

Version 1.1	Revision Date: 02/10/2015		DS Number: 62-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014		
SECTION	1. IDENTIFICATION					
Product name		:	PURELL® Advan	ced Instant Hand Sanitizer		
Manu	facturer or supplier's	detai	ls			
			GOJO Industries,	Inc.		
Addre	ess		One GOJO Plaza, Suite 500 Akron OH 44311			
Telep	hone	:	1 (330) 255-6000			
Emerg	gency telephone	:	1-800-424-9300 CHEMTREC			
Reco	mmended use of the o	chemi	ical and restriction	ons on use		
Recor	mmended use	:	Hand Sanitizer			
Restrictions on use			This is a personal care or cosmetic product that is safe consumers and other users under normal and reasonal foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consum While this material is not considered hazardous, this SD contains valuable information critical to the safe handlin proper use of the product for industrial workplace condit as well as unusual and unintended exposures such as I 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
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: 12/12/2014
1.1	02/10/2015	36762-00002	Date of first issue: 12/12/2014
Preca	autionary Statements	No smoking. P233 Keep cont P241 Use explo equipment. P242 Use only r P243 Take prec P264 Wash skin P280 Wear prot Response: P303 + P361 + I all contaminated P305 + P351 + I for several minu to do. Continue P337 + P313 If o attention. Storage: P403 + P235 St Disposal:	y from heat/sparks/open flames/hot surfaces ainer tightly closed. sion-proof electrical/ ventilating/ lighting/ non-sparking tools. autionary measures against static discharge. a 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	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. If easy to do, remove contact lens, if worn.	ater



Version 1.1	Revision Date: 02/10/2015	MSDS Number: 36762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014	
lf sv	wallowed	Get medical atte	ention. O NOT induce vomiting. ention if symptoms occur. proughly with water.	
Most important symptoms and effects, both acute and delayed		: Causes serious eye irritation.		
Protection of first-aiders		: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.		
Not	es to physician	: Treat symptoma	tically 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 loca 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 appar Use personal protective equipment.	ratus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

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



Versio 1.1	on	Revision Date: 02/10/2015		SDS Number: 762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
			:	Prevent spreading barriers). Retain and dispose Local authorities cannot be contain Non-sparking too	s should be used.
Methods and materials for containment and cleaning up		 Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spra jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked materia can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. 			
				Sections 13 and 7	I5 of this SDS provide information regarding itional 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 exh ventilation.	aust
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 and practice. Non-sparking tools should be used. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharge Take care to prevent spills, waste and minimize releas environment.	s.
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 regulat Keep away from heat and sources of ignition.	tions.
Materials to avoid	Do not store with the following product types: Strong oxidizing agents	



Version	Revision Date:	MSDS Number:	Date of last issue: 12/12/2014
1.1	02/10/2015	36762-00002	Date of first issue: 12/12/2014
			s s stances and mixtures mixtures which in contact with water emit

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u> </u>	•			
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 1.1	Revision Date: 02/10/2015		SDS Number: 762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
			by air purifying re hazardous chemi supplied respirator 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.
	protection aterial	:	Impervious glove	5
Ma	aterial	:	Flame retardant ç	loves
Re	marks	:	on the concentrat time is not detern For special applic resistance to che	protect hands against chemicals depending ion specific to place of work. Breakthrough nined for the product. Change gloves often! ations, we recommend clarifying the micals of the aforementioned protective ove manufacturer. Wash hands before end of workday.
Eye p	protection	:	Wear the followin Safety goggles	g personal protective equipment:
Skin	and body protection	:	resistance data a potential. Wear the followin Flame retardant a Skin contact mus	e protective clothing based on chemical nd an assessment of the local exposure g personal protective equipment: antistatic protective clothing. t be avoided by using impervious protective aprons, boots, etc).
Hygie	ene measures	:	located close to the When using do not	lushing 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	: gel
Color	: clear, light blue
Odor	: fruity
Odor Threshold	: No data available
рН	: 6.5 - 8.5
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: 73 °C



Vers 1.1	sion	Revision Date: 02/10/2015		DS Number: /62-00002	Date of last issue: Date of first issue:	
	Flash p	oint	:	25 °C		
	Evapor	ation rate	:	No data available		
	Flamma	ability (solid, gas)	:	Not applicable		
	Upper 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	,	:	0.881 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 clas	sified self-reactive.
	Viscosi Visco	ty osity, kinematic	:	1,000 - 17,000 m	m2/s (20 °C)	
	Explosi	ve properties	:	Not explosive		
	Oxidizir	ng properties	:	The substance or	mixture is not clas	sified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

