

SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	SP881201	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	SANI-SHIELD	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Hand Sanitizer and Topical Antiseptic	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: Flammable Liquids: Category 2	SIGNAL WORD: DANGER	SYMBOL:	
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HAZARD STATEMENTS:

Highly flammable liquid and vapor.

PRECAUTIONARY STATEMENTS:

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves/eye protection/face protection.

Response: Skin: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Fire: In case of fire: Use CO₂, dry chemical or foam to extinguish.

Storage: Store in a well-ventilated place. Keep cool.

Disposal: Dispose of contents/container to an approved waste disposal plant.

ADDITIONAL INFORMATION:

Toxic to aquatic life.

Unknown acute toxicity:

81.45% of the mixture consists of ingredient(s) of unknown toxicity

0% of the mixture consists of ingredient(s) of unknown acute oral toxicity

81.45% of the mixture consists of ingredient(s) of unknown acute dermal toxicity

81.45% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

81.45% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

1.45% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

3. Composition / Information on

Ingredients

Chemical Name	CAS	Concentration % by Weight	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Ethanol	64-17-5	80	-	-
Glycerin	56-81-5	1.45	-	-

Substance: Not applicable.

4. First Aid Measures

EMERGENCY OVERVIEW:

EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.

SKIN: In the case of skin irritation or allergic reactions see a physician.

INHALATION:

Remove to fresh air. Get medical attention immediately if symptoms occur.

INGESTION:

Clean mouth with water and drink afterwards plenty of water. Get medical attention immediately if symptoms occur.

SELF-PROTECTION OF THE FIRST AIDER:

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

No information available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Note to Physicians: Treat symptomatically.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Do not scatter spilled material with high pressure water streams.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Carbon oxides.

SPECIFIC FIRE-FIGHTING METHODS:

Large Fires: CAUTION: Use of water spray when fighting fire may be inefficient.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

EXPLOSION DATA:

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: Yes.

6. Accidental Release Measures**PERSONAL PRECAUTIONS:**

Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Ventilate the area.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

Methods for Containment: Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Methods for Cleaning Up: Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. Handling and Storage**SAFE HANDLING:**

Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

SAFE STORAGE & INCOMPATIBILITIES:

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

8. Exposure Controls / Personal Protection

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m ³
Glycerin 56-81-5	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	

Chemical Name	Alberta	British Columbia	Ontario TWAEV	Quebec
Ethanol 64-17-5	TWA: 1000 ppm TWA: 1880 mg/m ³	STEL: 1000 ppm	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1880 mg/m ³
Glycerin 56-81-5	TWA: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 3 mg/m ³		TWA: 10 mg/m ³

OTHER EXPOSURE GUIDELINES:

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: Tight sealing safety goggles.

Skin/Body Protection: Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.

Hand Protection: Wear suitable gloves. Impervious gloves.

Respiratory Protection: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

APPROPRIATE ENGINEERING CONTROLS:

Showers. Eyewash stations. Ventilation systems.

9. Physical & Chemical Properties

Appearance:	Colorless.	Flammability(solid/gas):	No data available.
Physical State:	Liquid.	Flammability Limit-lower (%):	No data available.
Color:	No information available.	Flammability Limit-upper (%):	No data available.
Odor:	Alcohol.	Explosive Properties:	No information available.
Odor Threshold:	No data available.	Vapor Density:	No data available.
pH:	7	Vapor Pressure:	No data available.

Melting/Freezing Point:	No data available.	Relative Density:	0.861
Boiling Point/Range:	No data available.	Solubility (water):	Soluble in water.
Kinematic Viscosity:	No data available.	Solubility(ies):	No data available.
Dynamic Viscosity:	No data available.	Auto-Ignition Temp:	No data available.
Flash Point:	20°C/68°F	Decomposition Temp:	No data available.
Oxidizing Properties:	No information available.	Partition Coeff(n-octanol/water):	No data available.
Evaporation Rate:	No data available.	Softening Point:	No information available.
Molecular Weight:	No information available.	VOC Content (%):	No information available.
Liquid Density:	No information available.	Particle Size:	No information available.
Bulk Density:	No information available.	Particle Size Distribution:	No information available.

