

Version 3.0	Revision Date: 05/05/2015		DS Number: 91-00004	Date of last issue: 04/17/2015 Date of first issue: 12/11/2014	
SECTION	1. IDENTIFICATION				
Produ	Product name		MICRELL® Antib	acterial Foam Handwash	
Manu	facturer or supplier's	detai	ls		
	pany name of supplier				
Addre	Address		One GOJO Plaza, Suite 500 Akron OH 44311		
Telep	hone	:	1 (330) 255-6000		
Emer	Emergency telephone		1-800-424-9300 CHEMTREC		
Reco	Recommended use of the		cal and restriction	ons on use	
Reco	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 foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consume While this material is not considered hazardous, this SDS 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. 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:	 A from heat/sparks/open flames/hot surfaces. ainer tightly closed. sion-proof electrical/ ventilating/ lighting/ on-sparking tools. autionary measures against static discharge. active 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 or/ 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 (%)
Ethanol	64-17-5	>= 5 - < 10
Dodecanoic acid	143-07-7	>= 5 - < 10
Ethanolamine	141-43-5	>= 1 - < 5
I-(+)-Lactic acid	79-33-4	>= 1 - < 5
4-chloro-3,5-dimethylphenol	88-04-0	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medic advice.	cal
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	In case of contact, immediately flush eyes with plenty of wa for at least 15 minutes.	Iter



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		•	move contact lens, if worn. ention immediately.	
If swallowed		: 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 serious	eye damage.	
Protection of first-aiders		and use the rec	nders should pay attention to self-protection, commended personal protective equipment tial for exposure exists.	
Notes	s to physician	: Treat symptoma	atically and supportively.	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	Vater spray Alcohol-resist Carbon dioxic Dry chemical	de (CO2)
Unsuitable extinguishing media	ligh volume	water jet
Specific hazards during fire fighting	ire. Flash back po /apors may f	solid water stream as it may scatter and spread ossible over considerable distance. orm explosive mixtures with air. combustion products may be a hazard to health.
Hazardous combustion prod- ucts	Carbon oxide Nitrogen oxid	-
Specific extinguishing methods	ircumstance Jse water sp	hing measures that are appropriate to local s and the surrounding environment. ray to cool unopened containers. amaged containers from fire area if it is safe to do a.
Special protective equipment for fire-fighters		of fire, wear self-contained breathing apparatus. protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions,	: Remove all sources of ignition.
protective equipment and	Use personal protective equipment.
emergency procedures	Follow safe handling advice and personal protective equipment recommendations.



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Environmental precautions		 Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. 		
Methods and materials for containment and cleaning up		Soak up with ine Suppress (knock jet. For large spills, p containment to k can be pumped, container. Clean up remain absorbent. Local or national disposal of this m employed in the determine which Sections 13 and	All should be used. At absorbent material. down) gases/vapors/mists with a water spray provide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ing materials from spill with suitable regulations may apply to releases and naterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding ational 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. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition. 	
Materials to avoid	: Do not store with the following product types:	



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		5	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
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
I-(+)-Lactic acid	79-33-4
4-chloro-3,5-dimethylphenol	88-04-0

Engineering measures

: Minimize workplace exposure concentrations.

Use only in an area equipped with explosion proof exhaust ventilation.

Use with local exhaust ventilation.

Dust formation may be relevant in the processing of this product. In addition to substance-specific OELs, general limitations of concentrations of particulates in the air at workplaces have to be considered in workplace risk assessment. Relevant limits include: OSHA PEL for Particulates Not Otherwise Regulated of 15 mg/m3 - total dust, 5 mg/m3 - respirable fraction; and ACGIH TWA for Particles (insoluble or poorly soluble) Not Otherwise Specified of 3 mg/m3 - respirable particles, 10 mg/m3 inhalable particles.



