



SAFETY DATA SHEET

SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION

Product Identifier:	Hand Sanitizer (Spray and Wipes)
Other Means of Identification:	Sanitizer, Antiseptic Skin Cleanser, Antibacterial Cleanser, Medicated Cleanser
Product Use and Restrictions on use:	Antiseptic (skin) cleanse, Medicated (skin) cleanser, Antibacterial (skin) cleanser, kills harmful bacteria/germs. For external use only. Avoid contact with eyes. Stop use if irritation develops and contact health care provider.
Supplier Identifier:	All Clean Natural Ltd. 5310 1 st Street SW Calgary, AB, T2H 0C8 (403) 652-3202
24-hour Emergency Phone:	CANUTEC (24HR EMERGENCY TELEPHONE) (613) 996-6666
TDG Emergency Response Plan:	ERP 2-2063
NWB Emergency Response Assistance Canada (ERAC):	1-800-265-0212

SECTION 02 - HAZARD IDENTIFICATION

Flammable Liquid	: Category 3
Specific Target Organ Toxicity Category Class	: Single Exposure (Category 3) : Class 3 H225
Eye Irritation Category	: 2A
Category	: Class 2 H315
Subcategory	: 2A H319



Single word

Hazard statements (GHS-CCOHS)

: Danger
: H225—Highly Flammable liquid and vapor
: H315 - Causes skin irritation
: H319 - Causes serious eye irritation and remove contact lenses
: H350 - May cause cancer (Ingestion)
: H361 - Suspected of damaging the unborn child (Ingestion)
: H370 - Causes damage to organs (central nervous system, optic nerve) (: Oral, Dermal)

Precautionary statements

: P201 - Obtain special instructions before use
: P202 - Do not handle until all safety precautions have been read and understood

Storage

: Store in a well-ventilated place
: P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
: P233 - Keep container tightly closed
: P240 - Ground/bond container and receiving equipment
: P241 - Use explosion-proof electrical, lighting, ventilating equipment
: P242 - Use only non-sparking tools
: P243 - Take precautionary measures against static discharge
: P260 - Do not breathe mist, spray, vapors
: P264 - Wash exposed skin thoroughly after handling
: P270 - Do not eat, drink or smoke when using this product
: P280 - Wear eye protection, face protection, protective clothing, protective gloves
: P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
: P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
: P308+P313 - IF exposed or concerned: Get medical advice/attention

: P332+P313 - If skin irritation occurs: Get medical advice/attention
 : P337+P313 - If eye irritation persists: Get medical advice/attention
 : P362+P364 - Take off contaminated clothing and wash it before reuse
 : P370+P378 - In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam to extinguish
 : P403+P235 - Store in a well-ventilated place. Keep cool
 : P405 - Store locked up
 : P501 - Dispose of contents/container to comply with local, state and federal regulations

SECTION 03 - COMPOSTITION/ INFORMATION ON INGREDIENTS

Mixture name	CAS-No	%	LD50s & LC50s Route & Species:
Ethanol	64-17-5	65.0-85.0	: Inhalation LC50 (Rat) 31,623 ppm / 4hrsOral LD50 (Rat) 7,060 mg/kg Dermal LD50 (Rabbit) 20,000 mg/kg
Glycerine 95%	56-81-5	1.3-2.0	: TWA-10mg/m3, TLV BASIS-URT irritation
Water		29.7-13.0	

Common Names and Synonyms: Sanitizer, Antiseptic Skin Cleanser, Antibacterial Cleanser, Medicated Cleanser

SECTION 04 - FIRST AID MEASURES

Eye Contact:

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keep eyes open. Cold water may be used. Seek medical attention if irritation persists.

Skin Contact:

In case of contact. Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation persists.

Inhalation:

If inhaled, remove to fresh air. Get medical attention at outset of symptoms.

Serious Inhalation:

Evacuate the victim to a safe location as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing perform CPR. Seek medical attention.

Ingestion:

Rinse mouth with water, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing.

Ingestion of Large Quantities:

Take individual immediately to hospital.

Note to Physician:

Severe poisoning occurs when the blood ethanol level is 0.3-0.5%. Above 0.5% the individual will be comatose and death can occur. The unabsorbed ethanol should be removed by gastric lavage after intubating the patient to prevent aspiration. Avoid the use of depressant drugs or the excessive administration of fluids. This product contains one ingredient of relatively low toxicity: Glycerine.

