

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue Date : 4/15/2020

Version: 1.0

13500	Date : 4/15/2020 Version: 1.0
SECTION 1: Identification of the s	ubstance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Pure Hand & Surface Sanitizing Spray 6/6 OZ
Product code	: PHS231-6
1.2. Relevant identified uses of the s	ubstance or mixture and uses advised against
1.3. Details of the supplier of the safe	ety data sheet
Technical Chemical Company PO BOX 139 76033 Cleburne, TX T 817-645-6088	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC 24 Hour 1-800-424-9300, 1-703-527-3887 (International)
SECTION 2: Hazards identification	n
2.1. Classification of the substance of	
GHS US classification	
Flam. Liq. 3 H226	
Eye Irrit. 2 H319	
STOT SE 1 H370 STOT SE 3 H336	
Full text of H statements : see section 16	
2.2. Label elements	
GHS US labeling	
Hazard pictograms (GHS US)	
	GHS02 GHS07 GHS08
Signal word (GHS US)	: Danger
Hazard statements (GHS US)	 H226 - Flammable liquid and vapour H319 - Causes serious eye irritation H336 - May cause drowsiness or dizziness H370 - Causes damage to organs
Precautionary statements (GHS US)	 P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed.
	P240 - Ground/Bond container and receiving equipment. P241 - Use explosion-proof electrical, ventilating, lighting equipment
	P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge.
	P260 - Do not breathe dust,fumes,gas,mist,vapor spray P261 - Avoid breathing dust,fume,gas,mist,vapor spray
	P261 - Wold breathing dust, turne, gas, hist, vapor spray P264 - Wash affected areas thoroughly after handling
	P270 - Do not eat, drink or smoke when using this product.
	P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves,protective clothing,eye protection,face protection
	P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
	skin with water/shower.
	P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove
	contact lenses, if present and easy to do. Continue rinsing. P307+P311 - If exposed: Call a poison center/doctor.
	P312 - Call a POISON CONTROL CENTER, doctor, if you feel unwell.
	P321 - Specific treatment: See section 4.1 on SDS
	P337+P313 - If eye irritation persists: Get medical advice/attention. P370+P378 - In case of fire: See Section 5.1 Extinguishing Media
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P403+P235 - Store in a well-ventilated place. Keep cool.
	P405 - Store locked up. P501 - Dispose of contents/container to appropriate waste disposal facility, in accordance with
	local, regional, national, international regulations.

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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

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Ethanol		70 – 85	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 1, H370 STOT SE 3, H336
DI - Water	(CAS-No.) 7789-20-0	10 – 30	Not classified
Glycerol	(CAS-No.) 56-81-5	1 – 5	Not classified
Nonylphenolpolyethyleneglycol Ether, conc=70%, Aqueous Solution	(CAS-No.) 9016-45-9	≤ 0.24	Not classified

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a POISON CENTER or doctor/physician. Specific treatment: See section 4.1 on SDS.
First-aid measures after inhalation	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effe	ects, both acute and delayed
Symptoms/effects	: Causes damage to organs.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
4.3. Indication of any immediate medic	al attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the s	ubstance or mixture
Fire hazard	: Flammable liquid and vapour.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release me	
	quipment and emergency procedures
General measures	: Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking.
6.1.1. For non-emergency personnel	

6.1.2.	For emergency responders	
Protectiv	ve equipment	: Equip cleanup crew with proper protection. Avoid breathing dust,fume,gas,mist,vapor spray.
Emerge	ncy procedures	: Ventilate area.
6.2.	Environmental precautions	

: Evacuate unnecessary personnel.

