

Version 1.1	Revision Date: 02/16/2015		SDS Number: 854-00002	Date of last issue: 11/24/2014 Date of first issue: 11/24/2014	
SECTION	1. IDENTIFICATION				
Product name		:	PROVON® Antib	acterial Plum Foam Handwash	
Manu	facturer or supplier's	deta	iils		
Comp	pany name of supplier	:	GOJO Industries,	Inc.	
Addre	988	:	One GOJO Plaza, Suite 500 Akron OH 44311		
Telephone		:	1 (330) 255-6000		
Emergency telephone		:	1-800-424-9300	CHEMTREC	
Recommended use of the o		chen	nical and restriction	ons on use	
Recommended use		:	Antibacterial Soa	0	
Restrictions on use		:	This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonable for esceable 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 SD contains valuable information critical to the safe handling proper use of the product for industrial workplace conditi as well as unusual and unintended exposures such as la 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 Flammable liquids	: Category 3
Serious eye damage	: Category 1
GHS Label element	
Hazard pictograms	
Signal Word	: Danger
Hazard Statements	: H226 Flammable liquid and vapor.



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1.1		31854-00002 H318 Causes se Prevention: P210 Keep away No smoking. P233 Keep conta P241 Use explos equipment. P242 Use only ne P243 Take preca P280 Wear prote Response: P303 + P361 + F all contaminated P305 + P351 + F water for several and easy to do. C CENTER or doct Storage:	Date of first issue: 11/24/2014 rious eye damage. r 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. P338 + P310 IF IN EYES: Rinse cautiously with minutes. Remove contact lenses, if present Continue rinsing. Immediately call a POISON		
		P501 Dispose of contents/ container to an approved waste disposal plant.			

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 (%)
Ethanol	64-17-5	>= 10 - < 20
Dodecanoic acid	143-07-7	>= 5 - < 10
Propylene glycol	57-55-6	>= 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

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.



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		Get medical a	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 : In case of contact, immediately flush eyes with plenty for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately.		minutes. remove contact lens, if worn.			
lf swa	allowed	Get medical a	DO NOT induce vomiting. attention if symptoms occur. thoroughly with water.		
	important symptoms offects, both acute and ed	: Causes serio	us eye damage.		
Prote	ction of first-aiders	and use the re	: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.		
Notes	s 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	:	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	:	In the event of fire, wear self-contained breathing apparatus.



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for fire	e-fighters	Use personal	protective equipment.
SECTION	6. ACCIDENTAL RELE	ASE MEASURES	
prote	onal precautions, ctive equipment and gency procedures	Follow safe ha	urces of ignition. protective equipment. Indling advice and personal protective ommendations.
Envir	onmental precautions	Prevent furthe Prevent sprea barriers). Retain and dis	o the environment must be avoided. r leakage or spillage if safe to do so. ding over a wide area (e.g. by containment or oil pose of contaminated wash water. es should be advised if significant spillages tained.
	ods and materials for inment and cleaning up	Soak up with i Suppress (kno jet. For large spills containment to can be pumpe container. Clean up rema absorbent. Local or natior disposal of this employed in th determine whi Sections 13 ar	tools should be used. nert absorbent material. ock down) gases/vapors/mists with a water spray s, provide diking or other appropriate b keep material from spreading. If diked material d, 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 ch 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.



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		Take precautiona	neat and sources of ignition. ry measures against static discharges. rent spills, waste and minimize release to the
Conditi	ons for safe storage	Store in accordar	
Materials to avoid		Strong oxidizing a Organic peroxide Flammable solids Pyrophoric liquids Pyrophoric solids Self-heating subs	S S

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
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
Propylene glycol	57-55-6	TWA	10 mg/m3	US WEEL
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

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Dodecanoic acid	143-07-7
Imidazolium compounds, 1-[2-	68650-39-5
(carboxymethoxy)ethyl]-1-	
(carboxymethyl)-4,5-dihydro-2-	