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



ersion 1	Revision Date: 02/10/2015	MSDS Number: 36762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
ECTION	11. TOXICOLOGICA		
Inhala Skin o Inges	contact	es of exposure	
Acute	e toxicity		
Not c	lassified based on ava	ilable information.	
Produ Acute	u <u>ct:</u> e oral toxicity		/ estimate: > 5,000 mg/kg culation method
Ethar	dients: nol: e oral toxicity	: LD50 (Rat): :	> 5,000 mg/kg
	inhalation toxicity	: LC50 (Rat): Exposure tim Test atmospl	124.7 mg/l le: 4 h
	an-2-ol: e oral toxicity	: LD50 (Rat): :	> 5,000 mg/kg
Acute	inhalation toxicity	: LC50 (Rat): 7 Exposure tim Test atmospl	ie: 4 h
Acute	e dermal toxicity	: LD50 (Rat): :	> 5,000 mg/kg
	corrosion/irritation lassified based on ava	ilable information.	
<u>Produ</u> Resul	uct: lt: No skin irritation		
	dients:		

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 1.1	Revision Date: 02/10/2015		DS Number: 762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
Resu	n ol: ies: Rabbit lt: Irritation to eyes, re od: OECD Test Guide			
Speci	an-2-ol: ies: Rabbit lt: Irritation to eyes, re	versing	g within 21 days	
Resp	iratory or skin sensi	tizatio	n	
	sensitization: Not clas iratory sensitization: N			
Prod	-			
Asses	ssment: Does not cau	se skin	sensitization.	
Ethar Test Route Speci	<u>dients:</u> nol: Type: Local lymph no es of exposure: Skin c ies: Mouse lt: negative		ay (LLNA)	
Test Route Speci Metho	an-2-ol: Type: Buehler Test es of exposure: Skin c ies: Guinea pig od: OECD Test Guide It: negative		6	
Germ	cell mutagenicity			
	lassified based on ava	ailable	nformation.	
<u>Ingre</u> Ethar	<u>dients:</u> pol:			
	toxicity in vitro	:	Test Type: In vit Result: negative	ro mammalian cell gene mutation test
Geno	toxicity in vivo	:	Test Type: Rode Species: Mouse Application Rou Result: negative	te: Ingestion
Propa	an-2-ol:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
Geno	toxicity in vivo	:	cytogenetic ass Species: Mouse	te: Intraperitoneal injection

Result: negative



	Revision Date: 02/10/2015	MSDS Number: 36762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
	nogenicity assified based on availa	ble information.	
Propa Speci Applic Expos Metho	dients: an-2-ol: es: Rat cation Route: inhalation (sure time: 104 weeks od: OECD Test Guideline t: negative		
IARC	;		his product present at levels greater than or dentified as probable, possible or confirmed h by IARC.
OSH	A		nis product present at levels greater than or lentified as a carcinogen or potential carcino
NTP			his product present at levels greater than or lentified as a known or anticipated carcinog
Not cl	oductive toxicity assified based on availa dients:	ble information.	
Not cl Ingre Ethar	assified based on availa dients:	: Test Type: Two Species: Mouse Application Rot	ute: Ingestion Test Guideline 416
Not cl Ingre Ethar Effect	assified based on availa dients: nol:	: Test Type: Two Species: Mouse Application Rou Method: OECD Result: negative	e ute: Ingestion Test Guideline 416 e p-generation reproduction toxicity study ute: Ingestion
Not cl Ingre Ethar Effect Propa	assified based on availa dients: nol: is on fertility an-2-ol:	 Test Type: Two Species: Mouse Application Rou Method: OECD Result: negative Test Type: Two Species: Rat Application Rou Result: negative 	e ute: Ingestion Test Guideline 416 e o-generation reproduction toxicity study ute: Ingestion e oryo-fetal development ute: Ingestion
Not cl Ingre Ethar Effect Propa Effect Effect	assified based on availa dients: nol: s on fertility an-2-ol: s on fertility	 Test Type: Two Species: Mouse Application Rou Method: OECD Result: negative Test Type: Two Species: Rat Application Rou Result: negative Test Type: Eml Species: Rat Application Rou Result: negative 	e ute: Ingestion Test Guideline 416 e o-generation reproduction toxicity study ute: Ingestion e oryo-fetal development ute: Ingestion

Assessment: May cause drowsiness or dizziness.



