a	nd body protection	resistance dat potential. Wear the follo Flame retarda Skin contact m	riate protective clothing based on chemical a and an assessment of the local exposure wing personal protective equipment: nt antistatic protective clothing. hust be avoided by using impervious protective es, aprons, boots, etc).



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Hygier	ne measures	:	located close to When using do	e flushing systems and safety showers are the working place. not eat, drink or smoke. ated clothing before re-use.
SECTION	9. PHYSICAL AND CHE	EMIC	CAL PROPERTI	ES
Appea	arance	:	liquid	
Color		:	clear, Colorless	s to pale yellow
Odor		:	slight alcoholic	
Odor 7	Threshold	:	No data availal	ble
рН		:	7.8 - 9.7	
Melting	g point/freezing point	:	No data availal	ble
Initial I range	boiling point and boiling	:	No data availal	ble
Flash	point	:	56.00 °C	
Evapo	pration rate	:	No data availal	ble
Flamm	nability (solid, gas)	:	Not applicable	
Upper	explosion limit	:	No data availal	ble
Lower	explosion limit	:	No data availal	ble
Vapor	pressure	:	No data availal	ble
Relativ	ve vapor density	:	No data availal	ble
Densit	ÿ	:	1.00 g/cm3	
	lity(ies) ter solubility	:	soluble	
	on coefficient: n- bl/water	:	Not applicable	
Autoig	nition temperature	:	No data availal	ble
Decon	nposition temperature	:	The substance	or mixture is not classified self-reactive.
Viscos Visc	sity cosity, kinematic	:	10 - 20 mm2/s	(20.00 °C)



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		ive properties ng properties		Not explosive The substance o	r mixture is not classified as oxidizing.
SECTION 10. STABILITY AND REACTIVITY					
	Reactiv	vity	:	Not classified as	a reactivity hazard.
	Chemi	cal stability	:	Stable under nor	mal conditions.
	Possib tions	ility of hazardous reac-	:		d and vapor. n explosive mixture with air. trong oxidizing agents.
	Conditi	ons to avoid	:	Heat, flames and	d sparks.
	Incomp	patible materials	:	Oxidizing agents	
	Hazarc produc	lous decomposition ts	:	No hazardous de	ecomposition products are known.

## SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact Ingestion Eye contact					
Acute toxicity					
Not classified based on available	ble information.				
Product:					
Acute oral toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method				
Acute inhalation toxicity	: Acute toxicity estimate: > 40 mg/l Exposure time: 4 h Test atmosphere: vapor Method: Calculation method				
Acute dermal toxicity	: Acute toxicity estimate: > 5,000 mg/kg Method: Calculation method				
Ingredients: 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				



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		Assessment: The substance or mixture has no acute inhalation toxicity
Acute	dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity</li> </ul>
<b>Ethar</b> Acute	nol: oral toxicity	: LD50 (Rat): > 5,000 mg/kg
	inhalation toxicity	: LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapor
	canoic acid: oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute	inhalation toxicity	<ul> <li>LC50 (Rat): &gt; 0.162 mg/l Exposure time: 4 h Test atmosphere: vapor Remarks: Based on data from similar materials</li> </ul>
Acute	dermal toxicity	<ul> <li>LD50 (Rabbit): &gt; 2,000 mg/kg Assessment: The substance or mixture has no acute derma toxicity Remarks: Based on data from similar materials</li> </ul>
	olamine:	: LD50 (Rat): 1,515 mg/kg
Acute	inhalation toxicity	<ul> <li>Acute toxicity estimate: 11 mg/l Test atmosphere: vapor Method: Expert judgment Remarks: Based on harmonised classification in EU regulat 1272/2008, Annex VI</li> </ul>
Acute	dermal toxicity	: LD50 (Rabbit): 1,025 mg/kg
norco	zolium compounds, bco alkyl, hydroxides oral toxicity	1-[2-(carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5-dihydro-2- s, sodium salts: : LD50 (Rat, male): > 5,000 mg/kg
rioute		Remarks: Based on data from similar materials
Acute	dermal toxicity	<ul> <li>LD50 (Rat): &gt; 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials</li> </ul>
	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