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	co alkyl, hydroxides, m salts		
Engin	eering measures	Use only ir ventilation.	vorkplace exposure concentrations. a an area equipped with explosion proof exhaust a an area equipped with explosion proof exhaust
Perso	onal protective equipr	nent	
	ratory protection	: General and local exhaust ventilation is recommended maintain vapor exposures below recommended limits. A concentrations are above recommended limits or are unknown, appropriate respiratory protection should be Follow OSHA respirator regulations (29 CFR 1910.134) use NIOSH/MSHA approved respirators. Protection pro- by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure supplied respirator if there is any potential for uncontrol release, exposure levels are unknown, or any other circumstance where air purifying respirators may not pr adequate protection.	
	protection terial	: Impervious	gloves
Mat	terial	: Flame reta	rdant gloves
Rer	marks	on the con time is not For specia resistance gloves with	oves to protect hands against chemicals depending centration specific to place of work. Breakthrough determined for the product. Change gloves often! applications, we recommend clarifying the to chemicals of the aforementioned protective the glove manufacturer. Wash hands before at the end of workday.
Еуе р	rotection	Chemical r	ollowing personal protective equipment: esistant goggles must be worn. are likely to occur, wear: d
Skin a	and body protection	resistance potential. Wear the f Flame reta Skin conta	ropriate protective clothing based on chemical data and an assessment of the local exposure ollowing personal protective equipment: rdant antistatic protective clothing. ct must be avoided by using impervious protective oves, aprons, boots, etc).
Hygie	ne measures	located clo When usin	t eye flushing systems and safety showers are se to the working place. g do not eat, drink or smoke. aminated clothing before re-use.



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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, purple
Odor	: citrus
Odor Threshold	: No data available
рН	: 7.8 - 9.7
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 97.00 °C
Flash point	: 56.00 °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	: 10 - 20 mm2/s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.



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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.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition 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 availa	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:					
Ethanol:					
Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg				
Acute inhalation toxicity	: LC50 (Rat): 124.7 mg/l Exposure time: 4 h Test atmosphere: vapor				
Dodecanoic acid: Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401				

SAFETY DATA SHEET

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Acute inhalation toxicity		Exposure tim Test atmospl	 LC50 (Rat): > 0.162 mg/l Exposure time: 4 h Test atmosphere: vapor Remarks: Based on data from similar materials 				
Acute	e dermal toxicity	Assessment: toxicity	 LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials 				
	ylene glycol: oral toxicity	: LD50 (Rat): >	⊳ 5,000 mg/kg				
Acute	inhalation toxicity	Exposure tim Test atmospl	nere: dust/mist The substance or mixture has no acute				
Acute	e dermal toxicity		:): > 2,000 mg/kg The substance or mixture has no acute dermal				
	oral toxicity	: LD50 (Rat): ²	,515 mg/kg				
Acute	inhalation toxicity	Test atmospl Method: Exp	ert judgment sed on harmonised classification in EU regulatio				
Acute	e dermal toxicity	: LD50 (Rabbi	:): 1,025 mg/kg				
	zolium compounds, oco alkyl, hydroxides		[2-(carboxymethoxy)ethyl]-1-(carboxymethyl)-4,5-dihydro-2				
	oral toxicity	: LD50 (Rat, m	ale): > 5,000 mg/kg sed on data from similar materials				
Acute	dermal toxicity		> 5,000 mg/kg CD Test Guideline 402 sed on data from similar materials				

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:

Ethanol: Species: Rabbit



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Method: OECD Test Guideline 404 Result: No skin irritation

Dodecanoic acid:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Propylene glycol:

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

Ethanolamine:

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

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

Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation Remarks: Based on data from similar materials

Serious eye damage/eye irritation

Causes serious eye damage.

Ingredients:

Ethanol: Species: Rabbit 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

Propylene glycol:

Species: Rabbit Result: No eye irritation 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 eye Method: OECD Test Guideline 405 Remarks: Based on data from similar materials



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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:

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

Propylene glycol:

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

Germ cell mutagenicity

Not classified based on available information.

Ingredients:

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



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				Application Route Result: negative	: Ingestion	
		Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative Remarks: Based on data from similar materials				
F	Propyl	ene glycol:				
		xicity in vitro	:	Test Type: Bacter Result: negative	ial reverse mutation assay (AMES)	
(Genoto	xicity in vivo	:	Test Type: In vivo Species: Mouse	micronucleus test	
				Application Route: Intraperitoneal injection Result: negative		
E	Ethanc	plamine:				
(Genotoxicity in vitro :		:	Test Type: In vitro Method: OECD Te Result: negative	e mammalian cell gene mutation test est Guideline 476	
(Genoto	xicity in vivo	:	cytogenetic assay Species: Mouse		
				Application Route Method: OECD Te Result: negative		
		olium compounds, 1- :o alkyl, hydroxides, s			ethyl]-1-(carboxymethyl)-4,5-dihydro-2-	
		xicity in vitro			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	

Carcinogenicity

Not classified based on available information.

