Clean + Hand Sanitizer SDS DATE: 03/27/2020

### **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: Clean + Hand Sanitizer PRODUCT CODES: HS002, HS032, HS128, HS560

CHEMICAL NAME: Mixture SYNONYMS: N/A CHEMICAL FAMILY: Alcohol

MANUFACTURER: Clean Plus, Inc.

DIVISION: N/A

ADDRESS: 138 East Main Street / PO Box 678 West Concord, MN 55985

EMERGENCY PHONE: 1-800-424-9300 - CHEMTREC

INTERNATIONAL: 1-703-527-3887 (collect calls accepted)

CHEMICAL FORMULA: Proprietary
RECOMMENDED USE: Hand Sanitizer
PREPARED BY: Technical Manager

SECTION 1 NOTES: None

### **SECTION 2: HAZARDS IDENTIFICATION**

Signal Words: Danger, Warning

Hazard Classifications: Flammable Liquids 2 - H225

Skin Irritation 2 - H315

Eye Irritation 2A - H319





**Hazard Statements** H225 - Highly flammable liquid and vapors.

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.

## **Precautionary statements**

**Prevention** P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood. P210 - Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.

P233 - Keep container tightly closed.

P235 - Keep cool.

P240 - Ground and/or bond container and receiving equipment.

P241 - Use explosion-proof - electrical, ventilating and/or lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P264 - Wash thoroughly after handling. P273 - Avoid release to the environment.

P280 - Wear protective gloves and eye/face protection. P281 - Use personal protective equipment as required.

Clean + Hand Sanitizer SDS DATE: 03/27/2020

Response P370+P378 - In case of fire: Use appropriate media Carbon Dioxide, "alcohol -type foam," or dry chemical for

extinction.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water. P362 - Take off contaminated clothing and wash before reuse. P332+P313 - If skin irritation occurs: Get medical advice/attention.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.
P321 - Specific treatment, see supplemental first aid information.
P308+P313 - IF exposed or concerned: Get medical advice/attention.

Storage/Disposal P405 - Store locked up.

P403+P235 - Store in a well-ventilated place. Keep cool.

P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international

regulations.

Risk Phrases R11 - Highly flammable.

Safety Phrases S7 - Keep container tightly closed

S16 - Keep away from sources of ignition - No Smoking.

Other Hazards According to the Globally Harmonized System for Classification and Labeling (GHS) this product is considered

hazardous.

#### **EMERGENCY OVERVIEW:**

Physical State: Liquid.

Hazards: Highly Flammable liquid/vapor (Ethanol Flash Point = 55 °F). Potentially explosive vapor. High vapor pressure (VP = 45

mm Hg) and heavier than air (VD = 1.6). Use an alcohol resistant foam to suppress fires.

May cause irritation to the eyes, skin and respiratory system. May affect the central nervous system. May be harmful or

fatal if swallowed. May be harmful if inhaled or absorbed through the skin.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation

Color/Odor: Colorless liquid. Alcohol like odor. Odor threshold reported to be between 50 and 1,000 ppm.

#### **POTENTIAL HEALTH EFFECTS**

### **Symptoms of Acute Exposure**

**EYES:** May cause severe eye irritation, redness, tearing, blurred vision and conjunctivitis.

**SKIN:** Prolonged or repeated contact may cause irritation, dermatitis, defatting, redness, itching and inflammation. Injection

through the skin may cause swelling and be extremely painful.

INGESTION: Toxic if swallowed. Ingestion can cause drunkenness, depression, nausea, vomiting, diarrhea, liver damage and death.

Aspiration into the lungs can cause severe chemical pneumonitis or pulmonary edema or hemorrhage which may be

fatal. May cause harmful CNS effects similar to those listed under "Inhalation"

INHALATION: May cause upper respiratory irritation. Exposures over 1,000 ppm may cause central nervous system (CNS) effects

such as excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, loss of appetite, and an inability to concentrate. At higher concentrations there may be a loss of reflexes, convulsions, seizures, loss of consciousness,

coma, respiratory arrest and death.