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Emergency procedures

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6.3. Methods and material for contain	nent and cleaning up	
Methods for cleaning up	: Soak up spills with inert solids, such as cl spillage. Store away from other materials	lay or diatomaceous earth as soon as possible. Collec
6.4. Reference to other sections		
See Heading 8. Exposure controls and person	al protection.	
SECTION 7: Handling and storage		
7.1. Precautions for safe handling		
Additional hazards when processed	: Handle empty containers with care becau	ise residual vapors are flammable.
Precautions for safe handling	smoking and when leaving work. Provide of vapor. Avoid breathing dust,fume,gas,r ventilated area. Do not breathe dust,fume	th mild soap and water before eating, drinking or good ventilation in process area to prevent formation nist,vapor spray. Use only outdoors or in a well- es,gas,mist,vapor spray. No open flames. No smoking ttic discharge. Use only non-sparking tools.
Hygiene measures	: Wash affected areas thoroughly after han	ndling.
7.2. Conditions for safe storage, inclu	ling any incompatibilities	
Technical measures		atic electricity should be followed. Ground/bond explosion-proof electrical, ventilating, lighting
Storage conditions	: Keep only in the original container in a co tightly closed.	ol, well ventilated place away from : Keep container
Incompatible products	: Strong bases. Strong acids.	
Incompatible materials	: Sources of ignition. Direct sunlight. Heat	sources.
7.3. Specific end use(s)		
No additional information available		
SECTION 8: Exposure controls/pe	sonal protection	
8.1. Control parameters		
Ethanol		
USA ACGIH ACGIH STE	_ (ppm) 1(000 ppm
8.2. Exposure controls		
Personal protective equipment	: Avoid all unnecessary exposure.	
Hand protection	: Wear protective gloves.	
Eye protection	: Chemical goggles or safety glasses.	
Respiratory protection	: Where exposure through inhalation may a recommended.	occur from use, respiratory protection equipment is
Other information	: Do not eat, drink or smoke during use.	
SECTION 9: Physical and chemica	properties	
9.1. Information on basic physical and		
Physical state	: Liquid	
Color	: Colorless.	
Odor	: characteristic.	
Odor threshold	: No data available	
bH	: No data available	
Relative evaporation rate (butyl acetate=1)	: No data available	
Melting point	: No data available	
Freezing point	: No data available	
	: No data available	
Bolling point		
Flash point	: No data available	
Boiling point Flash point Auto-ignition temperature Decomposition temperature		

: No data available : No data available

: No data available : No data available

: No data available

: No data available

EN (English US)

Flammability (solid, gas)

Relative vapor density at 20 °C

Partition coefficient n-octanol/water (Log Pow)

Vapor pressure

Relative density Solubility

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Partition coefficient n-octanol/water (Log Kow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Flammable liquid and vapour. May form flamma	ble/explosive vapor-air mixture.
10.3. Possibility of hazardous reactions	
Not established.	
10.4. Conditions to avoid	
Direct sunlight. Extremely high or low temperatu	ires. Open flame. Overheating. Heat. Sparks.
10.5. Incompatible materials	
Strong acids. Strong bases.	
10.6. Hazardous decomposition products	S
Toxic fume Carbon monoxide. Carbon dioxide	. May release flammable gases.
SECTION 11: Toxicological information	tion
11.1. Information on toxicological effects	\$
Acute toxicity	: Not classified

	. Not classified
Ethanol	
LD50 oral rat	10470 mg/kg body weight (OECD 401: Acute Oral Toxicity, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 15800 mg/kg body weight (Rabbit, Experimental value, Dermal)
LC50 inhalation rat (mg/l)	125 mg/l/4h (Equivalent or similar to OECD 403, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))
ATE CLP (oral)	10470 mg/kg body weight
Glycerol (56-81-5)	
LD50 oral rat	27200 mg/kg (OECD 401: Acute Oral Toxicity, Rat, Female, Experimental value, Oral)
LC50 inhalation rat (mg/l)	> 2.75 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male, Converted value, Inhalation (vapours))
ATE CLP (oral)	27200 mg/kg body weight
ATE CLP (dermal)	56750 mg/kg body weight
Nonylphenolpolyethyleneglycol Ether, con	c=70%, Aqueous Solution (9016-45-9)
LD50 oral rat	> 15000 mg/kg (Rat, Oral)
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classifiedBased on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classifiedBased on available data, the classification criteria are not met
STOT-single exposure	: Causes damage to organs. May cause drowsiness or dizziness.
STOT-repeated exposure	: Not classifiedBased on available data, the classification criteria are not met
Aspiration hazard	: Not classifiedBased on available data, the classification criteria are not met
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.