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Р	Personal	I protective equipm	ent				
		bry protection	: General and local exhaust ventilation is recommended maintain vapor exposures below recommended limits. 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 uncontro release, exposure levels are unknown, or any other circumstance where air purifying respirators may not p adequate protection.				
F	land pro Materia			Impervious gloves			
	Materia		:	Flame retardant g			
	Remar	ks	:	on the concentrati time is not determ For special application resistance to cher	protect hands against chemicals depending on specific to place of work. Breakthrough ined for the product. Change gloves often! ations, we recommend clarifying the nicals of the aforementioned protective ove manufacturer. Wash hands before end of workday.		
E	Eye prote	ection	:	Chemical resistan	g personal protective equipment: t goggles must be worn. ely to occur, wear:		
S	Skin and	body protection	:	resistance data ar potential. Wear the following Flame retardant a Skin contact must	e protective clothing based on chemical and an assessment of the local exposure g personal protective equipment: ntistatic protective clothing. be avoided by using impervious protective aprons, boots, etc).		
H	lygiene i	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, Slightly hazy, blue green
Odor	: fruity



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	рН		:	7.8 - 9.7	
	Melting	point/freezing point	:	No data available	9
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	point	:	45.6 °C	
	Evapor	ation rate	:	No data available	9
	Flamm	ability (solid, gas)	:	Not applicable	
	Upper	explosion limit	:	No data available	9
	Lower	explosion limit	:	No data available	
	Vapor p	oressure	:	No data available	
	Relativ	e vapor density	:	No data available	
	Density	/	:	1 g/cm3	
	Solubili Wate	ity(ies) er solubility	:	soluble	
	Partitio octanol	n coefficient: n- l/water	:	Not applicable	
	Autoigr	nition temperature	:	No data available)
	Decom	position temperature	:	The substance of	mixture is not classified self-reactive.
	Viscosi Visc	ty osity, kinematic	:	10 - 20 mm2/s (2	0 °C)
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance of	r mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

:	Not classified as a reactivity hazard.
:	Stable under normal conditions.
:	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
:	Heat, flames and sparks.
	:



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Incor	npatible materials	:	Oxidizing agent	S
Haza produ	rdous decomposition	:	No hazardous o	lecomposition products are known.
SECTION	11. TOXICOLOGICAL	INFO	RMATION	
Inhal Skin Inges	contact	s of e	xposure	
Acut	e toxicity			
	lassified based on avail	able ii	nformation.	
Prod Acute	<u>uct:</u> e oral toxicity		Acute toxicity es Method: Calcula	timate: > 5,000 mg/kg tion method
Acute	e inhalation toxicity		Acute toxicity es Exposure time: 4 Test atmosphere Method: Calcula	e: vapor
Acute	e dermal toxicity		Acute toxicity es Method: Calcula	timate: > 5,000 mg/kg tion method
Ingre	edients:			
Etha Acute	nol: e oral toxicity	:	LD50 (Rat): > 5,	000 mg/kg
Acute	e inhalation toxicity		LC50 (Rat): 124 Exposure time: 4 Test atmosphere	lh
	ecanoic acid: e oral toxicity		LD50 (Rat): > 5, Method: OECD	000 mg/kg Fest Guideline 401
Acute	e inhalation toxicity		LC50 (Rat): > 0. Exposure time: 4 Test atmosphere Remarks: Basec	l h
Acute	e dermal toxicity		toxicity	2,000 mg/kg e substance or mixture has no acute dermal on data from similar materials
	nolamine: e oral toxicity	:	LD50 (Rat): 1,51	5 mg/kg
Acute	e inhalation toxicity	:	Acute toxicity es	timate: 11 mg/l



