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Prepared to OSHA, ACC, ANSI, NOHSC, WHMIS, GHS & 1272/2008/EC Standards SDS Revision Date: 4/3/2020 SDS Revision: 1.0 1. PRODUCT & COMPANY IDENTIFICATION Product Name 11 Relief Chemistry Hand Sanitizer 80% (Health Act Compliant) 1.2 Chemical Name: Ethanol solution 1.3 Synonyms Trade Names: 1.4 Relief Chemistry Hand Sanitizer 80% (Health Act Compliant Product Use: 1.5 Sundry Distributor's Name: 1.6 Relief Chemistry Distributor's Address: 17 18 Emergency Phone: Business Phone / Fax: 1.9 HAZARDS IDENTIFICATION Hazard Identification: 2.1 This product is classified as a HAZARDOUS SUBSTANCE but not as DANGEROUS GOODS according to the classification criteria of NOHSC: 1088 (2004) and ADG Code (Australia). WARNING! HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SERIOUS EYE IRRITATION. Classification: Flam. Liq. 2; Eye Irrit. 2B 22 Label Elements: Hazard Statements (H): H225 - Highly flammable liquid and vapor. H319 - Causes serous eye Precautionary Statements (P): P210 - Keep away from heat/sparks/open flame/hot surfaces - No Smoking. P233 - Keep container tightly closed. P261 - Avoid breathing vapors/mist/spray. P272 -Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective eye protection/face protection. P305+P351+P338 - IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing. P370+P378 - In case of fire: Use CO₂, Halon (if permitted), dry chemical, or foam for extinction. P403+P235 -Store in a well-ventilated place. Keep cool. P501 - Dispose of contents/container to a licensed treatment, storage or disposal facility (TSDF). 2.3 Other Warnings: KEEP OUT OF REACH OF CHILDREN. In the event of an exposure or medical inquiry involving this product, please contact a physician or local poison control center, who may seek advice from the U.S. manufacturer, and show them this 3. COMPOSITION & INGREDIENT INFORMATION EXPOSURE LIMITS IN AIR (mg/m³) ACGIH NOHSC OSHA ppm ppm ppm ES-ES-ES-CHEMICAL NAME(S) CAS No. RTECS No. **EINECS No** STEL TWA STEL PEAK PEL STEL IDLH OTHER 80-90 64-17-5 KQ6300000 200-578-6 1000 | 3000 | 1000 | 1800 | NF 1000 1900 3300 ETHANOL (SD ALCOHOL 40B) Flam. Liq. 2; H225 7732-18-5 ZC0110000 231-191-2 10-20 ΝE NE NF NF NF NE NE NE WATER 56-81-5 MA8050000 200-289-5 1-5 NA NA NF NA NF NF NA NA **GLYCERIN** 7722-84-1 MX0900000 231-765-0 0-1 1.0 NE 1.0 NF NF 1.0 NE 75 HYDROGEN PEROXIDE (33%) Eye Irrit. 2; H319 4. FIRST AID MEASURES 4 1 First Aid: DO NOT INDUCE VOMITING. Contact ChemTrec at +1 (703) 527-3887 or the nearest Poison Control Ingestion: Center or local emergency telephone number for assistance and instructions. Seek immediate medical attention. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of Flush eyes thoroughly with copious amounts of water for at least 15 minutes, holding eyelid(s) open to Eyes: ensure complete flushing. If irritation persists, seek immediate medical attention. Skin: Remove contaminated clothing and wash affected areas with soap and water. If irritation persists, seek prompt medical attention. Do not wear contaminated clothing until after it has been properly cleaned. Remove victim to fresh air at once. If breathing is difficult, administer supplemental oxygen and seek Inhalation: immediate medical attention. If breathing stops, perform artificial respiration. Effects of Exposure: 4.2 Ingestion: If product is swallowed, may cause nausea, vomiting and/or diarrhea. Moderately irritating to the eyes. Eyes: This product can cause mild, transient skin irritation with short-term exposure. This product can cause Skin: allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.