SECTION 12: Ecological information 12.1. Toxicity

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Ethanol	
LC50 fish 1	15300 mg/l (US EPA, 96 h, Pimephales promelas, Flow-through system, Fresh water,
	Experimental value, Lethal)
Glycerol (56-81-5)	
LC50 fish 1	54000 mg/l (96 h, Salmo gairdneri, Static system, Fresh water, Experimental value, Lethal)
EC50 Daphnia 1	> 10000 mg/l (24 h, Daphnia magna, Static system, Fresh water, Experimental value, Locomotor effect)
Nonylphenolpolyethyleneglycol Ether, conc=	70%, Aqueous Solution (9016-45-9)
LC50 fish 1	> 1000 mg/l (Pisces)
12.2. Persistence and degradability	
Pure Hand & Surface Sanitizing Spray 6/6 OZ	
Persistence and degradability	Not established.
Ethanol	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Highly mobile in soil. Not established.
Biochemical oxygen demand (BOD)	$0.8 - 0.967 \text{ g O}_2$ /g substance
Chemical oxygen demand (COD)	1.7 g O ₂ /g substance
ThOD	2.1 g O ₂ /g substance
BOD (% of ThOD)	0.43
DI - Water (7789-20-0)	
Persistence and degradability	Not established.
Glycerol (56-81-5)	
Persistence and degradability	Readily biodegradable in water. Not established.
Biochemical oxygen demand (BOD)	0.87 g O_2 /g substance
Chemical oxygen demand (COD)	1.16 g O ₂ /g substance
ThOD	1.217 g O ₂ /g substance
BOD (% of ThOD)	0.71
Nonylphenolpolyethyleneglycol Ether, conc=	70%, Aqueous Solution (9016-45-9)
Persistence and degradability	Biodegradability in water: no data available.
12.3. Bioaccumulative potential	·
Pure Hand & Surface Sanitizing Spray 6/6 OZ	
Bioaccumulative potential	Not established.
Ethanol	
BCF fish 1	1 (Other, 72 h, Cyprinus carpio, Static system, Fresh water, Read-across)
Partition coefficient n-octanol/water (Log Pow)	-0.31 (Experimental value)
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.
DI - Water (7789-20-0)	
Bioaccumulative potential	Not established.
Glycerol (56-81-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.75 (Experimental value, Equivalent or similar to OECD 107, 25 °C)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.
Nonylphenolpolyethyleneglycol Ether, conc=	
Bioaccumulative potential	No bioaccumulation data available.
12.4. Mobility in soil	
Ethanol	
Surface tension	22.31 mN/m (20 °C, 100 %)
Partition coefficient n-octanol/water (Log Koc)	0.2 (log Koc, Experimental value)
Ecology - soil	Highly mobile in soil.
Glycerol (56-81-5)	
Surface tension	0.0634 N/m (20 °C, 1000 g/l)
Ecology - soil	No (test)data on mobility of the substance available.
Nonylphenolpolyethyleneglycol Ether, conc=	70%, Aqueous Solution (9016-45-9)
Ecology - soil	No (test)data on mobility of the components available.
12.5. Other adverse effects	
Other information	: Avoid release to the environment.

