

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.



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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 <b>Response:</b> P303 + P361 + I all contaminated P305 + P351 + I for several minu to do. Continue P337 + P313 If o attention. <b>Storage:</b> P403 + P235 St <b>Disposal:</b>	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



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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	<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.



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			:	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		<ul> <li>Soak up with inert absorbent material.</li> <li>Suppress (knock down) gases/vapors/mists with a water spra jet.</li> <li>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.</li> <li>Clean up remaining materials from spill with suitable absorbent.</li> <li>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.</li> </ul>			
				Sections 13 and 7	IS 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	



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			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



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			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



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	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	<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.



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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
	<b>corrosion/irritation</b> lassified based on ava	ilable information.	
<u>Produ</u> Resul	<b>uct:</b> 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:



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Resu	n <b>ol:</b> ies: Rabbit lt: Irritation to eyes, re od: OECD Test Guide			
Speci	<b>an-2-ol:</b> 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.	
<b>Ethar</b> 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	<b>an-2-ol:</b> 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



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	<b>nogenicity</b> 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:	<ul> <li>Test Type: Two Species: Mouse Application Rou Method: OECD Result: negative</li> <li>Test Type: Two Species: Rat Application Rou Result: negative</li> </ul>	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	<ul> <li>Test Type: Two Species: Mouse Application Rou Method: OECD Result: negative</li> <li>Test Type: Two Species: Rat Application Rou Result: negative</li> <li>Test Type: Eml Species: Rat Application Rou Result: negative</li> </ul>	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.



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### 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



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		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:				
<b>Ethar</b> Biode	nol: gradability	: Result: Read Biodegradati Exposure tim			
	a <b>n-2-ol:</b> gradability	: Result: rapid	: Result: rapidly degradable		
Bioad	cumulative potentia	ıl			
Ingre	dients:				
	<b>nol:</b> 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 <b>adverse effects</b> 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

UNRTDG

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



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		(Ethanol, Propan-2-ol)	
Clas	S	: 3	
Pacl	king group	: 111	
Labe	·	: 3	
IAT	A-DGR		
UN/I	D No.	: UN 1987	
Prop	per shipping name	: Alcohols, n.o.s.	
		(Ethanol, Propan-2-ol)	
Clas	S	: 3	
Pacl	king group	: 111	
Labe		: Flammable Liquids	
Pacl	king instruction (cargo	: 366	
aircr			
	king instruction	: 355	
(pas	senger aircraft)		
IMD	G-Code		
UN I	number	: UN 1987	
Prop	per shipping name	: ALCOHOLS, N.O.S.	
		(Ethanol, Propan-2-ol)	
Clas		: 3 : III	
Labe	king group	: 3	
	S Code	: F-E, S-D	
	ne pollutant	: no	
	•	g to Annex II of MARPOL 73/78 and the IBC Co	ode
	applicable for product as	-	
Dom	actic regulation		
Doll	nestic regulation		
49 C			
	D/NA number	: UN 1987	
Prop	per shipping name	: ALCOHOLS, N.O.S.	
Clas	S	: 3	
Pacl	king group	: 111	
1.1			

: 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

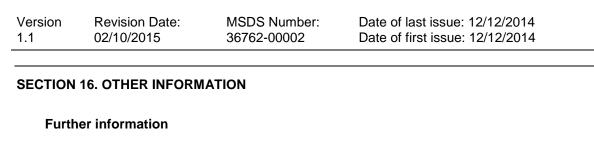


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			Acute Health Haz	ard		
SAR	SARA 302 :		No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
SAR	SARA 313 :		The following components are subject to reporting levels established by SARA Title III, Section 313:			
			Propan-2-ol	67-63-0	3.4086 %	
US S	State Regulations					
Peni	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	,				
non	Ethanol			64-17-5	50 - 70 %	
	Water			7732-18-5	30 - 50 %	
	Propan-2-ol			67-63-0	1 - 5 %	
Calif	fornia Prop 65		This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.			
The	ingredients of this pro	duct	are reported in th	ne following inventories:		
REA	СН	:	All ingredients (pr	e-)registered or exempt.		
TSC	A	:		tances in this material are ir 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	3	:	All ingredients list	ed or exempt.		

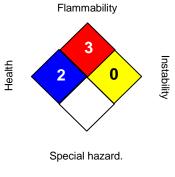
### Inventories

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