SECTION 05 - FIRE FIGHTING MEASURES

Suitable extinguishing media	: Use DRY chemicals. Alcohol-resistant foam. BC powder. Carbon dioxide, Water is generally unsuitable and may increase spreading the fire.
Unsuitable extinguishing media	: Solid water jet ineffective as extinguishing medium

Fire fighters should wear full protective clothing, including self-contained breathing equipment.

Specific hazards arising from the hazardous product (e.g., hazardous combustion products):

Fire hazard	: Direct Fire Hazard: Highly flammable. Gas/vapour flammable with air within explosion limits. : Indirect Fire Hazard: May be ignited by sparks. Gas/vapour spreads at floor level: ignition hazard. Reactions involving a fire hazard: see "Reactivity Hazard".
Explosion hazard	: Direct Explosion Hazard: Gas/vapour explosive with air within explosion limits. : Indirect Explosion Hazard: May be ignited by sparks. Reactions with explosion hazards: see "Reactivity Hazard".
Reactivity	: Upon combustion: CO and CO2 are formed. Reacts violently with many compounds e.g.: with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with (some) acids.

Special protective equipment and precautions for firefighters:

Firefighting instructions	: Cool tanks/drums with water spray/remove them into safety. Do not move the load if exposed to heat.
Protection during firefighting	: Heat/fire exposure: compressed air/oxygen
Special Exposure Hazards	Use water spray to cool fire-exposed containers and structures. Use water spray to disperse vapours; re-ignition is possible. Vapours from this product and may travel or be moved by air currents, and ignited by pilot lights, other flames, smoking, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from product handling point.
Hazardous Decomposition/Combustion Materials (under fire conditions)	Carbon monoxide. Carbon dioxide, and Formaldehyde.
Special Protective Equipment	Fire fighters should wear full protective clothing, including self-contained breathing equipment.

SECTION 06 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Protective equipment	: Wear appropriate protective equipment such as Gloves. Safety goggles. Cover all and protective clothing.
Small Spill	: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
Large spill	: Flammable liquid. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with dry earth, sand or other Non-combustible material. Prevent entry into sewers, basements or confined areas. Dike of needed. Be careful that the product is not present at a concentration level above TLV. Check TLV on the safety data sheet

Methods and materials for containment and cleaning up:

Emergency procedures	: Mark the danger area. Consider evacuation. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion-proof of appliances and lighting equipment. Keep containers closed.
For containment	: Plug the leak, cut off the supply. Dam up the liquid spill. Measure the concentration of the explosive gas-air mixture. Dilute/disperse combustible gas/vapour with a water curtain. Provide equipment/receptacles with earthing. Do not use compressed air for pumping overfills.

Cleaning procedure

: Take up liquid spill into a non-combustible material e.g.: sand, earth, powdered limestone. Scoop absorbed substance into closing containers. Carefully collect the spill/leftovers damaged/cooled tanks must be emptied. Do not use compressed air for pumping over spills. Clean contaminated surfaces with an excess of water. Take collected spill to manufacturer/competent authority. Wash clothing and equipment after handling.

SECTION 07 - HANDLING AND STORAGE

Precautions for safe handling

Do not ingest. Do not breathe gas/fumes/ vapor/ spray. Wear Personal Protective Equipment (PPE) Hand Protection: Nitrile or latex gloves have to be worn Eye Protection: Safety Goggles, full or half-face mask Skin and Body Protection: Lab coat or coverall Engineering Controls: Provide exhaust ventilation. Ensure that eyewash stations and safety showers are proximal to the workstation location. If ingested, seek medical advice immediately and show the container or label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, acids, alkalis and moisture. Do not discharge the waste into the drain

Conditions for safe storage (including incompatible materials):

Keep locked up. Ground all equipment containing material. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above 23°C (73.4°F)

Others

Good personal hygiene practices are suggested, such as abstaining from eating, drinking and smoking in the workplace

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters occupational exposure guidelines or biological exposure limits and the source of those values:

Exposure limits: Ethanol

TWA:1900 (mg/m³) from OSHA (PEL) [United States]
 TWA: 1000(ppm) from OSHA(PEL) [United States] TWA:
 1900(mg/m³) from NIOSH [United States] TWA:
 1000(ppm) from NIOSH TWA: 1000(ppm) from [United
 Kingdom (UK)] TWA:1920(mg/m³) from [United
 Kingdom (UK)] TWA:1000 STEL:1250(ppm) [Canada]
 Consult local authorities for acceptable exposure limits.
**WARNING: THE LC50 VALUES HEREUNDER ARE
 ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE.**
 Acute oral toxicity (LD50): 3450 mg/kg. Acute toxicity of
 the vapor (LC50): 39000 mg/m³.