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			Method: OECD	Test Guideline 403
	Acute	dermal toxicity	: LD50 (Rabbit): :	> 2,000 mg/kg
	Skin d	orrosion/irritation		
	Not cla	assified based on avai	lable information.	
	<u>Produ</u>	<u>ct:</u>		
	Result	: No skin irritation		
	Propy Specie Metho Result Ethan Specie Metho Result	lients: lene glycol: es: Rabbit d: OECD Test Guideli : No skin irritation ol: es: Rabbit d: OECD Test Guideli : No skin irritation canoic acid: es: Rabbit		
	Metho	d: OECD Test Guideli	ne 404	
	<b>Ethan</b> Specie	: No skin irritation <b>olamine:</b> es: Rabbit : Corrosive after 3 mir	nutes to 1 hour of expo	osure
	norco Specie Metho	<b>co alkyl, hydroxides</b> es: Rabbit d: OECD Test Guideli	, sodium salts:	y)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-
		: No skin irritation rks: Based on data fro	m similar materials	

I-(+)-Lactic acid: Species: Rabbit Result: Skin irritation

#### Serious eye damage/eye irritation

Causes serious eye damage.

### Ingredients:

**Propylene glycol:** Species: Rabbit Result: No eye irritation Method: OECD Test Guideline 405

Ethanol: Species: Rabbit



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Result: Irritation to eyes, reversing within 21 days Method: OECD Test Guideline 405

### Dodecanoic acid:

Species: Rabbit Result: Irreversible effects on the eye Method: OECD Test Guideline 405

### Ethanolamine:

Species: Rabbit Result: Irreversible effects on the eye

Imidazolium compounds, 1-[2-(carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5-dihydro-2norcoco alkyl, hydroxides, sodium salts: Species: Rabbit Result: Irreversible effects on the eve

Method: OECD Test Guideline 405 Remarks: Based on data from similar materials

I-(+)-Lactic acid: Species: Chicken eye Result: Irreversible effects on the eye

### 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



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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:	
Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	: Test Type: In vivo micronucleus test Species: Mouse Application Route: Intraperitoneal injection Result: negative
Ethanol:	
Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Result: negative
Genotoxicity in vivo	: Test Type: Rodent dominant lethal test (germ cell) (in vivo) Species: Mouse Application Route: Ingestion Result: negative
Dodecanoic acid:	
Genotoxicity in vitro	<ul> <li>Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials</li> </ul>
Ethanolamine:	
Genotoxicity in vitro	: Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
Genotoxicity in vivo	: Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)



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		Species: Mouse Application Rou Method: OECD Result: negative	te: Ingestion Test Guideline 474
			y)ethyl]-1-(carboxymethyl)-4,5-dihydro-2-
	oco alkyl, hydroxides, otoxicity in vitro	: Test Type: Chro Method: OECD Result: negative	omosome aberration test in vitro Test Guideline 473 e d on data from similar materials
		: Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
		: Test Type: In vi Method: OECD Result: negative	tro mammalian cell gene mutation test Test Guideline 476
l-(+)-	Lactic acid:		
	otoxicity in vitro	Metabolic active Result: negative	omosome aberration test in vitro ation: with and without metabolic activation e d on data from similar materials
			erial reverse mutation assay (AMES) ation: with and without metabolic activation
	inogenicity		
	lassified based on avail	able information.	
<b>Prop</b> Spec Appli Expo	ylene glycol: ies: Rat cation Route: Ingestion sure time: 2 Years lt: negative		
Spec Appli Expo Resu	Lactic acid: ies: Rat cation Route: Ingestion sure time: 2 Years lt: negative arks: Based on data fror	n similar materials	
IAR			is product present at levels greater than or
			entified as probable, possible or confirmed

