# **PURELL® Hand Sanitizer**



Version 1.2	Revision Date: 03/19/2015		SDS Number: 955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015	
SECTION	1. IDENTIFICATION				
Produ	ct name	:	PURELL® Hand	Sanitizer	
Manut	facturer or supplier's	deta	ails		
Comp	any name of supplier	:	GOJO Industries, Inc.		
Addre	SS	:	One GOJO Plaza Akron OH 44311	, Suite 500	
Telepł	none	:	1 (330) 255-6000		
Emerg	ency telephone	:	1-800-424-9300	CHEMTREC	
Recommended use of the c		hen	nical and restriction	ons on use	
Recon	nmended use	:	Hand Sanitizer		
Restrie	ctions on use	:	consumers and or foreseeable use. specifically define exempt from the r While this materia contains valuable proper use of the as well as unusua spills. This SDS s employees and or intended-use guid	care or cosmetic product that is safe for ther users under normal and reasonably Cosmetics and consumer products, d by regulations around the world, are requirement of an SDS for the consumer. al is not considered hazardous, this SDS information critical to the safe handling and product for industrial workplace conditions al and unintended exposures such as large hould be retained and available for ther users of this product. For specific dance, please refer to the information ackage or instruction sheet.	

## **SECTION 2. HAZARDS IDENTIFICATION**

GHS Classification Flammable liquids	: Category 3
Eye irritation	: Category 2A
GHS Label element Hazard pictograms	
Signal Word	: Warning
Hazard Statements	: H226 Flammable liquid and vapor. H319 Causes serious eye irritation.



Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015
Preca	autionary Statements	No smoking. P233 Keep cont P241 Use explo equipment. P242 Use only r P243 Take prec P264 Wash skir P280 Wear prot <b>Response:</b> P303 + P361 + all contaminated P305 + P351 + for several minut to do. Continue P337 + P313 If attention. <b>Storage:</b> P403 + P235 St <b>Disposal:</b>	y from heat/sparks/open flames/hot surfaces. aainer tightly closed. sion-proof electrical/ ventilating/ lighting/ hon-sparking tools. autionary measures against static discharge. h thoroughly after handling. ective gloves/ eye protection/ face protection. P353 IF ON SKIN (or hair): Take off immediately d clothing. Rinse skin with water/shower. P338 IF IN EYES: Rinse cautiously with water tes. Remove contact lenses, if present and easy rinsing. eye irritation persists: Get medical advice/ ore in a well-ventilated place. Keep cool. f 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	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

### **SECTION 4. FIRST AID MEASURES**

General advice	<ul> <li>In the case of accident or if you feel unwell, seek medical advice immediately.</li> <li>When symptoms persist or in all cases of doubt seek medica advice.</li> </ul>	ıl
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	<ul> <li>In case of contact, immediately flush eyes with plenty of wate for at least 15 minutes.</li> <li>If easy to do, remove contact lens, if worn.</li> </ul>	ər



Version 1.2	Revision Date: 03/19/2015	MSDS Number: 46955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015
If sw	allowed	Get medical a	ttention. DO NOT induce vomiting. ttention if symptoms occur. horoughly with water.
	important symptoms effects, both acute and /ed	: Causes seriou	s eye irritation.
Prote	ection of first-aiders	and use the re	onders should pay attention to self-protection, commended personal protective equipment ntial for exposure exists.
Note	s to physician	: Treat sympton	natically 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 s fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to h	
Hazardous combustion prod- ucts	Carbon 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 sat so. Evacuate area.	
Special protective equipment for fire-fighters	In the event of fire, wear self-contained breathing apparent of the personal protective equipment.	ratus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	<ul> <li>Remove all sources of ignition.</li> <li>Use personal protective equipment.</li> <li>Follow safe handling advice and personal protective equipment recommendations.</li> </ul>
Environmental precautions	: Discharge into the environment must be avoided.