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		Test atmosph Method: Expe Remarks: Bas 1272/2008, A	ert judgment sed on harmonised classification in EU regulation
Acute	e dermal toxicity	: LD50 (Rabbit): 1,025 mg/kg
	_actic acid: oral toxicity	: LD50 (Rat, fe	male): 3,543 mg/kg
Acute	inhalation toxicity		
Acute	e dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg
	oro-3,5-dimethylpher	: Acute toxicity Method: Expe	sed on harmonised classification in EU regulation
Acute	inhalation toxicity	: LC50 (Rat): > Test atmosph	e.29 mg/l here: dust/mist
Acute	e dermal toxicity	: LD50 (Rat): >	2,000 mg/kg
Not cl <u>Produ</u>	corrosion/irritation lassified based on ava u <u>ct:</u> lt: No skin irritation	ilable information.	
Ethar Speci Metho	dients: hol: es: Rabbit pd: OECD Test Guidel lt: No skin irritation	ine 404	
Speci Metho	canoic acid: es: Rabbit od: OECD Test Guidel lt: No skin irritation	ine 404	
Speci	nolamine: es: Rabbit lt: Corrosive after 3 mi	nutes to 1 hour of ex	posure
Speci	_actic acid: es: Rabbit lt: Skin irritation		

4-chloro-3,5-dimethylphenol:



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Result: Skin irritation

Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

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

Ethanolamine:

Species: Rabbit Result: Irreversible effects on the eye

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

4-chloro-3,5-dimethylphenol:

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:

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



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Test T Routes Specie	actic acid: ype: Buehler Test s of exposure: Skin cont es: Guinea pig :: negative	act	
Asses	oro-3,5-dimethylphenol sment: Probability or evi rks: Based on harmonise	dence of skin sensit	ization in humans U regulation 1272/2008, Annex VI
	cell mutagenicity assified based on availa	ble information.	
Ingrea	lients:		
Ethan Genote	ol: oxicity in vitro	: Test Type: In vit Result: negative	ro mammalian cell gene mutation test
Genot	oxicity in vivo	: Test Type: Rode Species: Mouse Application Rou Result: negative	te: Ingestion
	canoic acid: oxicity in vitro	Method: OECD Result: negative	ro mammalian cell gene mutation test Test Guideline 476 d on data from similar materials
	olamine: oxicity in vitro		rro mammalian cell gene mutation test Test Guideline 476 e
Genot	oxicity in vivo	cytogenetic ass Species: Mouse Application Rou	te: Ingestion Test Guideline 474
	actic acid: oxicity in vitro	Metabolic activa Result: negative	omosome aberration test in vitro tion: with and without metabolic activation d on data from similar materials
			erial reverse mutation assay (AMES) tion: with and without metabolic activation
	oro-3,5-dimethylphenol oxicity in vitro		erial reverse mutation assay (AMES)



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	n ogenicity assified based on availa	ble	information.				
I-(+)-L Specie Applica Expos Result	lients: actic acid: es: Rat ation Route: Ingestion ure time: 2 Years :: negative rks: Based on data from	n sin	nilar materials				
IARC		No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.					
OSHA	A	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		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.					
Ingred Ethan Effects	assified based on availa <u>dients:</u> ol: s on fertility canoic acid:		Test Type: Two- Species: Mouse Application Rout	generation reproduction toxicity study e: Ingestion Fest Guideline 416			
	s on fertility	:	reproduction/dev Species: Rat Application Rout Method: OECD Result: negative	bined repeated dose toxicity study with the velopmental toxicity screening test e: Ingestion Fest Guideline 422			
Effects	s on fetal development	:	reproduction/dev Species: Rat Application Rout Method: OECD	bined repeated dose toxicity study with the velopmental toxicity screening test e: Ingestion Fest Guideline 422			
	olamine: s on fertility	:	Test Type: Two-	generation reproduction toxicity study			