Appropriate engineering controls

Engineering Controls:

Provide exhaust ventilation or other engineering controls to keep airborne concentrations of vapours below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the workstation location

Individual protection measures (e.g. personal protective equipment):

Personal Protective Equipment (PPE)

Wear Personal Protective Equipment (PPE) Hand Protection: Nitrile or latex gloves have to be worn Eye Protection: Safety Goggles, full or half-face mask Skin and Body Protection: Lab coat or overall



Exposure limits

Ingredients

Ethanol
 Glycerin
 Water

Exposure Limit - ACGIH

1000 ppm TLV-TWA
 TWA-10mg/m³
 -

Exposure Limit - OSHA

1000 ppm TWA
 unknown
 unknown

Immediately Dangerous to Life or Health - IDLH

3300 ppm
 TLV BASIS-URT irritation
 Oral LD50 (Rat) >90 mL/kg

SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties:

Appearance (physical state, colour, etc.)	: Opaque liquid/gel
Odour	: Typical lower alcohol odour, rather pleasant.
Odour threshold	: No data available
Boiling point	: No data available
pH	: 7.0-8.5
Melting point	: No data available
Freezing point	: No data available
Volatility	: No data available
Lower flammability limit	: No data available
Upper Flammability Limit	: No data available
Flashpoint	: No data available
Evaporation rate	: No data available
Vapour pressure	: No data available
Vapour density	: No data available
Density	: 0.833-0.888 @ 20C
Solubility	: Dissolved in water and alcohol
Partition coefficient - n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available

SECTION 10 – STABILITY AND REACTIVITY

Stability and reactivity:

Chemical stability	: Stable at normal conditions
Reactivity	: The product is stable but upon combustion: CO and CO ₂ are formed. Reacts violently with many compounds e.g.: with (strong) oxidizers: (increased) risk of fire/explosion. Violent to explosive reaction with (some) acids
Chemical stability	: Hygroscopic
Possibility of hazardous reactions	: Not established
Conditions to avoid (e.g., static discharge, shock, or vibration)	: Direct sunlight. Extremely high or low temperatures. Open flame.
Incompatible materials	: Strong acids. Strong bases
Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11 – TOXICOLOGICAL INFORMATION

Routes of exposure:

Routes of Entry	: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Inhalation	: May cause irritation of the respiratory tract and affect behaviour/central nervous system with symptoms similar to ingestion.
Ingestion	: May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, and alterations in gastric secretions. May affect behavior/central nervous system (central nervous system depression - amnesia, headache, muscular incoordination, excitation, mild euphoria, slurred speech, drowsiness, staggering gait, fatigue, changes in mood/personality, excessive talking, dizziness, ataxia, somnolence, coma/ narcosis, hallucinations, distorted perceptions, general anesthetic), peripheral nervous system (spastic paralysis) vision (diplopia). Moderately toxic and narcotic in high concentrations. May also affect metabolism, blood, liver, respiration (dyspnea), and endocrine system. May affect the respiratory tract, cardiovascular (cardiac arrhythmias, hypotension), and urinary system
Skin contact	: Causes skin irritation, Prolonged or repeated skin contact may cause dermatitis, an allergic reaction
Eye contact	: Causes eye irritation

Symptoms related to the physical, chemical and toxicological characteristics:

May cause gastrointestinal tract irritation with nausea, vomiting, diarrhea, and alterations in gastric secretions. May affect behaviour/central nervous system (central nervous system depression - amnesia, headache, muscular incoordination, excitation, mild euphoria, slurred speech, drowsiness, staggering gait, fatigue, changes in mood/personality, excessive talking, dizziness, ataxia, somnolence, coma/ narcosis, hallucinations, distorted perceptions, general anesthetic), peripheral nervous system (spastic paralysis) vision (diplopia). Moderately toxic and narcotic in high concentrations. May also affect metabolism, blood, liver, respiration (dyspnea), and endocrine system. May affect the respiratory tract, cardiovascular (cardiac arrhythmias, hypotension), and urinary system.