Version 1.2	Revision Date: 03/19/2015	MSDS Number: 46955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015
		Prevent spreadi barriers). Retain and disp Local authorities cannot be conta	
	thods and materials for itainment and cleaning up	Soak up with ine Suppress (knock jet. For large spills, containment to k can be pumped, container. Clean up remain absorbent. Local or nationa disposal of this n employed in the determine which Sections 13 and	ols should be used. ert absorbent material. k down) gases/vapors/mists with a water spray provide diking or other appropriate keep material from spreading. If diked material , store recovered material in appropriate hing materials from spill with suitable al regulations may apply to releases and material, as well as those materials and items cleanup of releases. You will need to h regulations are applicable. d 15 of this SDS provide information regarding hational requirements.

## SECTION 7. HANDLING AND STORAGE

Technical measures	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.	
Local/Total ventilation	Jse with local exhaust ventilation. Jse only in an area equipped with explosion proof /entilation.	fexhaust
Advice on safe handling	Do not breathe vapors or spray mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static disch Take care to prevent spills, waste and minimize re	arges.
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 re Keep away from heat and sources of ignition.	gulations.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents	



Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/19/2015	46955-00003	Date of first issue: 01/13/2015
			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
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m3	NIOSH REL
		ST	500 ppm 1,225 mg/m3	NIOSH REL
		TWA	400 ppm 980 mg/m3	OSHA Z-1

### Ingredients with workplace control parameters

### **Biological occupational exposure limits**

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentratio n	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Engineering measures

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

### Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and



Version 1.2	Revision Date: 03/19/2015		SDS Number: 955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015
			by air purifying re- hazardous chemic supplied respirato release, exposure	A approved respirators. Protection provided spirators against exposure to any cal is limited. Use a positive pressure air or if there is any potential for uncontrolled e levels are unknown, or any other ere air purifying respirators may not provide on.
	d protection aterial	:	Impervious gloves	5
Ma	aterial	:	Flame retardant g	loves
Re	emarks	:	on the concentrat time is not determ For special applic resistance to cher	protect hands against chemicals depending ion specific to place of work. Breakthrough nined for the product. Change gloves often! ations, we recommend clarifying the nicals of the aforementioned protective ove manufacturer. Wash hands before end of workday.
Eye	protection	:	Wear the following Safety goggles	g personal protective equipment:
Skin	and body protection	:	resistance data an potential. Wear the following Flame retardant a Skin contact must	e protective clothing based on chemical nd an assessment of the local exposure g personal protective equipment: intistatic protective clothing. t be avoided by using impervious protective aprons, boots, etc).
Hygi	ene measures	:	located close to the When using do not	ushing systems and safety showers are ne working place. ot eat, drink or smoke. ed clothing before re-use.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: clear, Colorless to pale yellow
Odor	: citrus
Odor Threshold	: No data available
рН	: 6.0 - 9.2
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available



Vers 1.2	sion	Revision Date: 03/19/2015		DS Number: 55-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015
	Flash p	oint	:	25 °C	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Upper e	explosion limit	:	No data available	
	Lower e	explosion limit	:	No data available	
	Vapor p	pressure	:	No data available	
	Relative	e vapor density	:	No data available	
	Density	,	:	0.89 g/cm3	
	Solubili Wate	ty(ies) er solubility	:	soluble	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Autoign	ition temperature	:	No data available	
	Decom	position temperature	:	The substance or	mixture is not classified self-reactive.
	Viscosi Visco	ty osity, kinematic	:	1,000 - 35,000 m	m2/s (20 °C)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance or	mixture is not classified as oxidizing.

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reac- tions	<ul> <li>Flammable liquid and vapor.</li> <li>Vapors may form explosive mixture with air.</li> <li>Can react with strong oxidizing agents.</li> </ul>
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.





/ersion I.2	Revision Date: 03/19/2015	MSDS Number: 46955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015
SECTION	11. TOXICOLOGICA		
<b>Inforn</b> Inhala Skin o Ingest	<b>nation on likely rout</b> tion contact		
Acute	e toxicity		
Not cl	assified based on ava	ilable information.	
Produ Acute	<u>ıct:</u> oral toxicity		estimate: > 5,000 mg/kg ulation method
Ingree	dients:		
<b>Ethan</b> Acute	oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 1 Exposure tim Test atmosph	e: 4 h
	an-2-ol: oral toxicity	: LD50 (Rat): >	5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 7 Exposure time Test atmosph	e: 4 h
Acute	dermal toxicity	: LD50 (Rat): >	5,000 mg/kg
	corrosion/irritation assified based on ava	ilable information.	