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				Species: Rat Application Route Result: negative	e: Ingestion
	Effects	on fetal development	:	Species: Rat Application Route	yo-fetal development e: Ingestion rest Guideline 414
		single exposure ssified based on availa	able	information.	
		ients: plamine: sment: May cause resp	oirat	ory irritation.	
		actic acid: sment: May cause resp	oirat	ory irritation.	
		repeated exposure Issified based on availa	able	information.	
	Routes	blamine: s of exposure: inhalatio sment: No significant he			in animals at concentrations of 0.2 mg/l/6h/d
	Repea	ted dose toxicity			
	Applica	ol:			
	Specie NOAE Applica	anoic acid: s: Rat L: 10,000 mg/kg ation Route: Ingestion ure time: 18 w			
	Specie NOAE Applica	blamine: s: Rat L: 150 mg/m3 ation Route: inhalation ure time: 28 d	(du:	st/mist/fume)	
	Specie	actic acid: s: Rat L: >= 886 mg/kg			



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Application Route: Skin contact Exposure time: 13 w

4-chloro-3,5-dimethylphenol:

Species: Rabbit LOAEL: 180 mg/kg Application Route: Skin contact Exposure time: 90 d

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

ingrouionto.		
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 aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3.6 mg/l 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.
		NOEC (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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	Toxicity to fish (Chronic toxicity) Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) Toxicity to bacteria		:	Exposure time: 28	o (zebra fish)): 2 mg/l 3 d on data from similar materials
			:	NOEC (Daphnia r Exposure time: 21 Method: OECD Te	
			:	EC10 (Pseudomo Exposure time: 30 Method: OECD Te	
	Ethanc Toxicity	lamine: / to fish	:	LC50 (Cyprinus ca Exposure time: 96	arpio (Carp)): 349 mg/l S h
		v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 65 mg/l 3 h
	Toxicity	v to algae	:	ErC50 (Selenastro Exposure time: 72	um capricornutum (green algae)): 2.8 mg/l ? h
				NOEC (Scenedes mg/l Exposure time: 72	mus capricornutum (fresh water algae)): 1 ? h
	Toxicity toxicity)	v to fish (Chronic	:	NOEC (Oryzias la Exposure time: 41	tipes (Orange-red killifish)): 1.24 mg/l d
	aquatic	v to daphnia and other invertebrates c toxicity)	:	NOEC (Daphnia r Exposure time: 21	nagna (Water flea)): 0.85 mg/l d
	Toxicity	to bacteria	:	EC50 (Pseudomo Exposure time: 17	nas putida): 110 mg/l ′ h
	l-(+)-La Toxicity	ictic acid: / to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): 130 mg/l 3 h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity	v to algae	:	NOEC (Selenastru g/l Exposure time: 72 Method: OECD Te	
				EC50 (Selenastru Exposure time: 72 Method: OECD Te	
	Toxicity	v to bacteria	:	EC50: > 100 mg/l Exposure time: 3	h



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			Method: OECD	Test Guideline 209
	oro-3,5-dimethylphenc ity to fish		LC50 (Oncorhy Exposure time:	nchus mykiss (rainbow trout)): 0.76 mg/l 96 h
Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia Exposure time:	magna (Water flea)): 7.7 mg/l 48 h
M-Fa icity)	ctor (Acute aquatic tox-	:	1	
Persi	stence and degradabil	lity		
-	dients:			
Ethar Biode	nol: egradability	:	Result: Readily Biodegradation Exposure time:	: 84 %
	canoic acid: gradability	:	Result: Readily Biodegradation Exposure time: Method: OECD	86 %
	n olamine: gradability	:	Result: Readily Biodegradation Exposure time:	: > 90 %
	Lactic acid: gradability	:	Result: Not read Biodegradation Exposure time:	
Bioad	cumulative potential			
Ethar Partit	<u>dients:</u> 101: ion coefficient: n- ol/water	:	log Pow: -0.35	
	canoic acid: cumulation	:		n factor (BCF): 234 - 288 d on data from similar materials
	ion coefficient: n- ol/water	:	Pow: 4.6	
Partit	nolamine: ion coefficient: n- ol/water	:	log Pow: -1.91	



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Partit	L actic acid: ion coefficient: n- ol/water	: log Pow: -0.6		
Partit	oro-3,5-dimethylphe ion coefficient: n- ol/water	nol: : log Pow: 3.27		
	lity in soil ata available			
	r adverse effects ata available			