Version	Revision Date:	MSDS Number:
1.1	02/10/2015	36762-00002

Date of last issue: 12/12/2014 Date of first issue: 12/12/2014

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
Propan-2-ol: 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



ersion 1	Revision Date: 02/10/2015	MSDS Number: 36762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014		
		Exposure tim	ne: 8 d		
Toxicity to bacteria		: EC50 (Pseudomonas putida): > 1,050 mg/l Exposure time: 16 h			
Persi	stence and degrada	bility			
	dients:				
Ethar Biode	nol: gradability	: Result: Read Biodegradati Exposure tim			
	a n-2-ol: gradability	: Result: rapid	: Result: rapidly degradable		
Bioad	cumulative potentia	ıl			
Ingre	dients:				
	nol: ion coefficient: n- ol/water	: log Pow: -0.3	35		
Partiti	Propan-2-ol: Partition coefficient: n- : log Pow: 0.05 octanol/water				
Mobi	lity in soil				
No da	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 Regulation

UNRTDG

UN number	:	UN 1987
Proper shipping name	:	ALCOHOLS, N.O.S.



Versio 1.1	on	Revision Date: 02/10/2015		SDS Number: 762-00002	Date of last issue: 12/12/2014 Date of first issue: 12/12/2014
				(Ethanol, Propan-	-2-ol)
С	Class		:	· ·	,
Р	ackino	g group		III	
	abels.		:	3	
14	ATA-D	GR			
	JN/ID I	-	:	UN 1987	
Р	roper	shipping name	:	Alcohols, n.o.s.	
	•			(Ethanol, Propan-	-2-ol)
С	Class		:	3	,
Р	ackino	g group	:	III	
	.abels		:	Flammable Liquid	ls
		g instruction (cargo	:	366	
	ircraft)				
Р	Packing	g instruction	:	355	
(r	passer	nger aircraft)			
I	MDG-0	Code			
U	JN nun	nber	:	UN 1987	
Р	roper	shipping name	:	ALCOHOLS, N.O	
_				(Ethanol, Propan-	-2-ol)
	Class		:	3	
	'acκinę .abels	g group	:	 3	
	mS C	ode	:	S F-E, S-D	
		pollutant		no	
					OL 72/79 and the IBC Cade
	-		-		OL 73/78 and the IBC Code
N	lot app	blicable for product as	sup	plied.	
D	omes	tic regulation			
4	9 CFR	ł			
		NA number	:	UN 1987	
		shipping name		ALCOHOLS, N.O	9.S.
C	Class		•	3	
-		g group		iii	
			•		

: FLAMMABLE LIQUID : 127

: no

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

Labels

ERG Code

Marine pollutant

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

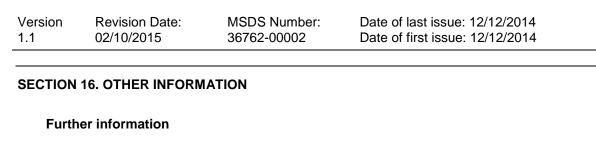


Version 1.1	Revision Date: 02/10/2015		SDS Number: 762-00002	Date of last issue: 12/12/2 Date of first issue: 12/12/2	• • •		
			Acute Health Haz	ard			
SAR	A 302	:		his material are subject to th SARA Title III, Section 302.	ne reporting		
SAR	A 313	:		The following components are subject to reporting levels established by SARA Title III, Section 313:			
			Propan-2-ol	67-63-0	3.4086 %		
USS	State Regulations						
Pen	nsylvania Right To Kno	w					
	Ethanol			64-17-5	50 - 70 %		
	Water			7732-18-5	30 - 50 %		
	Propan-2-ol			67-63-0	1 - 5 %		
New	Jersey Right To Know	,					
	Ethanol			64-17-5	50 - 70 %		
	Water			7732-18-5	30 - 50 %		
	Propan-2-ol			67-63-0	1 - 5 %		
Cali	fornia Prop 65			s not contain any chemicals a to cause cancer, birth, or a ccts.			
The	ingredients of this pro-	duct	are reported in th	ne following inventories:			
REA	СH	:	All ingredients (pr	e-)registered or exempt.			
TSC	A	:		tances in this material are in sting on the TSCA Inventory			
DSL		:	1999 and NSNR a	tances in this product comp and are on or exempt from I tic Substances List (DSL).			
AICS	6	:	All ingredients list	ed or exempt.			