10. Stability & Reactivity Information

REACTIVITY:

No information available.

CHEMICAL STABILITY:

Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

None under normal processing.

HAZARDOUS POLYMERIZATION:

Hazardous polymerization does not occur.

CONDITIONS TO AVOID:

Heat, flames and sparks.

INCOMPATIBLE MATERIALS:

None known based on information supplied.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon oxides.

11. Toxicological Information

PRIMARY ROUTE OF ENTRY:

Eyes: Specific test data for the substance or mixture is not available.

Skin: Specific test data for the substance or mixture is not available.

Inhalation: Specific test data for the substance or mixture is not available.

Ingestion: Specific test data for the substance or mixture is not available.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

No information available.

ACUTE TOXICITY:

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 8,736.30 mg/kg

ATEmix (inhalation-dust/mist) 155.90 mg/L

UNKNOWN ACUTE TOXICITY:

81.45% of the mixture consists of ingredient(s) of unknown toxicity

0% of the mixture consists of ingredient(s) of unknown acute oral toxicity

81.45% of the mixture consists of ingredient(s) of unknown acute dermal toxicity

81.45% of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

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Components	Species	Test Results
Ethanol		
Acute		
<i>Dermal</i>		
LD50	Rat	7060 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 570 mg/m3 (Rat) 1 h
<i>Oral</i>		
LD50	Rat	
Glycerin		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 10 g/kg (Rabbit)
<i>Inhalation</i>		
LC50	Rat	> 570 mg/m3 (Rat) 1 h
<i>Oral</i>		
LD50	Rat	12600 mg/kg

SKIN CORROSION/IRRITATION:

No information available.

SERIOUS EYE DAMAGE/EYE IRRITATION:

No information available.

RESPIRATORY SENSITIZATION:

No information available.

SKIN SENSITIZATION:

No information available.

GERM CELL MUTAGENICITY:

No information available.

CARCINOGENICITY:

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethanol 64-17-5	A3	Group 1	Known.	X

Legend:**ACGIH (American Conference of Governmental Industrial Hygienists):** A3 - Animal Carcinogen.**IARC (International Agency for Research on Cancer):** Group 1 - Carcinogenic to Humans.**NTP (National Toxicology Program):** Known - Known Carcinogen.**OSHA (Occupational Safety and Health Administration of the US Department of Labor):** X – Present.**REPRODUCTIVE TOXICITY:**

No information available.

SPECIFIC TARGET ORGAN TOXICITY -single exposure:

No information available.

SPECIFIC TARGET ORGAN TOXICITY -repeated exposure:

No information available.

ASPIRATION HAZARD:

No information available.

12. Ecological Information**ECOTOXICITY:** Toxic to aquatic life.

Components	Species	Test Results
Ethanol		
Aquatic		
Crustacea	EC50	Daphnia magna 24h EC50: = 10800 mg/L 48h EC50: = 2 mg/L 48h LC50: 9268 - 14221 mg/L
Fish	LC50	Oncorhynchus mykiss 96h LC50: 12.0 - 16.0 mL/L Pimephales promelas 96h LC50: 13400 - 15100 mg/L Pimephales promelas 96h LC50: > 100 mg/L
Microorganisms		EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min
Glycerin		
Aquatic		
Crustacea	EC50	Daphnia magna) 24h EC50: > 500 mg/L
Fish	LC50	Oncorhynchus mykiss 96h LC50: 51 - 57 mL/L

PERSISTENCE AND DEGRADABILITY:

No information available.

BIOACCUMULATIVE POTENTIAL:**Component Information:**

Chemical Name	Log Pow
Ethanol	-0.32
Glycerin	-1.76

MOBILITY IN SOIL:

No information available.

OTHER ADVERSE EFFECTS:

No information available.