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



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				qual to 0.1% is ider en by OSHA.	ntified as a carcinogen or potential carcino-
	NTP		e		product present at levels greater than or ntified as a known or anticipated carcinogen
	Repro	ductive toxicity			
	Not cla	ssified based on availa	ble	information.	
	Ingred	ients:			
		ene glycol: on fertility	:	Species: Mouse Application Route Result: negative	: Ingestion
	Effects	on fetal development	:	Test Type: Embry Species: Mouse Application Route Result: negative	o-fetal development : Ingestion
	Ethanc	ol:			
	Effects	on fertility	:	Test Type: Two-g Species: Mouse Application Route Method: OECD Te Result: negative	
	Dodec	anoic acid:			
		on fertility	:	reproduction/deve Species: Rat Application Route Method: OECD Te Result: negative	est Guideline 422
	Effects	on fetal development	:	reproduction/dever Species: Rat Application Route Method: OECD Te Result: negative	
		olamine: on fertility	:	Test Type: Two-g Species: Rat Application Route Result: negative	eneration reproduction toxicity study : Ingestion
	Effects	on fetal development	:	Test Type: Embry Species: Rat	ro-fetal development



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Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative

### STOT-single exposure

Not classified based on available information.

#### Ingredients:

Ethanolamine:

Assessment: May cause respiratory irritation.

#### I-(+)-Lactic acid:

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:

Propylene glycol: Species: Rat NOAEL: 1,700 mg/kg Application Route: Ingestion Exposure time: 2 y

#### Ethanol:

Species: Rat NOAEL: 2,400 mg/kg Application Route: Ingestion Exposure time: 2 y

#### Dodecanoic acid:

Species: Rat NOAEL: 10,000 mg/kg Application Route: Ingestion Exposure time: 18 w

#### Ethanolamine:

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

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



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Species: Rat, female NOAEL: 250 mg/kg LOAEL: 500 mg/kg Application Route: Ingestion Exposure time: 28 d Remarks: Based on data from similar materials

### I-(+)-Lactic acid:

Species: Rat NOAEL: >= 886 mg/kg Application Route: Skin contact Exposure time: 13 w

### Aspiration toxicity

Not classified based on available information.

### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

<u>Ingredients:</u> 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
Ethanol:		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201



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aqu	icity to daphnia and other atic invertebrates ronic toxicity)	: NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d		
To>	icity to bacteria	EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h		
-	<b>decanoic acid:</b> iicity to fish	LC50 (Oryzias latipes (Japanese medaka)): 5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203		
	icity to daphnia and other atic invertebrates	: EC50 (Daphnia magna (Water flea)): 3.6 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
То>	icity to algae	<ul> <li>EC50 (Selenastrum capricornutum (green algae)): &gt; 7.6 m</li> <li>Exposure time: 72 h</li> <li>Method: OECD Test Guideline 201</li> <li>Remarks: No toxicity at the limit of solubility.</li> </ul>	∣g/l	
		NOEC (Selenastrum capricornutum (green algae)): > 7.6 m Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.	ng/l	
	icity to fish (Chronic city)	: NOEC (Danio rerio (zebra fish)): 2 mg/l Exposure time: 28 d Remarks: Based on data from similar materials		
aqu	cicity to daphnia and other atic invertebrates ronic toxicity)	: NOEC (Daphnia magna (Water flea)): 0.47 mg/l Exposure time: 21 d Method: OECD Test Guideline 211		
To>	icity to bacteria	<ul> <li>EC10 (Pseudomonas putida): &gt; 1,000 mg/l</li> <li>Exposure time: 30 min</li> <li>Method: OECD Test Guideline 209</li> </ul>		
	anolamine: cicity to fish	: LC50 (Cyprinus carpio (Carp)): 349 mg/l Exposure time: 96 h		
	icity to daphnia and other atic invertebrates	: EC50 (Daphnia magna (Water flea)): 65 mg/l Exposure time: 48 h		
To>	icity to algae	: ErC50 (Selenastrum capricornutum (green algae)): 2.8 mg Exposure time: 72 h	ı/I	
		NOEC (Scenedesmus capricornutum (fresh water algae)): mg/l Exposure time: 72 h	1	
To>	icity to fish (Chronic	: NOEC (Oryzias latipes (Orange-red killifish)): 1.24 mg/l		