Product: Result: No skin irritation

## Ingredients:

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

#### Propan-2-ol:

Species: Rabbit Result: No skin irritation

## Serious eye damage/eye irritation

Causes serious eye irritation.

#### Ingredients:



Version	Revision Date:	MSDS Number:
1.2	03/19/2015	46955-00003

Date of last issue: 02/10/2015 Date of first issue: 01/13/2015

#### Ethanol:

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

### Propan-2-ol:

Species: Rabbit Result: Irritation to eyes, reversing within 21 days

#### 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

#### Propan-2-ol:

Test Type: Buehler Test Routes of exposure: Skin contact Species: Guinea pig Method: OECD Test Guideline 406 Result: negative

### 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 Application Route: Ingestion Result: negative
Propan-2-ol:		
Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
Genotoxicity in vivo	:	Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay) Species: Mouse Application Route: Intraperitoneal injection Result: negative





ersion 2	Revision Date: 03/19/2015		SDS Number: 955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015
	nogenicity assified based on availa	ble	information.	
Specie Applica Expos Metho	<b>lients:</b> <b>n-2-ol:</b> es: Rat ation Route: inhalation ( ure time: 104 weeks d: OECD Test Guideline : negative			
IARC		e		s product present at levels greater than or entified as probable, possible or confirmed by IARC.
OSHA	A Contraction of the second seco	e		s product present at levels greater than or entified as a carcinogen or potential carcino-
NTP		e		s product present at levels greater than or entified as a known or anticipated carcinogen
•	ductive toxicity assified based on availa	ble	information.	
Ingrea	lients:			
Ethan Effects	<b>ol:</b> s on fertility	:	Species: Mouse Application Rout	generation reproduction toxicity study e: Ingestion Test Guideline 416
	<b>n-2-ol:</b> s on fertility	:	Test Type: Two- Species: Rat Application Rout Result: negative	
Effects	s on fetal development	:	Test Type: Emb Species: Rat Application Rout Result: negative	
	-single exposure assified based on availa	ble	information.	
	lients:			

# Propan-2-ol:

Assessment: May cause drowsiness or dizziness.



Version	Revision Date:	MSDS Number:
1.2	03/19/2015	46955-00003

Date of last issue: 02/10/2015 Date of first issue: 01/13/2015

### STOT-repeated exposure

Not classified based on available information.

## Repeated dose toxicity

## Ingredients:

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

#### Propan-2-ol:

Species: Rat NOAEL: 5000 ppm Application Route: inhalation (vapor) Exposure time: 104 w Method: OECD Test Guideline 413

#### Aspiration toxicity

Not classified based on available information.

## **SECTION 12. ECOLOGICAL INFORMATION**

#### Ecotoxicity

Ingredients: 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
<b>Propan-2-ol:</b> Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to algae	:	ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l



rsion	Revision Date: 03/19/2015	MSDS Number: 46955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015
		Exposure tim	e: 8 d
Toxic	ity to bacteria	: EC50 (Pseud Exposure tim	omonas putida): > 1,050 mg/l e: 16 h
Persi	stence and degrada	bility	
	dients:		
Ethar Biode	ool: gradability	: Result: Readi Biodegradatio Exposure tim	
	an-2-ol: gradability	: Result: rapidl	y degradable
Bioad	cumulative potentia	I	
	dients:		
	<b>nol:</b> ion coefficient: n- ol/water	: log Pow: -0.3	5
Propa	an-2-ol:		
	ion coefficient: n- ol/water	: log Pow: 0.05	5
Mobi	lity in soil		
	ata available		
Othe	r adverse effects		
No da	ata available		

<b>Disposal methods</b> 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 number	:	UN 1987
Proper shipping name	:	ALCOHOLS, N.O.S.