Vapors of this product may be irritating to the nose, throat and other tissues of the respiratory system.

Inhalation:



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		4. FIRST AID MEASURES – cont'o	d	
4.3	Symptoms of Overexposure:	Symptoms of skin overexposure may include redness, itching, and irritation of affected areas. Overexposure in eyes may cause redness, itching and watering. The product can cause allergic skin reactions (e.g., rashes, welts, dermatitis) upon prolonged or repeated exposure.		
4.4	Acute Health Effects:	Moderate irritation to eyes and skin near affected areas. Additionally, high concentrations of vapors can cause drowsiness, dizziness, headaches and nausea.		
4.5	Chronic Health Effects:	The material may accentuate any pre-existing dermatitis condition.		
4.6	Target Organs:	Eyes, Skin & Respiratory System.		
4.7	Medical Conditions Aggravated by Exposure:	Persons with pre-existing skin disorders, eye problems, or impaired	HEALTH	1
	, ,	kidney function may be more susceptible to the effects of the substance.	FLAMMABILITY	3
			PHYSICAL HAZARDS	0
			PROTECTIVE EQUIPMENT	В
			EYES SKIN	
		5. FIREFIGHTING MEASURES		
5.1	Fire & Explosion Hazards:	Keep away from heat, lit cigarettes, sparks & open flame. Keep contain	ner closed. When exposed	
		to high temperatures, may produce hazardous decomposition products (e.g., CO, CO ₂) and nitrogen (e.g., NO _x) and smoke.		•
5.2	Extinguishing Methods:	Water, Foam, CO ₂ , Dry Chemical, Halon (if permitted)		3
5.3	Firefighting Procedures:	As in any fire, wear MSHA/NIOSH approved self-contained breathing apparatus (pressure-demand) and full protective gear. Keep containers cool until well after the fire is out. Use water spray to cool fire-exposed surfaces and to protect personnel. Fight fire upwind. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply, or any natural waterway. Firefighters must use full bunker gear including NIOSH-approved positive pressure self-		
		contained breathing apparatus to protect against potential hadecomposition products and oxygen deficiencies.	azardous combustion or	
		6. ACCIDENTAL RELEASE MEASUR	RES	
		Before cleaning any spill or leak, individuals involved in spill cleanup must wear appropriate Personal Protective Equipment. CAUTION – may be slippery if spilled. For small spills (e.g., < 1 gallon (3.8 L)) wear appropriate personal protective equipment (e.g., goggles, gloves) Maximize ventilation (open doors and windows) and secure all sources of ignition. Remove spilled material with absorbent material and place into appropriate closed container(s) for disposal. Dispose of properly in accordance with local, state and federal regulations. Wash all affected areas and outside of container with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. For large spills (e.g., ≥ 1 gallon (3.8 L)), deny entry to all unprotected individuals. Dike and contain spill with inet material (e.g., sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Transfer liquid to containers for recovery or disposal and solid diking material to separate containers for proper disposal. Remove contaminated clothing promptly and wash affected skin areas with soap and water. Keep spills and cleaning runoffs out of municipal sewer and open bodies of water.		
			FIAN	
	Lw., au. : 5 "	7. HANDLING & STORAGE INFORMAT		
7.1	Work & Hygiene Practices:	Use normal hygiene practices. Avoid direct skin contact. Wash hand eating, drinking, or smoking. Good personal hygiene practices, such a contaminated clothing, are recommended.		
7.2	Storage & Handling:	Keep away from sources of heat.		
7.3	Special Precautions:	Follow all instructions on product label. Keep container closed when no of children.	t in use. Keep this and all chemicals	out of read
		8. EXPOSURE CONTROLS & PERSONAL PR	ROTECTION	
.1	Exposure Limits:	ACGIH NOHSC		THER
	ppm (mg/m³)	ES-	ES-	
		CHEMICAL NAME(S) TLV STEL ES-TWA STEL ETHANOL (SD ALCOHOL 40B) 1000 3000 1000 1800	PEAK PEL STEL IDLH NF 1000 1900 3300	
		HYDROGEN PEROXIDE 1.0 NE 1.0 NF	NF 1.0 NE 75	
3.2	Ventilation & Engineering Controls:	General mechanical (e.g., fans) or natural ventilation is sufficient whe exhaust ventilation to effectively remove and prevent buildup of vapor product. Ensure that an eyewash station, sink or washbasin is available	ors or mist generated from the han	
8.3	Respiratory Protection:	Not required under normal conditions of use. In instances where vapors or sprays of this product are generated, and respiratory protection is needed, use only protection authorized by 29 CFR §1910.134, applicable U.S. State regulations, or the Canadian CAS Standard Z94.4-93 and applicable standards of Canadian Provinces, EC member States, or Australia.		