Delayed and immediate effects, and chronic effects from short-term and long-term exposure:

Carcinogenic Effects: A4 (Not classifiable for human or animal.) by ACGIH. Mutagenic Effects: Mutagenic for mammalian somatic cells. Mutagenic for bacteria and/or yeast. Teratogenic Effects: Classified PROVEN for humans. Developmental Toxicity: Classified Development toxin [PROVEN]. Classified Reproductive system/toxin/female, Reproductive system/toxin/male [POSSIBLE]. It causes damage to the following organs: blood, the reproductive system, liver, upper respiratory tract, skin, central nervous system (CNS).

Numerical measures of toxicity, including acute toxicity estimates (ATEs):

Acute oral toxicity Acute toxicity estimate: > 5,000 mg/kg

IARC	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
STOT-single exposure	The substance or mixture is not classified as specific target organ toxicant, single exposure

SECTION 12 – ECOLOGICAL INFORMATION

Ecological information:

Ingredients	Ecotoxicity- Fish Species Data	Toxicity to Aquatic Plants	Toxicity to Micro Organisms	Other Adverse Effects
Environmental Effects			Harmful to aquatic life.	
Ethanol	LC 50/96 Hour Oncorhynchus mykiss >10,000 mg/l	Growth inhibition/96 Hours Chlorella vulgaris 1000 mg/l	Pseudomonas Putida 6,500 mg/l Inhibition of cell growth	BOD 740-840 mg/g
Glycerin	TWA-10mg/m3	-	Biodegradation is expected	TLV BASIS-URT irritation
Water	Oral LD50 (Rat) >90 mL/kg	-	Bioaccumulation is unlikely	Oral LD50 (Rat) >90 mL/kg

SECTION 13 - DISPOSAL CONSIDERATIONS

Information on safe handling for disposal and methods of disposal, including any contaminated packaging:

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Remove to an authorized waste incinerator for solvents with energy recovery. Do not discharge into surface water. May be discharged to wastewater treatment installation.

SECTION 14 - TRANSPORTATION INFORMATION

TDG (Canada)

UN number	: UN1987
UN proper shipping name	: ALCOHOLS N.O.S. (ETHANOL Hand Sanitizer)
Transport hazard class(es)	: Primary Class -3
Packing group	: III

WHMIS Classification	: Class B Division 3 - Combustible Liquid Class D. Division 2 Subdivision A – Very toxic material causing other toxic effects
Environmental hazards	: Avoid release to the environment
Transport in bulk, if applicable	: 242 (49 CFR 173.xxxx)
IMDG	
UN number	: UN- 1987 Class: 3 Packing Group: II
EMS-No	: F-E, S-D
Proper shipping name	: Proper shipping name: ALCOHOLS, N.O.S. (ETHANOL)
Marine Pollutant:	: No
IATA	
UN-Number: Class	: 1987, 3 Packing Group: II
Proper shipping name	: ALCOHOLS, N.O.S. (ETHANOL)

SECTION 15 – REGULATORY INFORMATION

Safety, health and environmental regulations specific to the product:

Canada WHMIS Classification	: DSL, Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision A - Very toxic material causing other toxic effects
USA SARA Section 302/313 Hazard Classes	: TSCA Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation Listed on the United States TSCA (Toxic Substances Control Act) inventory SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SECTION 16 - OTHER INFORMATION



NFPA health hazard: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury
 NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions
 NFPA reactivity :0 - Material that in themselves are normally stable, even under fire conditions

Additional Information: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contain all the information required by the CPR. **Disclaimer:** NOTICE TO READER: All Clean Natural Ltd. expressly disclaims all express or implied warranties of merchantability and fitness for a particular purpose, with respect to the product or information provided herein, and shall under no circumstances be liable for incidental or consequential damages. Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from All Clean Natural Ltd.. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate, All Clean Natural Ltd. makes no representations as to its accuracy or sufficiency. Conditions of use are beyond All Clean Natural Ltd.'s control and therefore users are responsible to verify this data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product, or from the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein and does not relate to its use in combination with any other material or in any other process.

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