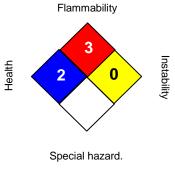
Inventories

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









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 NIOSH REL	:	USA. ACGIH Threshold Limit Values (TLV) ACGIH - Biological Exposure Indices (BEI) 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	:	02/10/2015

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



Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

: Antimicrobial

1.1. Product identifier

Product name

: ChloraPrep[®] Solutions

Relevant identified uses of the substance or mixture and uses advised against 1.2.

Use of the substance/mixture

Details of the supplier of the safety data sheet 1.3.

CareFusion 75 N. Fairway Drive Vernon Hills, IL 60061 T 800-523-0502 - F 855-329-6985

1.4. **Emergency telephone number**

Emergency number

: Chemtrec 1 800 424 9300

GHS02

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

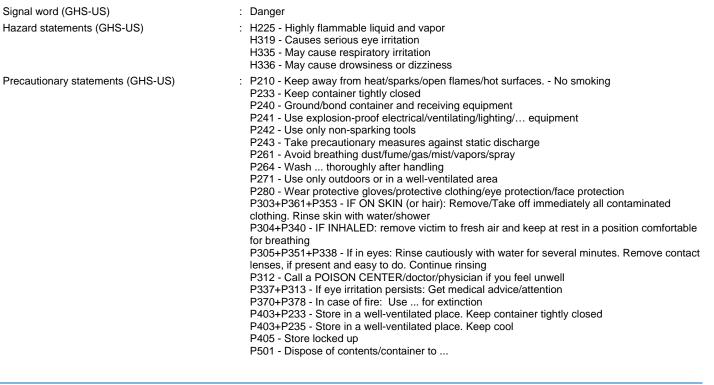
GHS-US classification

Flam. Liq. 2 H225 Eye Irrit. 2A H319 STOT SE 3 H336 STOT SE 3 H335

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



GHS07

Precautionary statements (GHS-US)

Safety Data Sheet

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS-US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

ChloraPrep[®]Clear

Name	Product identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	70	Flam. Liq. 2, H225
Chlorhexidine digluconate	(CAS No) 18472-51-0	2	Acute Tox. 4 (Oral), H302

ChloraPrep[®] Teal Green

Name	Product identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	70	Flam. Liq. 2, H225
Chlorhexidine digluconate	(CAS No) 18472-51-0	2	Acute Tox. 4 (Oral), H302
C.I. Food Green 3	(CAS No) 2353-45-9	0 - 0.1	Muta. 2, H341

ChloraPrep[®] Hi-Lite Orange

Name	Product identifier	%	GHS-US classification
Isopropyl alcohol	(CAS No) 67-63-0	70	Flam. Liq. 2, H225
Chlorhexidine digluconate	(CAS No) 18472-51-0	2	Acute Tox. 4 (Oral), H302
FD and C Yellow No. 6	(CAS No) 2783-94-0	0 - 0.1	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures after inhalation	: If symptoms of exposure develop, move to fresh air. Seek medical attention if symptoms persist.
First-aid measures after skin contact	: Wash material off the skin with copious amounts of water. If redness or a burning sensation develops, seek medical attention and discontinue use.
First-aid measures after eye contact	: Flush with copious amounts of water. After initial flushing remove any contact lenses and continue flushing for at least 15minutes. Have eyes examined and treated by medical personnel immediately.
First-aid measures after ingestion	: Give individual one to two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel. (Never give anything by mouth to an unconscious person).
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness and drowsiness.
Symptoms/injuries after skin contact	: May cause irritation, drying, defatting of the skin. Prolonged contact may cause dermatitis.
Symptoms/injuries after eye contact	: Contact may cause severe irritation with redness, tearing and pain with possible eye damage.
Symptoms/injuries after ingestion	: Ingestion may cause mucous membrane and gastrointestinal irritation, abdominal pain, nausea, vomiting, dizziness and drowsiness.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	: Water fog, alcohol-resistant foam, carbon dioxide or dry chemical. Water spray can be used to cool exposed containers and structures, dilute spills and disperse flammable vapors.
Unsuitable extinguishing media	: None.
5.2. Special hazards arising from	n the substance or mixture
Fire hazard	Highly flammable liquid and vapor. Ampoules may explode if exposed to extreme heat or flame. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back.
Explosion hazard	: None known.
04/47/0044	