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	8. I	EXPOSURE CONTROLS & PERSONAL PROTECTION – cont'd		
8.4	Eye Protection:	AVOID EYE CONTACT DUE TO IRRITATION POTENTIAL. Wear protective eyewear (e.g., safety glasses with side-shield) at all times when handling large quantities (e.g., ≥ 1 gallon (3.8 L)) of this product. Always use protective eyewear when cleaning spills or leaks. Contact lenses pose a special hazard; soft lenses may absorb and concentrate irritants.		
8.5	Hand Protection:	None required under normal conditions of use. However, may cause skin irritation in some sensitive individuals. If anticipated that prolonged & repeated skin contact will occur during use of this product, wear latex or rubber gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, the appropriate standards of Canada, of the EU member states.		
8.6	Body Protection:	No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate standards of Canada, the EU member states, or U.S. OSHA.		
		9. PHYSICAL & CHEMICAL PROPERTIES		
9.1	Appearance:	Clear to slightly hazy liquid		
9.2	Odor:	NA		
9.3	Odor Threshold:	NA NA		
9.4	pH:	3		
9.5	Melting Point/Freezing Point:	NA .		
9.6	Initial Boiling Point/Boiling			
0.7	Range:	78.3 °C (172.94 °F) as ethanol		
9.7	Flashpoint:	17.22 - 18.33 °C (63 - 65 °F)		
9.8	Upper/Lower Flammability Limits:	LEL 3.3, UEL 19.0		
9.9	Vapor Pressure:	ND		
9.10	Vapor Density:	NA NA		
9.11	Relative Density:	0.86		
9.12	Solubility:	Soluble in water		
9.13	Partition Coefficient (log Pow):	NA NA		
9.14	Autoignition Temperature:	NA NA		
9.15	Decomposition Temperature:	NA		
9.16	Viscosity:	NA NA		
9.17	Other Information:	NA NA		
10.1	7 Relatively stable under unifficit definitions when stelled property.			
10.3	Hazardous Polymerization:	Will not occur.		
10.4	Conditions to Avoid:	Exposure or contact to extreme temperatures, incompatible chemicals, strong light sources, sparks, flame.		
10.5	Incompatible Substances:	Strong oxidizers, peroxides, strong acids or alkalis.		
		Total Strate Str		
		11. TOXICOLOGICAL INFORMATION		
11.1	Routes of Entry:	Inhalation: YES Absorption: YES Ingestion: NO		
11.2	Toxicity Data:	This product has NOT been tested on animals to obtain toxicology data.		
11.3	Acute Toxicity:	See Section 4.4		
11.4	Chronic Toxicity:	See Section 4.5		
11.5	Suspected Carcinogen:	Ethanol: California Proposition 65 ((CA65) ethanol in alcoholic beverages)		
11.6	Reproductive Toxicity:	This product is not reported to produce reproductive toxicity in humans.		
	Mutagenicity:	This product is not reported to produce mutagenic effects in humans.		
	Embryotoxicity:	This product is not reported to produce embryotoxic effects in humans.		
	Teratogenicity:	This product is not reported to produce teratogenic effects in humans.		
	Reproductive Toxicity:	This product is not reported to produce reproductive effects in humans.		
11.7	Irritancy of Product:	See Section 4.2		
11.8	Biological Exposure Indices:	NE		
11.9	Physician Recommendations:	Treat symptomatically.		
		40 5001 001041 10500044 71001		
10.4	Environmental Otal: 115 ::	12. ECOLOGICAL INFORMATION		
12.1	Environmental Stability:	There are no specific data available for this product. The components of this product will slowly degrade over time into a variety of organic compounds. Specific environmental data available for the components of this product are as follows: Ethanol : In water, will volatilize and probably degrade.		
12.2	Effects on Plants & Animals:	There are no specific data available for this product.		
12.3	Effects on Aquatic Life:	There are no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life.		
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Other Requirements:

15.8

SAFETY DATA SHEET

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other reproductive harm. For more information go to www.P65Warnings.ca.gov

Japan - ENCS; Korea - KECI; New Zealand - NZIoC; {Philippines - PICCS; USA - TSCA

Substances List (WI). This product does not contain any chemicals known to the State of California to cause cancer or

This product is found on the following inventory lists: Australia - AICS, China - IECSC, Europe - ELINCS/EINEC,



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		16. OTHER INF	ORMATION	
16.1	Other Information:	WARNING! HIGHLY FLAMMABLE LIQUID AND VAPOR. CAUSES SERIOUS EYE IRRITATION. For external use only. Use only as directed. Discontinue use immediately if irritation develops. Keep away from sources of ignition, sparks, open flames, hot surfaces. No smoking. Avoid breathing vapors, mist or spray. Contaminated work clothing should not be allowed out of the workplace. IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. In case of fire use CO ₂ , Halon (if permitted), dry chemical, or foam for extinction. Keep container tightly closed when not in use. KEEP OUT OF REACH OF CHILDREN.		
16.2	Terms & Definitions:	See last page of this Safety Data Sheet.		
16.3	Disclaimer:	This Safety Data Sheet is offered pursuant to OSHA's Hazard Communication Standard, 29 CFR §1910.1200. Other government regulations must be reviewed for applicability to this product. To the best of ShipMate's & Goodwin's knowledge, the information contained herein is reliable and accurate as of this date; however, accuracy, suitability or completeness is not guaranteed and no warranties of any type, either expressed or implied, are provided. The information contained herein relates only to the specific product(s). If this product(s) is combined with other materials, all component properties must be considered. Data may be changed from time to time. Be sure to consult the latest edition.		
16.4	Prepared for:		relief C	
16.5	Prepared by:	ShipMate, Inc. P.O. Box 787 Sisters, Oregon 97759-0787 USA Tel: +1 (310) 370-3600 Fax: +1 (310) 370-5700 http://www.shipmate.com	ShipMate [®] Dangerous Goods Training & Consulting	



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DEFINITION OF TERMS

A large number of abbreviations and acronyms appear on a SDS. Some of these that are commonly used include the following:

GENERAL INFORMATION:

CAS No.	. Chemical Abstract Service Number	
RTECS No.	Registry of Toxic Effects of Chemical Substances Number	
EINECS No.	European Inventory of Existing Commercial Chemical Substances Number	

EXPOSURE LIMITS IN AIR:

ACGIH	GIH American Conference on Governmental Industrial Hygienists	
IDLH	Immediately Dangerous to Life and Health	
NOHSC	National Occupational Health and Safety Commission (Australia)	
OSHA	OSHA U.S. Occupational Safety and Health Administration	
PEL	PEL Permissible Exposure Limit	
STEL	Short Term Exposure Limit	
TLV Threshold Limit Value		
TWA	Time Weighted Average	