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

SECTION 14. TRANSPORT INFORMATION

International R	Regulation
-----------------	------------

UNRTDG	
UN number	: UN 1993
Proper shipping name	: FLAMMABLE LIQUID, N.O.S.
	(Ethanol)
Class	: 3
Packing group	: 111
Labels	: 3
IATA-DGR	
UN/ID No.	: UN 1993
Proper shipping name	: Flammable liquid, n.o.s.
	(Ethanol)
Class	: 3
Packing group	: 111
Labels	: Flammable Liquids
Packing instruction (cargo	: 366
aircraft) Packing instruction	: 355
(passenger aircraft)	. 335
IMDG-Code	
UN number	: UN 1993



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Class Packi Label EmS Marin	ng group s Code e pollutant	 FLAMMABLE LIQUII (Ethanol) 3 III 3 F-E, <u>S-E</u> no 	
	sport in bulk accordir pplicable for product a		73/78 and the IBC Code
Dom 49 CF UN/IE	estic regulation	 NA 1993 COMBUSTIBLE LIQI (Ethanol) 	UID, N.O.S.
Class		: CBL	
Label ERG	Code e pollutant		o containers over 119 gallons or 450 f shipped in packages less than or equal iters).

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	e Hazard ute Health Haza	ard
SARA 302		is material are subject to the reporting ARA Title III, Section 302.
SARA 313	own CAS numb	not contain any chemical components with ers that exceed the threshold (De Minimis) tablished by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know					
Water	7732-18-5	70 - 90 %			
Ethanol	64-17-5	5 - 10 %			
Dodecanoic acid	143-07-7	5 - 10 %			

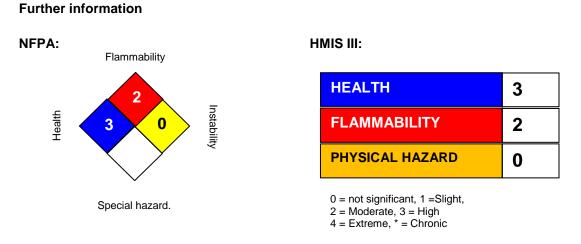


ersion	Revision Date: 05/05/2015	MSDS Number: 36491-00004	Date of last issue: 04/17/2 Date of first issue: 12/11/2	
	Ethanolam Dipropyler Propan-2-	ne glycol	141-43-5 25265-71-8 67-63-0	1 - 5 % 1 - 5 % 0.1 - 1 %
New	Jersey Right To Kno	w		
	Water Ethanol Dodecano Ethanolam Dipropyler	ic acid nine	7732-18-5 64-17-5 143-07-7 141-43-5 25265-71-8	70 - 90 % 5 - 10 % 5 - 10 % 1 - 5 % 1 - 5 %
Califo	ornia Prop 65	•	bes not contain any chemicals nia to cause cancer, birth, or a afects.	
The i	naredients of this pr	oduct are reported in	the following inventories:	
AICS	• ·	: All ingredients I	-	

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 NIOSH REL OSHA Z-1	 USA. ACGIH Threshold Limit Values (TLV) USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA ACGIH / STEL NIOSH REL / TWA	 8-hour, time-weighted average Short-term exposure limit Time-weighted average concentration for up to a 10-hour



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3.0	05/05/2015	36491-0		Date of first issue: 12/11/2014	
NIOSH REL / ST		 workday during a 40-hour workweek STEL - 15-minute TWA exposure that should not be exceeded			
OSHA Z-1 / TWA		at any time during a workday 8-hour time weighted average			
Sources of key data used to		: Internal technical data, data from raw material SDSs, OECD			
compile the Material Safety		eChem Portal search results and European Chemicals Agen-			
Data Sheet		cy, http://echa.europa.eu/			
Revisi	on Date	: 05/0	5/2015		

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