### **CHRONIC HEALTH HAZARDS:**

Long term exposure to Hand Sanitizer may cause loss of appetite, weight loss, nervousness, memory loss and liver damage. May also cause dermatitis, malnutrition, amnesia, dementia, cardiac myopathy, hepatotoxicity, GI bleeding, pancreatitis, and death.

### **MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Pre-existing disorders of the CNS, liver, respiratory system, skin, eyes and GI tract may be aggravated by exposure.

SECTION 2 NOTES: NONE

Clean + Hand Sanitizer SDS DATE: 03/27/2020

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS** 

CHEMICAL CLASSIFICATION: Mixture

INGREDIENT: CAS NO. % OSHA PEL: ACGIH TLV:

 Ethanol
 64-17-5
 82.2

 Water
 7732-18-5
 15.1

 Glycerol
 56-81-5
 1.4

 Spearmint Oil
 8008-79-5
 1.1

 Hydrogen Peroxide
 7722-84-1
 0.1

**SECTION 3 NOTES:** 

#### **SECTION 4: FIRST AID MEASURES**

Eye: Flush eyes with large amounts of clean water for at least 15 minutes. Flush under upper and lower eyelids. If

pain or irritation persists, seek medical attention.

Skin: Flush affected area with clean water and soap if available. Remove contaminated clothing. If symptoms or

irritation persists, seek medical attention.

**Inhalation:** Move victim to fresh air. For respiratory distress, provide oxygen or administer CPR if necessary. Seek

medical attention if victim is unconscious or if discomfort persists.

**Ingestion:** DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY PHYSICIAN. If victim is conscious, provide

water to dilute. Do not give anything by mouth if victim is unconscious or having convulsions. CALL PHYSICIAN OR

POISON CONTROL CENTER IMMEDIATELY.

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: None

SECTION 4 NOTES: None

### **SECTION 5: FIRE-FIGHTING MEASURES**

NFPA HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0 OTHER: None

HMIS HAZARD CLASSIFICATION

HEALTH: 1 FLAMMABILITY: 3 REACTIVITY: 0 PROTECTION: None

**EXTINGUISHING MEDIA:** Use dry chemical, carbon dioxide, water spray (fog) or an alcohol resistant foam. Consult foam

manufacturer for appropriate application rates and ratios. Water and water spray may only cool, but

not extinguish the fire.

**CONDITIONS TO AVOID:** Extremely flammable liquid and vapor. Vapors form flammable or explosive mixtures at

room temperature. Avoid open flames, sparks and static discharges. Vapor may travel back a considerable distance to a source of ignition and flash back. Vapors may accumulate in low or confined areas. Runoff to sewers may create a fire or explosion hazard. Alcohols burn with a pale blue flame which may be hard to see under normal lighting conditions. Persons may only be able to feel the heat of the flame without seeing the flame. Ethanol is miscible in water and water alone may not put out an ethanol fire.

FIRE FIGHTING INSTRUCTIONS: Firefighters should wear approved self-contained breathing apparatus (SCBA) and

firefighter personal gear. If possible, limit the amount of fuel available to the fire. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. Apply a alcohol resistant foam. Containers may explode in heat or fire. Cool containers by flooding with water until fire is completely extinguished. Keep personnel away from tanks engulfed in flames. Runoff to sewers may create a fire or explosion hazard. If possible, collect or contain fire water and keep out of sewer systems or bodies or water. Clothing, rags or similar organic material contaminated with Hand Sanitizer and stored in a closed space may undergo spontaneous combustion. Transfer to and from commonly bonded and

grounded containers.