13. Disposal Consideration**HAZARDOUS WASTE CODE:****US EPA Waste Number:** D001**California Waste Codes:** 311

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Ethanol 64-17-5	Toxic, Ignitable.

WASTE FROM RESIDUES/UNUSED PRODUCTS:

Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

CONTAMINATED PACKAGING:

Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

14. Transportation Information

DOT: UN Number: UN1170
UN Proper Shipping Name: Ethanol
Transport Hazard Class(es):
Class: 3
Packing Group: II
Description: UN1170, Ethanol, 3, II
Emergency Response Guide Number: 127

TDG: UN Number: UN1170
UN Proper Shipping Name: Ethanol Solution
Transport Hazard Class(es):
Class: 3
Packing Group: II
Description: UN1170, Ethanol, 3, II

MEX: UN Number: UN1170
UN Proper Shipping Name: Ethanol In Solution
Transport Hazard Class(es):
Class: 3
Packing Group: II
Description: UN1170, Ethanol in Solution, 3, II

ICAO: UN Number: UN1170
UN Proper Shipping Name: Ethanol
Transport Hazard Class(es):
Class: 3
Packing Group: II
Description: UN1170, Ethanol, 3, II

IATA: UN Number: UN1170
UN Proper Shipping Name: Ethanol
Transport Hazard Class(es):
Class: 3
Packing Group: II
ERG Code: 3L
Description: UN1170, Ethanol, 3, II

IMDG/IMO: UN Number: UN1170
UN Proper Shipping Name: Ethanol Solution
Transport Hazard Class(es):
Class: 3
Packing Group: II
Description: UN1170, Ethanol Solution, 3, II, (20°C C.C.)

RID: UN Number: UN1170
UN Proper Shipping Name: Ethanol Solution
Transport Hazard Class(es):
Class: 3
Packing Group: II
Classification Code: F1
Description: UN1170, Ethanol Solution, 3, II
ADR/RID-Labels: 3

ADR: UN Number: UN1170
UN Proper Shipping Name: Ethanol Solution
Transport Hazard Class(es):
Class: 3
Packing Group: II
Classification Code: F1
Tunnel Restriction Code: (D/E)
Description: 1170, Ethanol Solution, 3, II (D/E)

ADN: UN Number: UN1170
UN Proper Shipping Name: Ethanol Solution
Transport Hazard Class(es):
Class: 3
Packing Group: II
Classification Code: F1
Special Provisions: 144, 601
Description: 1170, Ethanol Solution, 3, II
Hazard Labels: 3
Limited Quantity: 1 L
Ventilation: VE01

15. Regulatory Information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE:

INTERNATIONAL REGULATIONS:

The Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable.

The Stockholm Convention on Persistent Organic Pollutants: Not applicable.

The Rotterdam Convention: Not applicable.

INTERNATIONAL INVENTORIES:

TSCA: Contact supplier for inventory compliance status.

DSL/NDSL: Contact supplier for inventory compliance status.

EINECS/ELINCS: Contact supplier for inventory compliance status.

ENCS: Contact supplier for inventory compliance status.

KECL: Contact supplier for inventory compliance status.

PICCS: Contact supplier for inventory compliance status.

AICS: Contact supplier for inventory compliance status.

LEGEND:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

ENCS - Japan Existing and New Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US FEDERAL REGULATIONS:

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories: Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

CWA (Clean Water Act): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA: This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material

US STATE REGULATIONS:

California Proposition 65

This product contains the following Proposition 65 chemicals. Ethyl alcohol is only considered a Proposition 65 developmental hazard when ingested as an alcoholic beverage.

Chemical Name	California Proposition 65
Ethanol 64-17-5	Carcinogen, Developmental

U.S. STATE RIGHT-TO-KNOW REGULATIONS: This product may contain substances regulated by state right-to-know regulations.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethanol 64-17-5	X	X	X	X	X
Glycerin 56-81-5	X	X	X	X	X

16. Other Information

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.