Safety Data Sheet

	Advice for firefighters a during firefighting	: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.
SECTIC	ON 6: Accidental release meas	ures
6.1.	Personal precautions, protective equ	ipment and emergency procedures
General m	neasures	: No special measures required.
	For non-emergency personnel onal information available	
	For emergency responders onal information available	
	Environmental precautions ease to the environment.	
6.3.	Methods and material for containmer	nt and cleaning up
For contai	inment	: Stop the flow of material, if this is without risk.
Methods f	for cleaning up	: Wear skin, eye and respiratory protection during cleanup.For small spills, wipe or mop up and rinse to sewer serviced by a wastewater treatment facility. For large spills, eliminate sources of ignition and ventilate spill area. Soak up liquid with inert absorbent and collect into a suitable waste container. Wash residue from spill area with water and flush to sewer serviced by a wastewater treatment facility if permitted.
6.4.	Reference to other sections	
No additic	onal information available	
SECTIC	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precaution	ns for safe handling	: Avoid prolonged exposure (ingestion, inhalation, or skin contact). Avoid breathing vapors. Use in

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a cool, dry, well-ventilated area away from incompatible chemicals and all sources of ignition.

well-ventilated areas. Keep product away from heat, sparks and flames.

Specific end use(s) 7.3.

No additional information available

8.1. **Control parameters**

Isopropyl alcohol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA OSHA	OSHA PEL (TWA) (mg/m³)	980 mg/m³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

8.2. Exposure controls

• • • • • • • • • • •	
Appropriate engineering controls	: Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.
Hand protection	: Latex rubber for limited contact. Butyl rubber or nitrile recommended for prolonged contact.
Eye protection	: Safety glasses or goggles recommended if eye contact is possible.
Skin and body protection	: Wear suitable working clothes.
Respiratory protection	: If the exposure limits are exceeded a NIOSH/EN approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used.

SECTION 9: Physical and chemical properties

9.1. Information on basi	physical and chemical properties	
Physical state	: Liquid	
Appearance	: Clear in product; when activated, clear orange, teal	
04/47/0044		

Safety Data Sheet

Color		: Clear, orange, or teal	
Odor		: Odorless	
Odor thr	eshold	: No data available	
рН		: 7 - 7.5	
Relative	evaporation rate (butylacetate=1)	: No data available	
Melting p	point	: No data available	
Freezing	y point	: No data available	
Boiling p	point	: No data available	
Flash po	pint	: 67 °F	
Self ignit	tion temperature	: 2 - 12.7	
Decomp	osition temperature	: No data available	
Flamma	bility (solid, gas)	: No data available	
Vapor pi	ressure	: No data available	
Relative	vapor density at 20 °C	: No data available	
Specific	gravity	: 0.88	
Solubility	ý	: Water: Complete	
Log Pow	1	: No data available	
Log Kow	1	: No data available	
Viscosity	y, kinematic	: No data available	
Viscosity	y, dynamic	: No data available	
Explosiv	e properties	: No data available	
Oxidizin	g properties	: No data available	
Explosiv	e limits	: No data available	
9.2.	Other information		
VOC cor	ntent	: 100 %	

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Extreme heat, sparks or flame.

10.5. Incompatible materials

Oxidizing materials

10.6. Hazardous decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, ammonia, chlorine compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute	toxicity

: Not classified

Isopropyl alcohol (67-63-0)		
LD50 oral rat	4396 mg/kg	
LD50 dermal rabbit	12800 mg/kg	
LC50 inhalation rat (ppm)	16000 ppm (Exposure time: 8 h)	
Chlorhexidine digluconate (18472-5	51-0)	
ATE (oral)	500.000 mg/kg	
Skin corrosion/irritation	: Not classified	
04/17/2014	EN (English)	4/7