Ingredients:

Propylene glycol: Species: Rat

Application Route: Ingestion



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		ure time: 2 Years negative				
	IARC		ec	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.		
	OSHA		ec	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.		
	NTP		ec		product present at levels greater than or tified as a known or anticipated carcinogen	
	-	ductive toxicity ssified based on availa	able	information.		
	Ingred					
	Ethanc Effects	ol: on fertility	:	Test Type: Two-g Species: Mouse Application Route Method: OECD To Result: negative		
		anoic acid: on fertility	: Test Type: Combined repeated dose toxicity s reproduction/developmental toxicity screening Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials		elopmental toxicity screening test : Ingestion est Guideline 422	
	Effects	on fetal development	 Test Type: Combined repeated dose toxicity study w reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials 		elopmental toxicity screening test : Ingestion est Guideline 422	
		ene glycol: on fertility	: Species: Mouse Application Route: Ingestion Result: negative		: Ingestion	
	Effects	on fetal development	ent : Test Type: Embryo-fetal development Species: Mouse Application Route: Ingestion Result: negative			



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	olamine: on fertility	: Test Type: Two-g Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
Effects	on fetal development	Species: Rat Application Route	yo-fetal development e: Ingestion est Guideline 414

STOT-single exposure

Not classified based on available 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.

Repeated dose toxicity

Ingredients:

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

Propylene glycol:

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

Ethanolamine:

Species: Rat NOAEL: 150 mg/m3



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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: 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

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

<u>Ingredients:</u> 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
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
Toxicity to bacteria	: EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h
Dodecanoic acid:	
Toxicity to fish	 LC50 (Oryzias latipes (Japanese medaka)): 5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other	: EC50 (Daphnia magna (Water flea)): 3.6 mg/l
aquatic invertebrates	Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Selenastrum capricornutum (green algae)): > 7.6 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility.



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		Expos Metho	ure time: 72 d: OECD T	um capricornutum (green algae)): > 7.6 mg/l 2 h est Guideline 201 city at the limit of solubility.
Toxici toxicit	ity to fish (Chronic ty)	Expos	ure time: 28	o (zebra fish)): 2 mg/l 3 d on data from similar materials
aquat	ity to daphnia and other tic invertebrates nic toxicity)	Expos	ure time: 2	nagna (Water flea)): 0.47 mg/l I d est Guideline 211
Toxici	Toxicity to bacteria		ure time: 30	nas putida): > 1,000 mg/l) min est Guideline 209
	ylene glycol: ity to fish		(Oncorhync ure time: 96	hus mykiss (rainbow trout)): 40,613 mg/l ∂ h
	ity to daphnia and other tic invertebrates		(Ceriodaph ure time: 48	nia dubia (water flea)): 18,340 mg/l 3 h
Toxici	ity to algae	Expos	ure time: 48	ma costatum (marine diatom)): 19,000 mg/l 3 h est Guideline 201
Toxici toxicit	ity to fish (Chronic ty)		ic Toxicity \ ure time: 30	/alue: 2,500 mg/l) d
aquat	ity to daphnia and other tic invertebrates nic toxicity)		(Ceriodapl ure time: 7	nnia dubia (water flea)): 29,000 mg/l d
Toxici	ity to bacteria		(Pseudom ure time: 18	onas putida): > 20,000 mg/l 3 h
	nolamine: ity to fish		(Cyprinus c ure time: 96	arpio (Carp)): 349 mg/l S h
	ity to daphnia and other iic invertebrates		(Daphnia m ure time: 48	nagna (Water flea)): 65 mg/l 3 h
Toxici	ity to algae		(Selenastr ure time: 72	um capricornutum (green algae)): 2.8 mg/l 2 h
		mg/l	(Scenedes) ure time: 72	smus capricornutum (fresh water algae)): 1 2 h
Toxici toxicit	ity to fish (Chronic ty)		; (Oryzias la ure time: 4	ntipes (Orange-red killifish)): 1.24 mg/l I d