SECTION 5 NOTES: None

Clean + Hand Sanitizer SDS DATE: 03/27/2020

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **RELEASE RESPONSE**

SMALL SPILLS: Eliminate all sources of ignition. Small spills may be flushed and diluted with large amounts of water, or

absorbed with an inert dry material, and place in an appropriate waste disposal container. Use spark-proof tools and explosion proof equipment. Dispose of collected waste via a licensed waste disposal firm in an appropriate manner. Transfer to and from commonly bonded and grounded containers. Do not touch or walk through spilled

material.

**LARGE SPILLS:** Eliminate all sources of ignition. Isolate area and keep unnecessary personnel away. Do not touch or walk

through spilled material. Stop leak if without risk. Contact emergency personnel. Use water spray and/or alcohol resistant foam to reduce vapor generation. Contain spill and, if possible, prevent groundwater or surface water exposure and runoff. Use SCBA and suitable personal protective equipment for emergency response. Prevent entry to confined spaces unless SCBA and air monitoring can be performed and proper permit procedures can

be followed. For highway or railway spills, contact CHEMTREC at 800-424-9300.

## **ADDITIONAL ENVIRONMENTAL CONSIDERATIONS:**

Depending on size and nature of release, local, state and federal authorities may need to be notified. Contact the National Response Center at 800-424-8802 if the release contaminates either the ground or surface waters. Contact local responders/ fire officials/water treatment plants if release gets into public sewer/treatment

systems.

SECTION 6 NOTES: None

### **SECTION 7: HANDLING AND STORAGE**

**HANDLING:** Open and handle containers with care. Assure adequate ventilation. Keep away from heat, sparks and flames.

Metal containers should be grounded and bonded. Use explosion proof electrical equipment for ventilation, lighting and material handling. Do not pressurize, cut, weld, braze, solder, drill on or near storage containers. Assure empty containers are free of vapor. Assure filters are dry prior to disposal. Do not siphon by mouth to

transfer product between containers. Never smoke while handling containers or product.

**STORAGE**: Protect containers against physical damage. Detached or outside storage is preferred. Inside storage should be

in an NFPA approved flammable liquids storage room or cabinet. All ignition sources should be eliminated. Ground all drums and transfer vessels when handling. Ground all storage cabinets. Assure adequate ventilation in storage areas. Follow NFPA 30, Flammable and Combustible Liquids Code, for all storage and handling.

Consult with local fire codes for additional storage information. For External Use Only

OTHER PRECAUTIONS: Keep out of reach of children. Keep container tightly sealed when not in use.

SECTION 7 NOTES: None

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Limits** 

MaterialOSHA Exposure LimitsEthanol1,000 ppmTWA

TWA = 8 Hour Time Weighted Average STEL = 15 Minute Short Term Exposure Limit

### **Engineering Controls**

Engineering controls should be used whenever feasible to maintain concentrations below acceptable exposure limits including but not limited to enclosures, local ventilation and dilution ventilation. When transferring contents, the metallic container must be grounded and bonded to the receiving container to prevent static discharges. Ensure emergency use eyewash/shower stations are available and are maintained for immediate use. Use air monitoring equipment prior to confined space entry or emergency response. Use hot work permit when performing welding, cutting or other hot work in areas where product is stored, transferred or used. Use confined space entry permit prior to entry into a process or storage tank or container that previously contained the product.

Clean + Hand Sanitizer SDS DATE: 03/27/2020

### Personal Protective Equipment

OSHA requires a Personal Protective Equipment program for the eyes and face to comply with 29 CFR 1910.133.

Eyes: Safety glasses should be used for minimum eye protection. Use chemical goggles or a faceshield when transferring Hand

Sanitizer or when a high risk or exposure may exist. Eye and face protection should comply with the most recent version of ANSI Z87.1. OSHA requires a Personal Protective Equipment program for the eyes and face to comply with 29 CFR

1910.133.