FIRST AID MEASURES:

CPR	Cardiopulmonary resuscitation - method in which a person whose heart has
	stopped receives manual chest compressions and breathing to circulate blood
	and provide oxygen to the body.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM: HMIS

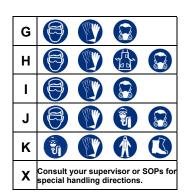
HEALTH, FLAMMABILITY & REACTIVITY RATINGS:

0	Minimal Hazard	
1	Slight Hazard	
2	Moderate Hazard	
3	Severe Hazard	
4	Extreme Hazard	



PERSONAL PROTECTION RATINGS:

Α			
В	(Eller)		
С	(EV)		
D	(Eller)	The state of the s	
Е	(Ell)		
F	(E)	HA.	





OTHER STANDARD ABBREVIATIONS:

Carc	Carcinogenic
Irrit	Irritant
NA	Not Available
NR	No Results
ND	Not Determined
NE	Not Established
NF	Not Found
SCBA	Self-Contained Breathing Apparatus
Sens	Sensitization
STOT RE	Specific Target Organ Toxicity – Repeat Exposure
STOT SE	Specific Target Organ Toxicity – Single Exposure

NATIONAL FIRE PROTECTION ASSOCIATION: NFPA

FLAMMABILITY LIMITS IN AIR:		
Autoignition Temperature	Minimum temperature required to initiate combustion in air with no other source of ignition	
LEL	Lower Explosive Limit - lowest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source	
UEL	Upper Explosive Limit - highest percent of vapor in air, by volume, that will explode or ignite in the presence of an ignition source	

HAZARD RATINGS:

0	Minimal Hazard	FLAMMABILITY
1	Slight Hazard	. =
2	Moderate Hazard	REACTIVITY
3	Severe Hazard	
4	Extreme Hazard	
ACD	Acidic	
ALK	Alkaline	
COR	Corrosive	
₩	Use No Water	HEALTH
ОХ	Oxidizer	SPECIAL
TREFOIL	Radioactive	PRECAUTIONS

TOXICOLOGICAL INFORMATION:

Lethal Dose (solids & liquids) which kills 50% of the exposed animals
Lethal concentration (gases) which kills 50% of the exposed animal
Concentration expressed in parts of material per million parts
Lowest dose to cause a symptom
Lowest concentration to cause a symptom
Lowest dose (or concentration) to cause lethal or toxic effects
International Agency for Research on Cancer
National Toxicology Program
Registry of Toxic Effects of Chemical Substances
Bioconcentration Factor
Median threshold limit
Coefficient of Oil/Water Distribution

REGULATORY INFORMATION:

Canadian Workplace Hazardous Material Information System					
U.S. Department of Transportation					
Transport Canada					
U.S. Environmental Protection Agency					
Canadian Domestic Substance List					
Canadian Non-Domestic Substance List					
Canadian Priority Substances List					
U.S. Toxic Substance Control Act					
European Union (European Union Directive 67/548/EEC)					
Wassergefährdungsklassen (German Water Hazard Class)					

WORKPLACE HAZARDOUS MATERIALS IDENTIFICATION (WHMIS) SYSTEM:

0	(A)	(2)		\odot	(49)		
Class A	Class B	Class C	Class D1	Class D2	Class D3	Class E	Class F
Compressed	Flammable	Oxidizing	Toxic	Irritation	Infectious	Corrosive	Reactive

CLP/GHS (1272/2008/EC) PICTOGRAMS:

	(%)		\Diamond			\Diamond		*
GHS01	GHS02	GHS03	GHS04	GHS05	GHS06	GHS07	GHS08	GHS09
Explosive	Flammable	Oxidizer	Pressurized	Corrosive	Toxic	Harmful Irritating	Health Hazard	Environment