



# Material Safety Data Sheet

Revision Date 14-Aug-2012

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Label Name** Sunlight Ultra Liquid Dish Detergent - Lemon 950mL  
**Product name** SNLT CAN 12/950ML LDL LEMON  
**UPC Code** 10885967206279  
**Recommended Use** Dish detergent liquid for hand washing dishes.

**Supplier Address**  
Sun Products Corporate Office  
60 Danbury Road  
Wilton, CT 06897  
USA

**Chemical Emergency Phone Number** Chemtrec 1-800-424-9300 (24 hour)  
Poison Control 1-800-222-1222 (24 hour)

**Company Emergency Phone Number** Prosar: 1-800-565-5597 (24 hours)

**General Questions:** Sunlight - 1-800-298-5021 (Monday – Friday, 8:30AM to 6:00PM EST)

## 2. HAZARDS IDENTIFICATION

### ATTENTION

#### Emergency Overview

Irritating to eyes  
Harmful if swallowed  
Keep out of the reach of children  
May cause central nervous system depression

#### Potential Health Effects

See Section 11 for additional Toxicological information.

**Ingestion** Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Do not taste or swallow.

**Eyes** Irritating to eyes. Corrosive to the eyes and may cause severe damage including blindness. Risk of serious damage to eyes.

**Skin** Irritating to skin.

**Inhalation** Harmful by inhalation. May cause irritation of respiratory tract. May be harmful if inhaled.

<b>Chronic Effects</b>	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Avoid repeated exposure. Possible risks of irreversible effects. May cause adverse liver effects. Contains a known or suspected reproductive toxin.
<b>Aggravated Medical Conditions</b>	Central nervous system. Preexisting eye disorders. Blood disorders. Liver disorders. Overexposure may cause female and male reproductive disorder(s). Skin disorders. Respiratory disorders. Reproductive toxicity.
<b>Environmental hazard</b>	See Section 12 for additional Ecological Information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients as defined by the OSHA Hazard Communication Standard (29CFR § 1910.1200).

Chemical Name	CAS-No	Weight %
BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS	68081-81-2	10-30
Ethyl alcohol	64-17-5	1 - 5 %

Under normal consumer household use, this product would not constitute a hazardous product by OSHA definition as OSHA is not applicable to household consumer use.

### 4. FIRST AID MEASURES

<b>General advice</b>	Immediate medical attention is required. If symptoms persist, call a physician.
<b>Eye contact</b>	Immediate medical attention is required. 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. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
<b>Skin contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Immediate medical attention is not required. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. Call a physician or Poison Control Center immediately. Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Ingestion</b>	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Clean mouth with water and drink afterwards plenty of water. Consult a physician. Remove from exposure, lie down. Call a physician or Poison Control Center immediately.
<b>Notes to physician</b>	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.
<b>Protection of First-aiders</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

### 5. FIRE-FIGHTING MEASURES

<b>Flammable Properties</b>	Combustible liquid.			
<b>Flash point</b>	> 201 °F / > 94 °C			
<b>Flammability Limits in Air</b>				
<b>Upper Flammability Limit</b>	No information available			
<b>Lower Flammability Limit</b>	No information available			
<b>Autoignition temperature</b>	No information available			
<b>Hazardous Combustion Products</b>	None.			
<b>Explosive properties</b>	No information available			
<b>Explosion Limits</b>				
<b>Upper (UEL)</b>	No information available			
<b>Lower (LEL)</b>	No information available			
<b>Sensitivity to Static Discharge</b>	Yes.			
<b>Suitable Extinguishing Media</b>	Use: Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol-resistant foam.			
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.			
<b>Specific hazards arising from the chemical</b>	The product causes burns of eyes, skin and mucous membranes. Keep product and empty container away from heat and sources of ignition. Risk of ignition. Thermal decomposition can lead to release of irritating gases and vapors. In the event of fire and/or explosion do not breathe fumes.			
<b>Protective Equipment and Precautions for Firefighters</b>	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<b>NFPA</b>	<b>Health Hazard</b> 3	<b>Flammability</b> 1	<b>Stability</b> 0	<b>Physical and chemical hazards</b> -
<b>HMIS</b>	<b>Health Hazard</b> 3	<b>Flammability</b> 1	<b>Physical Hazard</b> 0	<b>Personal protection</b> -

## 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b>	Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.
<b>Environmental precautions</b>	Do not allow material to contaminate ground water system. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	Take up mechanically and collect in suitable container for disposal. Clean contaminated surface thoroughly. Dam up. Use personal protective equipment. Cover liquid spill with sand, earth or other noncombustible absorbent material. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges. After cleaning, flush away traces with water.
<b>Other information</b>	Refer to protective measures listed in Sections 7 and 8.

## 7. HANDLING AND STORAGE

**Advice on safe handling** Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Do not breathe vapors or spray mist. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation at machinery.

**Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers. Keep containers tightly closed in a dry, cool and well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup> (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m <sup>3</sup>	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m <sup>3</sup>
T-butyl alcohol 75-65-0	TWA: 100 ppm	TWA: 100 ppm TWA: 300 mg/m <sup>3</sup> (vacated) TWA: 100 ppm (vacated) TWA: 300 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 450 mg/m <sup>3</sup>	IDLH: 1600 ppm TWA: 100 ppm TWA: 300 mg/m <sup>3</sup> STEL: 150 ppm STEL: 450 mg/m <sup>3</sup>

NIOSH IDLH: *Immediately Dangerous to Life or Health*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

**Engineering Measures** None under normal use conditions

**Personal Protective Equipment**

**Eye/Face Protection** Tightly fitting safety goggles Face-shield  
**Skin and body protection** No protective equipment is needed under normal use conditions.  
**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** Remove and wash contaminated clothing before re-use. When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. For environmental protection, remove and wash all contaminated protective equipment before re-use. Wear suitable gloves and eye/face protection.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	liquid	<b>Appearance</b>	CLEAR LIQUID
<b>Color</b>	No data available	<b>Odor</b>	Odor
<b>Odor Threshold</b>	No information available	<b>pH</b>	6.500 pH.
<b>Specific Gravity</b>	1.069 SPECIFIC GRAVITY - 20C	<b>Density</b>	no data available
<b>Viscosity, kinematic Method</b>	500 cps viscosity No information available	<b>Flash point</b>	> 201 °F / > 94 °C
		<b>Autoignition temperature</b>	No information available

<b>Decomposition temperature</b>	no data available	<b>Boiling point/boiling range</b>	no data available
<b>Melting point</b>	no data available	<b>Freezing Point</b>	no data available
<b>Water solubility</b>	Soluble in water	<b>Evaporation rate</b>	no data available
<b>Vapor pressure</b>	no data available	<b>Vapor density</b>	No data available
<b>VOC Content(%)</b>	2.95		
<b>Flammability Limits in Air</b>		<b>Explosion Limits</b>	
<b>Upper Flammability Limit</b>	no data available	<b>Upper (UEL)</b>	no data available
<b>Lower Flammability Limit</b>	no data available	<b>Lower (LEL)</b>	no data available

## 10. STABILITY AND REACTIVITY

<b>Stability</b>	Stable under recommended storage conditions.
<b>Incompatible products</b>	Incompatible with strong acids and bases. Incompatible with oxidizing agents.
<b>Conditions to Avoid</b>	Exposure to air or moisture over prolonged periods. Heat, flames and sparks.
<b>Hazardous Decomposition Products</b>	Thermal decomposition can lead to release of irritating gases and vapors.
<b>Hazardous Reactions</b>	None known based on information supplied.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. Do not taste or swallow.
<b>Eye contact</b>	Irritating to eyes. Avoid contact with eyes. Corrosive to the eyes and may cause severe damage including blindness.
<b>Skin contact</b>	May cause irritation. Prolonged contact may cause redness and irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract.
<b>Product Safety Profile</b>	Product is safe for its intended use based on the formulation, testing results, and the long history of safe consumer use.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
BENZENESULFONIC ACID, C10-16-ALKYL DERIVATIVES, SODIUM SALTS	1000 mg/kg ( Rat )	730 mg/kg ( Rabbit )	
Ethyl alcohol	7060 mg/kg ( Rat )		124.7 mg/L ( Rat ) 4 h

### Chronic toxicity

<b>Chronic toxicity</b>	Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Ethanol has been shown to be a reproductive toxin only when consumed as an alcoholic beverage. Ethanol has been shown to be carcinogenic in long-term studies only when consumed as alcoholic beverage. Avoid repeated exposure. Possible risks of irreversible effects. May cause adverse liver effects. Contains a known or suspected reproductive toxin.
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<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen
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Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl alcohol	A3	Group 1	Known	X

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP: (National Toxicity Program)**

Known - Known Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

<b>Sensitization</b>	None known.
<b>Germ Cell Mutagenicity</b>	None known.
<b>Reproductive toxicity</b>	This product does not contain any known or suspected reproductive hazards
<b>Developmental Toxicity</b>	None known
<b>Target Organ Effects</b>	Blood, Central nervous system, Eyes, Liver, Reproductive system, Respiratory system, Skin
<b>Interactions with Other Chemicals</b>	Use of alcoholic beverages may enhance toxic effects

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic organisms

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Ethyl alcohol		12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	EC50 = 34634 mg/L 30 min EC50 = 35470 mg/L 5 min	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static

**Persistence and degradability** No data is available on the product itself.

**Bioaccumulation** Not likely to bioaccumulate.

**Mobility** Not Determined .

Chemical Name	log Pow
Ethyl alcohol	-0.32

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements

**Contaminated packaging** Do not re-use empty containers

**California Hazardous Waste Codes 561**

**California Waste Status**

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

Chemical Name	California Hazardous Waste Status
Ethyl alcohol	Toxic Ignitable

**14. TRANSPORT INFORMATION**

<b>DOT</b>	Not regulated
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>IATA</b>	Not regulated
<b>IMDG</b>	Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

<b>TSCA</b>	-
<b>DSL</b>	Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**U.S. 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**

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	no

**Clean Water Act**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