Skin: As a minimum, wear cotton long sleeve shirts and pants or flame resistant/retardant clothing. Additional protective clothing

(neoprene or nitrile) and boots may be needed when there is a higher risk of exposure

Hands: Chemical resistant gloves (rubber, neoprene or nitrile) should be worn at all times when handling Hand Sanitizer. Replace

gloves that are torn, cut or worn. OSHA requires a Personal Protective Equipment program for the hands to comply with

29 CFR 1910.138.

Respiratory: An approved properly fitted air-purifying or air-supplied respirator should be used if exposure may exceed the OSHA

exposure limits provided in SECTION 2 of this SDS. Respiratory protection should comply with the most recent version of ANSI Z88.2. OSHA requires a Personal Protective Equipment program for the hands to comply with 29 CFR 1910.134.

### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Formula: Ethanol: C2H6O Appearance: Colorless liquid. Odor: Alcohol like odor.

Odor Threshold: Reported to be between 50 and 1,000 ppm.

**Boiling Point**: Ethanol: 172 °F **Freezing Point**: Ethanol: - 173 °F

**Specific Gravity**: Ethanol: 0.79 (Water = 1.0)

**pH**: Range = 7.4 to 7.8

Vapor Pressure: 45 mm Hg @ 68 °F = 0.87 PSI @ 68 °F

 Viscosity:
 1.2 cP @ @ 68 °F

 Vapor Density:
 1.6 (Air = 1.0)

 Evaporate Rate:
 1.7 (Butyl acetate = 1.0)

Volatility: 100% Partition Coefficient: Not Known

**Solubility**: Ethanol is soluble in water.

Flammability Classification: OSHA/NFPA Class 1B Flammable Liquid.

Flash Point: Ethanol: 55 °F Auto-Ignition Temperature: Ethanol: 685 °F

Flammable Limits (by volume):

Ethanol Lower: 3.3 %

Ethanol Upper: 19 %

Hazardous Combustion Products: Combustion products include carbon monoxide and carbon dioxide.

SECTION 9 NOTES: None

### **SECTION 10: STABILITY AND REACTIVITY**

Stability: The product is stable. Under normal conditions, hazardous polymerization will not occur. The product does not

react with air or water.

Conditions to Avoid: Avoid contact with all possible sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind or

exposure containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Materials to Avoid: Avoid contact with strong acids, alkalis and oxidizers such as chlorine, acetyl chloride and other oxidizers which

may cause a violent reaction. The presence of oxygen above 20.9 percent will cause increased fire hazards.

**Decomposition:** Not expected to decompose under normal conditions. Burning or heating will produce carbon monoxide and

carbon dioxide, and to a lesser extent nitrogen and sulfur oxides (NOx, SOx).

SECTION 10 NOTES: None

Clean + Hand Sanitizer SDS DATE: 03/27/2020

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

Eye Effects: Hand Sanitizer vapor can produce eye tearing and a burning sensation. Liquid exposure causes pain, irritation, tearing

and a burning sensation.

Skin Effects: Short-term exposure to Hand Sanitizer should not cause irritation or other skin effects. Prolonged or repeated exposure to

Hand Sanitizer may cause skin irritation and dermatitis by de-fatting the skin. Hand Sanitizer may be absorbed through

the skin

Inhalation Effects: May cause upper respiratory irritation. Exposures to ethanol over 1,000 ppm may cause central nervous system (CNS)

effects such as excitation, euphoria, headache, dizziness, drowsiness, blurred vision, fatigue, loss of appetite, and an inability to concentrate. At higher concentrations there may be a loss of reflexes, convulsions, seizures, loss of

consciousness, coma, respiratory arrest and death.

Ethanol: Inhalation LC-50, Rat (10 hour) = 20,000 PPM

Ingestion Effects: Toxic by ingestion. Ethanol is rapidly absorbed through the gastrointestinal tract and is normally metabolized and excreted

in a few hours. Can be fatal or cause blindness if swallowed in extreme quantities. Ingestion can cause headache, nausea, dizziness or narcosis. Chronic over-exposure can cause damage to the gastrointestinal tract, CNS, liver, kidneys

and cardiovascular system.