Vers 2.1	ion	Revision Date: 06/03/2015		DS Number: 786-00006	Date of last issue: 04/17/2015 Date of first issue: 11/24/2014	
	toxicity)	)		Exposure time: 41	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		
	Imidazolium compounds, 1- norcoco alkyl, hydroxides, s Toxicity to fish		sodi	um salts: LC50 (Oncorhync Exposure time: 96 Method: OECD To	ethyl]-1-(carboxymethyl)-4,5-dihydro-2- hus mykiss (rainbow trout)): 4.2 mg/l 5 h est Guideline 203 on data from similar materials	
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te		
	Toxicity	r to algae	:	mg/l Exposure time: 72 Method: Directive	rchneriella subcapitata (green algae)): 3.2 2 h 67/548/EEC, Annex V, C.3. on data from similar materials	
				mg/l Exposure time: 72 Method: Directive	chneriella subcapitata (green algae)): 10 2 h 67/548/EEC, Annex V, C.3. on data from similar materials	
	<b>I-(+)-La</b> Toxicity	<b>ectic acid:</b> to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 130 mg/l እ h	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te		
	Toxicity	r to algae	:	g/l Exposure time: 72 Method: OECD Te	est Guideline 201 m capricornutum (fresh water algae)): 3.5 g/l ² h	
	Toxicity	v to bacteria	:	EC50: > 100 mg/l Exposure time: 3 Method: OECD Te	h	



rsion	Revision Date: 06/03/2015	MSDS Number:Date of last issue: 04/17/201531786-00006Date of first issue: 11/24/2014
Persi	stence and degrada	bility
Propy	<u>dients:</u> ylene glycol: gradability	: Result: Readily biodegradable. Biodegradation: 98.3 % Exposure time: 28 d Method: OECD Test Guideline 301F
<b>Ethar</b> Biode	<b>iol:</b> gradability	: Result: Readily biodegradable. Biodegradation: 84 % Exposure time: 20 d
	<b>canoic acid:</b> gradability	: Result: Readily biodegradable. Biodegradation: 86 % Exposure time: 30 d Method: OECD Test Guideline 301D
	nolamine: gradability	: Result: Readily biodegradable. Biodegradation: > 90 % Exposure time: 21 d
norco	<b>zolium compounds oco alkyl, hydroxide</b> gradability	<ul> <li>, 1-[2-(carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5-dihydro-2</li> <li>s, sodium salts:         <ul> <li>Result: Readily biodegradable.</li> <li>Biodegradation: 79 %</li> <li>Exposure time: 28 d</li> <li>Method: OECD Test Guideline 301F</li> <li>Remarks: Based on data from similar materials</li> </ul> </li> </ul>
• •	<b>_actic acid:</b> gradability	: Result: Not readily biodegradable. Biodegradation: 67 % Exposure time: 20 d
Bioad	cumulative potentia	al
<b>Prop</b> y Partiti	<u>dients:</u> ylene glycol: ion coefficient: n- ol/water	: log Pow: -1.07
	<b>nol:</b> ion coefficient: n- ol/water	: log Pow: -0.35
	canoic acid: cumulation	: Species: Fish Bioconcentration factor (BCF): 234 - 288 Remarks: Based on data from similar materials



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Partition coefficient: n- octanol/water		: Pow: 4.6	
Ethanolamine: Partition coefficient: n- octanol/water		: log Pow: -1.91	
I-(+)-Lactic acid: Partition coefficient: n- octanol/water		: log Pow: -0.6	
	<b>obility in soil</b> o data available		
<b>Other adverse effects</b> No data available			