Safety Data Sheet

Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Isopropyl alcohol (67-63-0)	
IARC group	3 - Not classifiable
C.I. Food Green 3 (2353-45-9)	
IARC group	3 - Not classifiable
FD and C Yellow No. 6 (2783-94-0)	
IARC group	3 - Not classifiable
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness. May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Isopropyl alcohol (67-63-0)	
LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	> 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 other aquatic organisms 2	> 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Isopropyl alcohol (67-63-0)	
Log Pow	0.05 (at 25 °C)

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods Waste disposal recommendations

: Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information	
In accordance with DOT	
Transport document description	: UN1219 Isopropanol Solution, 3, II
UN-No.(DOT)	: 1219
DOT NA no.	: UN1219
DOT Proper Shipping Name	: Isopropanol Solution
Department of Transportation (DOT) Hazard Classes	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

ChloraPrep[®] Solutions Safety Data Sheet

Hazard labels (DOT)	:	3 - Flammable liquid
Packing group (DOT)	:	II - Medium Danger
DOT Special Provisions (49 CFR 172.102)	:	IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T4 - 2.65 178.274(d)(2) Normal
DOT Packaging Exceptions (49 CFR 173.xxx)	:	4b;150
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	202
DOT Packaging Bulk (49 CFR 173.xxx)	:	242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

SECTION 15: Regulatory information

15.1. US Federal regulations

Isopropyl alcohol (67-63-0)	
Listed on the United States TSCA (Toxic Sub Listed on SARA Section 313 (Specific toxic cl	
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
SARA Section 313 - Emission Reporting	1.0 % (only if manufactured by the strong acid process, no supplier notification)
C.I. Food Green 3 (2353-45-9) Listed on the United States TSCA (Toxic Sub	stances Control Act) inventory
Chlorhexidine digluconate (18472-51-0)	
Listed on the United States TSCA (Toxic Sub	stances Control Act) inventory
FD and C Yellow No. 6 (2783-94-0)	
Listed on the United States TSCA (Toxic Sub	stances Control Act) inventory

15.2. US State regulations

Isopropyl alcohol (67	/-63-0)	
U.S Massachusetts		
	zardous Substance List ght to Know Hazardous Substance List	
	RTK (Right to Know) List	

SECTION 16: Other information

Full text of H-phrases:

one of the prince		
Acute To:	x. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	2A	Serious eye damage/eye irritation, Category 2A
Flam. Liq	2	Flammable liquids, Category 2
Muta. 2		Germ cell mutagenicity, Category 2
STOT SE	3	Specific target organ toxicity — Single exposure, Category 3, Narcosis

ChloraPrep[®] Solutions Safety Data Sheet

STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H341	Suspected of causing genetic defects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product



SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date New

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier	
Product Name	Aplicare® Alcohol Swabsticks
Other means of identification	
Product Code(s)	S-1105, S-1105-1S, S-3105, S-3105-5S
Recommended use of the chemical	and restrictions on use
Recommended Use	Topical skin antiseptic
Uses advised against	No information available
Details of the supplier of the safety	data sheet
Supplier Name Supplier Address	Aplicare Inc. 550 Research Parkway Meriden, CT 06450
Supplier Phone Number	Phone: 203-630-0500
Emergency telephone number	
Emergency Phone Numbers	For Medical Emergencies call: 1-800-446-1014 For Transportation Emergencies, call Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

Emergency Overview

GHS Label elements, including precautionary statements

Signal word	Danger			
Hazard Statements Causes serious eye irritation May cause drowsiness or dizziness Highly flammable liquid and vapor				
Appearance Clear, colorless liquid absorbed into white, rayon swabs on polystyrene sticks	Physical State rayon swabs	Thin liquid absorbed into	Odor	Alcohol

Wear protective gloves/eye protection

Avoid breathing mist/vapors/spray Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Precautionary Statements - Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor if you feel unwell If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water. In case of fire: Use CO2, dry chemical, or foam for extinction.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal in accordance with all applicable federal, state, and local regulations. Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

None of the mixture consists of ingredient(s) of unknown toxicity

Other information

Prolonged or repeated contact may dry skin and cause irritation.

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Isopropyl alcohol	67-63-0	60 - 80	*
* 7	and the first of a survey a still star large	the state of the level of the state of the s	

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice	Show this safety data sheet to the doctor in attendance.	
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.	
Skin Contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation, call a doctor.	
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. If symptoms persist, call a doctor.	
Ingestion	Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.	
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Remove all sources of ignition. Use personal protective equipment as required.	
Most important symptoms and effects, both acute and delayed		
Most Important Symptoms and Effects	Burning sensation.	
Indication of any immediate med	dical attention and special treatment needed	

Notes to Physician Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam.