Ethanol: Oral LD-50, Rat = 7,060 mg/kg

Carcinogenicity: The International Agency for Research on Cancer (IARC) determined that alcoholic beverages are carcinogenic to

humans and the occurrence of malignant tumors in the oral cavity, pharynx, larynx, esophagus and liver is causally related to the consumption of alcohol. The American Conference of Governmental Hygienists lists ethanol as not classifiable as a human carcinogen (Category A4). Animal studies do not provide indications of carcinogenicity.

IARC – Ethanol, not listed NTP – Ethanol, not listed OSHA – Ethanol, not listed

### Reproductive & Developmental Effects:

May cause defects in the CNS, heart, kidney, lungs, gastrointestinal tract and limbs.

SECTION 11 NOTES: None

## **SECTION 12: ECOLOGICAL INFORMATION**

**Environmental Fate:** When spilled on land, Hand Sanitizer will volatilize, biodegrade and/or leach into the ground. It is anticipated

that ethanol will neither absorb into soil nor bio-concentrate in aquatic organisms. When spilled into surface waters, ethanol is miscible with water. May be toxic to species such as the daphnia magna (water flea) and others depending on concentration. In water, photolysis, oxidation, hydrolysis, and biodegradation are expected

to occur

**Bioaccumulation**: Bioaccumulation is not expected to occur.

SECTION 12 NOTES: None

## **SECTION 13: DISPOSAL CONSIDERATIONS**

The generation of waste should be avoided or minimized. Reclaim or reuse whenever possible. All recovered material should be labeled, packaged, transported and disposed of or reclaimed in conformance with applicable state and federal laws and regulations. Dispose of products via a licensed waste disposal contractor. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Consult your local, state or federal authorities.

SECTION 13 NOTES: None

Clean + Hand Sanitizer SDS DATE: 03/27/2020

### SECTION 14: TRANSPORT INFORMATION

Regulatory Proper Packing Additional Information **UN Number** Shipping Name Class Group Label Information DOT Ethanol, or

Classification 1170 Ethyl Alcohol П DOT Guide 127 3

**TDG** Ethanol, or

Ethyl Alcohol

**SECTION 14 NOTES:** None

1170

### **SECTION 15: REGULATORY INFORMATION**

## Federal, State and Local Regulatory Information

This product is on the EPA TSCA Inventory. Any spill or uncontrolled release of this product, including any substantial threat of release, may be subject to federal, state and/or local reporting requirements. This product and/or its constituents may also be subject to other federal, state. or local regulations; consult those regulations applicable to your facility/operation.

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DOT Guide 127

#### SARA Section 311/312 - Hazard Categories:

- ☐ Immediate (acute) Health Hazard
- ☐ Delayed (chronic) Health Hazard
- ☐ Fire Hazard

Classification

### **Other Regulatory Information**

California Proposition 65 requires manufacturers or distributors of consumer products into the State of California to provide a warning statement if the product contains ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm. Denatured Ethanol contains the following ingredients that are listed by the State of California to cause cancer or reproductive harm:

☐ Ethyl Alcohol, causes developmental toxicity (when in alcoholic beverages)

**SECTION 15 NOTES:** None

## **SECTION 16: OTHER INFORMATION**

OTHER INFORMATION: None

PREPARATION INFORMATION: Prepared 03/27/2020

**DISCLAIMER:** Some of the information presented is from sources other than direct test data on the product itself. The

> information is this SDS was obtained from sources, which are believed to be reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. The conditions or methods of handling, storage, use and disposal of the product are beyond the control and knowledge of the manufacturer. For this and other reasons, the manufacturer assumes no responsibility and expressly disclaims liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for the product listed above. If the product is used as a

component in another product, this SDS may not be applicable.

### **END OF SDS**