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Soap Solution, Tincture

## SAFETY DATA SHEET

Section 1: Identification	
<b>Product Name:</b>	SOAP SOLUTION
<b>Synonyms:</b>	Tincture of Green Soap
<b>Recommended Use:</b>	Laboratory chemical
<b>Restrictions on Use:</b>	Do not ingest or allow to come in contact with skin or eyes
<b>Company Identification:</b>	FULLER ENGINEERING INC: 975 E. Orangefair Lane, Anaheim, Ca 92801
<b>Non-emergency Assistance:</b>	714-502-0700
<b>Emergency 24 Hour Assistance:</b>	ChemTel 1-800-255-3924 (Contract Number MIS8057228)

Section 2: Hazard(s) Identification	
<b>Hazard Classification:</b>	Flammable Liquids Category 2
<b>Signal Word:</b>	Danger
<b>Hazard Statement(s):</b>	Flammable liquid and vapor. May form explosive mixtures with air.
<b>Pictograms:</b>	
<b>Precautionary statement(s):</b>	Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Use and store only outdoors or in a well ventilated place. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Store in a well-ventilated place. Keep cool. Dispose of contents and container in accordance with all local, regional, national, and international regulations.

Section 3: Composition/Information on Ingredients		
Chemical Name	CAS No.	Weight %
Ethanol	64-17-5	30
Vegetable fatty acids, potassium salts	61788-66-7	50-70

Section 4: First-Aid Measures	
<b>Emergency and First Aid Procedures:</b>	No known significant effects or critical hazards. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
<b>If in eyes:</b>	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
<b>If on skin or clothing:</b>	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>If inhaled:</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>If swallowed:</b>	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Section 5: Fire-Fighting Measures	
<b>Flash Point:</b>	Closed cup: 9.7°C (49.5°F)
<b>Flammability:</b>	Highly flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.
<b>Products of combustion:</b>	carbon dioxide and carbon monoxide
<b>Extinguishing Media:</b>	Water-spray(fog), dry chemical, foam, or CO <sub>2</sub> . Tailor extinguishing media to surrounding fire. Do not use water jet.
<b>Protective equipment and</b>	Isolate the scene by removing persons from the vicinity of the incident if there is a fire. No action shall be taken involving

<b>precautions for firefighters:</b>	any personal risk or without suitable training. Move containers from area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
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<b>Section 6: Accidental Release Measures</b>	
<b>Personal precautions:</b>	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
<b>Environmental Precautions:</b>	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
<b>Containment and cleanup:</b>	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Approach large release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 13 for waste disposal.

<b>Section 7: Handling and Storage</b>	
<b>Safe handling:</b>	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
<b>Safe storage:</b>	Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

<b>Section 8: Exposure Controls/Personal Protection</b>	
<b>Exposure limits:</b>	TWA: 1000 ppm 8 hours. TWA: 1900 mg/m <sup>3</sup> 8 hours. ACGIH (American Conference of Governmental Industrial Hygienists) TLV (Short Term): STEL:1000 ppm 15 minutes.
<b>Engineering controls:</b>	Use with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep exposure to airborne contaminants below any recommended or statutory limits. Engineering controls also need to keep gas, vapor or dust concentrations below lower explosive limits. Use explosion-proof ventilation equipment.
<b>Personal protective equipment:</b>	Chemical resistant gloves, protective clothing, safety glasses, a properly fitted air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates necessity. Respirator selection must be based on known or anticipated exposure levels, hazards of the product and safe working limits of the respirator.

<b>Section 9: Physical and Chemical Properties</b>			
<b>Appearance:</b>	Clear, colorless liquid	<b>Solubility:</b>	1000 g/l in water
<b>Decomposition temperature:</b>	Not available	<b>pH:</b>	unknown
<b>Odor:</b>	Weak, ethereal, vinous odor	<b>Flash point:</b>	Closed cup:9.7°C(49.5°F)
<b>Vapor density:</b>	1.6 (Air = 1)	<b>Evaporation rate:</b>	1.7 (butyl acetate = 1)
<b>Odor threshold:</b>	unknown	<b>Flammability (solid, gas):</b>	Not available
<b>Melting point/freezing point:</b>	-114°C (-173.2°F)	<b>Relative density (SG):</b>	0.8
<b>Partition coefficient: n-octanol/water:</b>	-0.35	<b>Auto-ignition temperature:</b>	455°C (851°F)
<b>Viscosity:</b>	Dynamic(room temperature):0.544 to 0.59 mPa·s (0.544 to 0.59 cP)	<b>Boiling point:</b>	78.29°C (172.9°F)
<b>Vapor pressure[room temperature]:</b>	5.7 kPa (42.948650611 mm Hg)	<b>Upper/lower flammability limits:</b>	Lower: 3.3%. Upper: 19%

<b>Section 10: Stability and Reactivity</b>	
<b>Stability:</b>	Stable under recommended storage conditions.
<b>Conditions to avoid:</b>	All possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. Avoid oxidizing materials and alkalis.
<b>Hazardous decomposition products:</b>	None.
<b>Hazardous polymerizations:</b>	Hazardous polymerization will not occur.

<b>Section 11: Toxicological Information</b>	
<b>Routes of exposure:</b>	Not available.
<b>Acute Toxicity:</b>	Not available.
<b>Effects from short- and long-term exposure:</b>	No known significant effects or critical hazards.

<b>Carcinogenicity:</b>	This product does not contain a component that has been reported to be possibly carcinogenic based on its IARC, ACGIH, NTP, or EPA classification.
<b>Mutagenicity:</b>	No known significant effects or critical hazards.

Section 12: Ecological Information	
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<b>Aquatic toxicity, Persistence and degradability or Mobility in soil:</b>	No data available.
<b>Bioaccumulation potential(ethanol):</b>	LogPow: -0.35. Potential: low

Section 13: Disposal Considerations	
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The generation of waste should be avoided or minimized wherever possible. Material and contaminated packaging should be disposed of in accordance with all local, state, and federal regulations(regulations vary by region). Avoid release into soil, sewers, drains, and waterways.

Section 14: Transport Information	
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<b>DOT:</b>	Ethanol or Ethyl Alcohol or Ethanol Solutions or Ethyl Alcohol Solutions, 3, UN1170, PG II. Limited Quantity.
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Other Information:	
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<b>SDS revision date:</b>	5/19/2016
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