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods Waste from residues	: Dispose of in accordance with local regulations.
Contaminated packaging	<ul> <li>Dispose of as unused product.</li> <li>Empty containers should be taken to an approved waste handling site for recycling or disposal.</li> <li>Do not burn, or use a cutting torch on, the empty drum.</li> </ul>

### SECTION 14. TRANSPORT INFORMATION

### International Regulation

: UN 1170
: ETHYL ALCOHOL SOLUTION
: 3
: 111
: 3
: UN 1170
: Ethanol solution
: 3
: 111
: Flammable Liquids
: 366
: 355



Versic 2.1	on Revision Date: 06/03/2015	MSDS Number: 31786-00006	Date of last issue: 04/17/2015 Date of first issue: 11/24/2014
<b>IMDG-Code</b> UN number Proper shipping name Class Packing group Labels EmS Code Marine pollutant		: UN 1170 : ETHYL ALCOF (Triclosan) : 3 : III : 3 : F-E, S-D : yes	IOL SOLUTION
	ransport in bulk accord	-	RPOL 73/78 and the IBC Code
	omestic regulation		
U	<b>9 CFR</b> IN/ID/NA number Proper shipping name	: UN 1170 : ETHYL ALCOH	IOL SOLUTIONS
P	Class Packing group abels RG Code farine pollutant	: 3 : III : FLAMMABLE L : 127 : yes (Triclosan)	IQUID

### **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.

SARA 311/312 Hazards	: Fire Hazard 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.

#### US State Regulations

Pennsylvania Right To Know				
Water	7732-18-5	50 - 70 %		
Propylene glycol	57-55-6	10 - 20 %		
Ethanol	64-17-5	5 - 10 %		

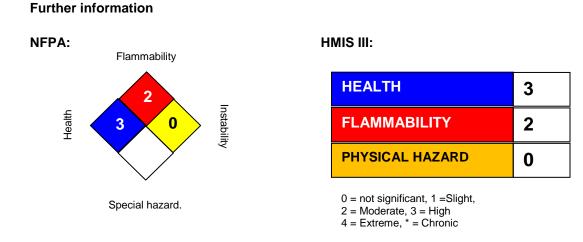


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	Dodecano Ethanolam Propan-2-0	line	143-07-7 141-43-5 67-63-0	5 - 10 % 1 - 5 % 0.1 - 1 %
New	Jersey Right To Kno	w		
	Water		7732-18-5	50 - 70 %
	Propylene	glycol	57-55-6	10 - 20 %
	Ethanol		64-17-5	5 - 10 %
	Dodecano	ic acid	143-07-7	5 - 10 %
	Ethanolam	line	141-43-5	1 - 5 %
Califo	California Prop 65		bes not contain any chemicals nia to cause cancer, birth, or efects.	
The i	ngredients of this pr	oduct are reported in	the following inventories:	
AICS		: All ingredients I	isted or exempt.	

### 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**



### Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
US WEEL ACGIH / TWA	<ul> <li>: USA. Workplace Environmental Exposure Levels (WEEL)</li> <li>: 8-hour, time-weighted average</li> </ul>



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ACGIH / STEL NIOSH REL / TWA		<ul> <li>Short-term exposure limit</li> <li>Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek</li> </ul>			
NIOSH REL / ST OSHA Z-1 / TWA US WEEL / TWA		at any : 8-hour	<ul> <li>STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday</li> <li>8-hour time weighted average</li> <li>8-hr TWA</li> </ul>		
Sources of key data used to compile the Material Safety Data Sheet		eCherr	: Internal technical data, data from raw material SDSs, OEC eChem Portal search results and European Chemicals Ag cy, http://echa.europa.eu/		
Revision Date		: 06/03/2	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, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8