(Ethanol, Propan-2-ol)         Class       :         Packing group       :         Labels       :         III         Labels       :         IATA-DGR         UN/ID No.       :         Proper shipping name       :         Alcohols, n.o.s.         (Ethanol, Propan-2-ol)         Class       :         Packing group       :         III         Labels       :         Packing group       :         III         Labels       :         Packing instruction (cargo       :         aircraft)       :         Packing instruction       :         Packing instruction       :         IMDG-Code       :         UN number       :         Proper shipping name       :         ALCOHOLS, N.O.S.         (Ethanol, Propan-2-ol)         Class       :         Proper shipping name       :         UN number       :         UN number       :         US       :         Packing group       :         III       :         Labels	03/19/2015 46	SDS Number: 3955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015
Class : 3 Packing group : III Labels : 3 IATA-DGR 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) Packing instruction : 355 (passenger aircraft) Packing instruction : 355 (passenger aircraft) IMDG-Code UN number : UN 1987 Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol) Class : 3 Packing group : III Labels : 3 Packing group : III		(Ethanol, Propan-	2-ol)
Packing group:IIILabels:3IATA-DGRUN/1D No.:UN/ID No.:UN 1987Proper shipping name:Alcohols, n.o.s. (Ethanol, Propan-2-ol)Class::Packing group:IIILabels:Flammable LiquidsPacking instruction (cargo aircraft)::Packing instruction (cargo (passenger aircraft)::Packing instruction (passenger aircraft)::IMDG-Code UN number::UN number::Proper shipping name::Class::Packing group:IIILabels::Proper shipping name::Class::Packing group:IIILabels::Packing group::EmS Code::Free, S-D:	Class :	· · ·	,
Labels: 3IATA-DGRUN/ID No.: UN 1987Proper shipping name: Alcohols, n.o.s. (Ethanol, Propan-2-ol)Class: 3Packing group: IIILabels: Flammable LiquidsPacking instruction (cargo aircraft): 366 aircraft)Packing instruction: 355 (passenger aircraft)IMDG-CodeUN number: UN 1987 (Ethanol, Propan-2-ol)Class: 3Packing group: III LabelsLass: 3Proper shipping name: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)Class: 3Packing group: III LabelsLabels: 3Packing moup: III LabelsLabels: 3EmS Code: F-E, S-D	Packing group :		
UN/ID No.:UN 1987Proper shipping name:Alcohols, n.o.s. (Ethanol, Propan-2-ol)Class::Packing group:IIILabels:Flammable LiquidsPacking instruction (cargo aircraft)::Packing instruction (passenger aircraft)::IMDG-CodeUN 1987UN number:UN 1987Proper shipping name::Class::Packing group:IIILabels::Series::Imper shipping name::Class::Packing group::III::Labels::EmS Code::Free::<		3	
Proper shipping name: Alcohols, n.o.s. (Ethanol, Propan-2-ol)Class: 3Packing group: IIILabels: Flammable LiquidsPacking instruction (cargo: 366aircraft): 355Packing instruction: 355(passenger aircraft): UN 1987Proper shipping name: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)Class: 3Packing group: IIILabels: 3EmS Code: 5	IATA-DGR		
Class:3Packing group:IIILabels:Flammable LiquidsPacking instruction (cargo:366aircraft):355Packing instruction:355(passenger aircraft):IMDG-CodeUN number:UN 1987Proper shipping name:ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)Class::Packing group:IIILabels::EmS Code::F-E, S-D:	UN/ID No. :	UN 1987	
Class:3Packing group:IIILabels:Flammable LiquidsPacking instruction (cargo:366aircraft):355Packing instruction:355(passenger aircraft):IMDG-CodeUN number:UN 1987Proper shipping name:ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)Class::Packing group:IIILabels::EmS Code:F-E, S-D	Proper shipping name :	Alcohols, n.o.s.	
Packing group:IIILabels:Flammable LiquidsPacking instruction (cargo aircraft):366Packing instruction (passenger aircraft):355IMDG-Code::UN number Proper shipping name:UN 1987Proper shipping name::Class Packing group::Labels EmS Code::Scode::Import Code::Import Ems Code::UN number::Import Ems Code::Import Ems Code::Import Ems Code:: </td <td></td> <td>(Ethanol, Propan-2</td> <td>2-ol)</td>		(Ethanol, Propan-2	2-ol)
Labels:Flammable LiquidsPacking instruction (cargo aircraft):366Packing instruction (passenger aircraft):355IMDG-Code:UN 1987UN number Proper shipping name:ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)Class Packing group Labels::3 EmS Code::	Class :	3	
Packing instruction (cargo aircraft): 366Packing instruction (passenger aircraft): 355IMDG-Code UN number: UN 1987Proper shipping name: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)Class Packing group: 3Packing group: III LabelsLabels: 3EmS Code: F-E, S-D	Packing group :	III	
aircraft) Packing instruction : 355 (passenger aircraft) IMDG-Code UN number : UN 1987 Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol) Class : 3 Packing group : III Labels : 3 EmS Code : F-E, S-D	Labels :	Flammable Liquid	S
(passenger aircraft) IMDG-Code UN number : UN 1987 Proper shipping name : ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol) Class : 3 Packing group : III Labels : 3 EmS Code : F-E, S-D		366	
UN number: UN 1987Proper shipping name: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)Class: 3Packing group: IIILabels: 3EmS Code: F-E, S-D	5	355	
Proper shipping name: ALCOHOLS, N.O.S. (Ethanol, Propan-2-ol)Class: 3Packing group: IIILabels: 3EmS Code: F-E, S-D	IMDG-Code		
Class:3Packing group:IIILabels:3EmS Code:F-E, S-D	UN number :	UN 1987	
Class: 3Packing group: IIILabels: 3EmS Code: F-E, S-D	Proper shipping name :		
Packing group: IIILabels: 3EmS Code: F-E, S-D		· · ·	2-ol)
Labels : 3 EmS Code : F-E, S-D		-	
EmS Code : F-E, S-D			
		-	
	Marine pollutant	no	
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	•	-	