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SECTION 13: Disposa	al consideration	S
13.1. Waste treatment	methods	
Product/Packaging disposal	recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to appropriate waste disposal facility, in accordance with local, regional, national, international regulations.
Additional information		: Handle empty containers with care because residual vapors are flammable.
Ecology - waste materials		: Avoid release to the environment.
SECTION 14: Transpo	ort information	
US DOT (ground): UN	1950, 1950, Aerosol	s, 2.1,
ICAO/IATA (air): UN	1950, 1950, Aerosol	s, 2.1,
IMO/IMDG (water): UN	1950, 1950, Aerosol	s, 2.1,
Special Provisions: N8	32 - See 173.306 of th	nis subchapter for classification criteria for flammable aerosols.
In accordance with ADR / RI	D / IMDG / IATA / AD	DN
14.1.UN numberUN-No.(DOT)		: 1950
DOT NA No		UN1950
14.2. UN proper shippi	ing name	
Proper Shipping Name (DOT	•	: Aerosols
	,	Flammable, (each not exceeding 1 L capacity)
Class (DOT)		: 2.1 - Class 2.1 - Flammable gas 49 CFR 173.115
Hazard labels (DOT)		: LTD QTY - Limited quantity
DOT Special Provisions (49	CFR 172.102)	 N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols.
DOT Packaging Exceptions	(49 CFR 173.xxx)	: 306
DOT Packaging Non Bulk (4	9 CFR 173.xxx)	: None
DOT Packaging Bulk (49 CF	R 173.xxx)	: None
14.3. Additional informat	ion	
Emergency Response Guide	e (ERG) Number	: 126
Other information		: No supplementary information available.
Overland transport		
No additional information ava	ailable	
Transport by sea		
DOT Vessel Stowage Location	on	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other		: 48 - Stow "away from" sources of heat,87 - Stow "separated from" Class 1 (explosives) except Division 14,126 - Segregation same as for Class 9, miscellaneous hazardous materials
Air transport		
DOT Quantity Limitations Pa (49 CFR 173.27)	assenger aircraft/rail	: 75 kg
DOT Quantity Limitations Ca CFR 175.75)	argo aircraft only (49	: 150 kg
SECTION 15: Regulat	ory information	
15.1. US Federal regulation	าร	
Pure Hand & Surface San	nitizing Spray 6/6 OZ	
Not listed on the United Sta	ates TSCA (Toxic Sul	bstances Control Act) inventory
Ethanol		
Listed on the United States	s TSCA (Toxic Substa	ances Control Act) inventory
DI - Water (7789-20-0)		
Listed on the United States	s TSCA (Toxic Substa	ances Control Act) inventory

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Glycerol (56-81-5)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
Nonylphenolpolyethyleneglycol Ether, conc=70%, Aqueous Solution (9016-45-9)	
Listed on the United States TSCA (Toxic Sul Subject to reporting requirements of United S	
EPA TSCA Regulatory Flag SP - SP - indicates a substance that is identified in a proposed Significant New Use Rule.	
15.2. International regulations	

CANADA

DI - Water (7789-20-0)	
Listed on the Canadian DSL (Domestic Substances List)	
Glycerol (56-81-5)	
Listed on the Canadian DSL (Domestic Substances List)	
WHMIS Classification Uncontrolled product according to WHMIS classification criteria	
Nonylphenolpolyethyleneglycol Ether, conc=70%, Aqueous Solution (9016-45-9)	
Listed on the Canadian DSL (Domestic Substances List)	

EU-Regulations

DI - Water (7789-20-0)
Glycerol (56-81-5)
Nonylphenolpolyethyleneglycol Ether, conc=70%, Aqueous Solution (9016-45-9)

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

15.2.2. National regulations

Pure Hand & Surface Sanitizing Spray 6/6 OZ				
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)				
Ethanol				
Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)				
DI - Water (7789-20-0)				
Glycerol (56-81-5)				
Nonylphenolpolyethyleneglycol Ether, conc=70%, Aqueous Solution (9016-45-9)				

15.3. US State regulations

0								
Pure Hand & Surface Sanitizing Spray 6/6 OZ()								
U.S California - Proposition 65 - Carcinogens List		No						
U.S California - Proposition 65 - Developmental Toxicity		No						
U.S California - Proposition 65 - Reproductive Toxicity - Female		No						
U.S California - Proposition 65 - Reproductive Toxicity - Male		No						
Ethanol								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)			
Yes	Yes		No	No				
DI - Water (7789-20-0)								
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity		U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)			
No	No		No	No				

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Glycerol (56-81-5)							
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)			
No	No	No	No				
Nonylphenolpolyethyleneg	Nonylphenolpolyethyleneglycol Ether, conc=70%, Aqueous Solution (9016-45-9)						
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)			
No	No	No	No				
Ethanol							
State or local regulations							
U.S New Jersey - Right to Know Hazardous Substance List U.S. – New York City – Right to Know Hazardous Substances List U.S Pennsylvania - RTK (Right to Know) List							
Glycerol (56-81-5)							
State or local regulations							
U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List							
SECTION 16: Other in	formation						
Indication of changes		ion - See : *.					
Other information	: None.						

Full text of H-phrases:

H225	Highly flammable liquid and vapour				
H226	Flammable liquid and vapour				
H319	Causes serious eye irritation				
H336	May cause drowsiness or dizziness				
H370	Causes damage to organs				

Hazard Rating

SDS US (GHS HazCom 2012) - Section 14

The Supplier identified in Section 1 of this SDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product

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