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ä	aquatic	r to daphnia and other invertebrates c toxicity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.85 mg/l d
-	Toxicity	r to bacteria	:	EC50 (Pseudomo Exposure time: 17	nas putida): 110 mg/l ′ h
I		o alkyl, hydroxides, s	sodi	ium salts: LC50 (Oncorhync Exposure time: 96 Method: OECD Te	
		to daphnia and other invertebrates	:	Exposure time: 48 Method: OECD Te	
-	Toxicity	to algae	:	mg/l Exposure time: 72 Method: Directive	chneriella subcapitata (green algae)): 3.2 ? 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 ? h 67/548/EEC, Annex V, C.3. on data from similar materials
I	Persist	ence and degradabili	ity		
	Produc Biodegi	radability	:	Result: Biodegrad	able
I	Ingredi Ethano Biodegi		:	Result: Readily bi Biodegradation: 8 Exposure time: 20	34 %
		anoic acid: [·] adability	:	Result: Readily bio Biodegradation: 8 Exposure time: 30 Method: OECD Te	36 %
		ene glycol: radability	:	Result: Readily bio Biodegradation: S	



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			Exposure time: Method: OECE	28 d) Test Guideline 301F
	n olamine: egradability	E	Result: Readily Biodegradatior Exposure time	
norco	azolium compounds oco alkyl, hydroxide egradability	s, sodiu : F E	m salts: Result: Readily Biodegradatior Exposure time Method: OECE	
Bioad	ccumulative potentia	al		
Ethar Partit	dients: nol: ion coefficient: n- ol/water	: 1	og Pow: -0.35	
	canoic acid: ccumulation	E		on factor (BCF): 234 - 288 ed on data from similar materials
	ion coefficient: n- ol/water	: F	Pow: 4.6	
Partit	ylene glycol: ion coefficient: n- ol/water	: 1	og Pow: -1.07	
Partit	n olamine: ion coefficient: n- ol/water	: 1	og Pow: -1.91	
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
No da	ata 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



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handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG		
UN number	:	UN 1987
Proper shipping name	:	ALCOHOLS, N.O.S.
		(Ethanol, Propan-2-ol)
Class	:	3
Packing group	:	111
Labels	:	3
UN/ID No.	-	UN 1987
Proper shipping name	:	Alcohols, n.o.s.
		(Ethanol, Propan-2-ol)
Class	:	3
Packing group	:	III
Labels	:	Flammable Liquids
Packing instruction (cargo	:	366
aircraft)		055
Packing instruction		355
(passenger aircraft)		
IMDG-Code		
UN number	-	UN 1987
Proper shipping name	:	ALCOHOLS, N.O.S.
Class		(Ethanol, Propan-2-ol, Triclosan) 3
Packing group		5 III
Labels	÷	
EmS Code		F-E, S-D
Marine pollutant	:	yes
•		•

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

Not applicable for product as supplied.

Domestic regulation

49 CFR UN/ID/NA number Proper shipping name	: UN 1987 : ALCOHOLS, N.O.S.
Class Packing group	: 3 : III
Labels	: FLAMMABLE LIQUID
ERG Code	: 127
Marine pollutant	: yes (Triclosan)



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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	70 - 90 %
Ethanol	64-17-5	10 - 20 %
Propylene glycol	57-55-6	5 - 10 %
Dodecanoic acid	143-07-7	5 - 10 %
Ethanolamine	141-43-5	1 - 5 %
Propan-2-ol	67-63-0	0.1 - 1 %
New Jersey Right To Know		
Water	7732-18-5	70 - 90 %
Ethanol	64-17-5	10 - 20 %
Propylene glycol	57-55-6	5 - 10 %
Dodecanoic acid	143-07-7	5 - 10 %
Ethanolamine	141-43-5	1 - 5 %

California Prop 65	This product does not contain any chemicals known to the
	State of California to cause cancer, birth, or any other
	reproductive defects.

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



MSDS Number:

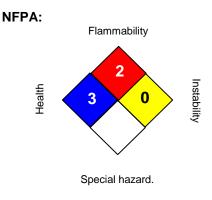
31854-00002

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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

4 = Extreme, = Chror

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	:	02/16/2015

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.



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