## **Domestic regulation**

<b>49 CFR</b> UN/ID/NA number Proper shipping name	: UN 1987 : ALCOHOLS, N.O.S.
Class	: 3
Packing group	: III
Labels	: FLAMMABLE LIQUID
ERG Code	: 127
Marine pollutant	: no

## **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



/ersion .2	Revision Date: 03/19/2015		SDS Number: 955-00003	Date of last issue: 02/10/2 Date of first issue: 01/13/2	
			Acute Health Ha	azard	
SAR/	A 302	:		this material are subject to t SARA Title III, Section 302.	he reporting
SAR	A 313	: The following components are subject to reporting level established by SARA Title III, Section 313:			orting levels
			Propan-2-ol	67-63-0	3.013 %
US St	tate Regulations				
Penn	sylvania Right To Kr	now			
	Ethanol			64-17-5	50 - 70 %
	Water			7732-18-5	30 - 50 %
	Propan-2-0	ol		67-63-0	1 - 5 %
New .	Jersey Right To Kno	w			
	Ethanol			64-17-5	50 - 70 %
	Water			7732-18-5	30 - 50 %
	Propan-2-0	ol		67-63-0	1 - 5 %
Califo	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 i	ngredients of this pr	oduct	are reported in	the following inventories:	

AICS

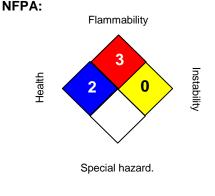
: All ingredients listed or exempt.

### Inventories

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



Version 1.2	Revision Date: 03/19/2015	MSDS Number: 46955-00003	Date of last issue: 02/10/2015 Date of first issue: 01/13/2015			
SECTION 16. OTHER INFORMATION						
Furth	er information					
	۱.					



HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 =Slight,

2 = Moderate, 3 = High

4 = Extreme, \* = Chronic

#### Full text of other abbreviations

	-	
ACGIH ACGIH BEI		USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI)
NIOSH REL		USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
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
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 Agency, http://echa.europa.eu/
Revision Date	:	03/19/2015

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.

US / Z8