Unsuitable extinguishing media

CAUTION: This product has a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use straight streams.

Specific Hazards Arising from the Chemical

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.
Other Information	Water spray may reduce vapor; but may not prevent ignition in closed spaces.
Environmental Precautions	
Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for containm	ent and cleaning up
Methods for Containment	A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.
Methods for cleaning up	Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling <u>Conditions for safe storage, includ</u>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.
Incompatible Products	Strong oxidizing agents. Acids. Chlorinated compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures	Showers Eyewash stations Ventilation systems
Individual protection measures, su	ch as personal protective equipment
Eye/Face Protection	None required for consumer use. If splashes are likely to occur:. Tight sealing safety goggles.
Skin and Body Protection	Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State Appearance Color	Thin liquid absorbed into pads Clear, thin liquid absorbed into rayon swabs on polystyrene sticks Colorless liquid - white swabs and sticks	Odor Odor Threshold	Alcohol No information available
Property	Values	Remarks/ Method	
pH	No data available	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	18° C (liquid)	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas) Flammability Limit in Air	No data available	None known	
Upper flammability limit	No data available	None known	
Lower flammability limit	No data available	None known	
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	~0.88 (liquid)	None known	
Water Solubility	Soluble in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/wate		None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity Dynamic viscosity	No data available No data available	None known None known	
Explosive properties	No data available	None known	
Oxidizing Properties	No data available		
Oxidizing Properties	NO UAIA AVAIIADIE		
Other Information Softening Point VOC Content (%)	No data available No data available		
Particle Size	No data available		
Particle Size Distribution	No data available		

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Acids. Chlorinated compounds.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	May cause redness, itching, and pain.
Skin Contact	Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol 67-63-0	4.4 g/kg (Rat)	12.8 g/kg (Rabbit)	16000 ppm (Rat, 8 h)

Information on toxicological effects

Symptoms	May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 3		Х

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	Contains a known or suspected carcinogen.
Target Organ Effects	Eyes. Respiratory system. Skin. Blood. Kidney. Liver. Spleen. Systemic Toxicity.
Aspiration Hazard	No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 6.3 g/kg ATEmix (dermal) 18 g/kg (ATE) ATEmix (inhalation-vapor) 79 ATEmix

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
lsopropyl alcohol 67-63-0	96h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	(Pimephales promelas) 96h		48h EC50: = 13299 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Isopropyl alcohol 67-63-0	0.05

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations.

Contaminated Packaging

Dispose of in accordance with all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

DOT Limited quantity. TDG UN-No. UN1993 **Proper Shipping Name** FLAMMABLE LIQUID, N.O.S. **Hazard Class** 3 **Packing Group** Ш Description UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II ICAO UN-No. UN1993 **Proper Shipping Name** FLAMMABLE LIQUID, N.O.S. Hazard Class 3 **Packing Group** Ш Description UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II IATA UN-No. UN1993 **Proper Shipping Name** FLAMMABLE LIQUID, N.O.S. **Hazard Class** 3 **Packing Group** Ш Description UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II IMDG/IMO UN-No. UN1993 **Proper Shipping Name** FLAMMABLE LIQUID, N.O.S. **Hazard Class** 3 **Packing Group** Ш EmS No. F-E, S-E Description UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II, (23°C C.C.) **Classification code** F1 **Special Provisions** 274, 601, 640D Description UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II Limited Quantity 1 L Ventilation **VE01**

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies DSL All compo

All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory **DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical that is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	30 - 60	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances that are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

<u>CERCLA</u>

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Isopropyl alcohol 67-63-0	Х	х	Х	Х	

International Regulations

Canada WHMIS Hazard Class B2 - Flammable liquid D2B - Toxic materials



16. OTHER INFORMATION							
NFPA	Health Hazards	2	Flammability	3	Instability 0	Physical and Chemical Hazards -	
HMIS	Health Hazards	2	Flammability	3	Physical Hazard 0	Personal Protection	
Prepared By	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501						
Revision Date	New						
Revision Note	New						
Reference	INTOC)09/E	2005				

Disclaimer

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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet