

M A T E R I A L   S A F E T Y   D A T A   S H E E T

**Sunlight Dishwashing Liquid**

Date Prepared 2001-02-05

**PRODUCT INFORMATION**

**Product Trade Name** Sunlight Dishwashing Liquid  
**Product Use** Liquid hand dishwashing detergent  
**Supplier Name** Unilever Canada, division of U L Canada Inc.  
**Address** 160 Bloor Street East, Toronto, Ont. M4W 3R2  
**Emergency Phone Nos.** (416) 462-2200 (Business Hours) (416) 778-2349 (After Hours)  
 (613) 996-6666 CANUTEC (Transportation)

This information is presented under right-to-know regulations, in the context of use in the workplace, and is not intended for domestic use.

**HAZARDOUS INGREDIENTS**

Ingredient	CAS No.	Range (%w/w)	LD <sub>50</sub> Oral mg/kg	LD <sub>50</sub> Dermal g/kg	LC <sub>50</sub> Inhl mg/m <sup>3</sup> /4h
Sodium C <sub>10-13</sub> alkyl aryl sulphonate	68411-30-3	10-30	1,260 (rat)	Not available	Not available
Sodium C <sub>12-13</sub> alkyl ether sulphate	68891-38-3	5-10	1,600 (rat)	Not available	Not available
Ethanol	64-17-5	1-5	7,060 (rat)	20 (rabbit)	59,451 (rat)
Lauric monoethanolamide	142-78-9	1-5	Not available	Not available	Not available
Sodium xylene sulphonate	1300-72-7	1-5	1,000	Not available	Not available

**PHYSICAL DATA**

<b>Physical State</b>	Liquid	<b>Specific Gravity</b>	1.05 (20 deg. C)
<b>Vapour Pressure</b>	Not available	<b>Coeff. Water/Oil Dist.</b>	Water miscible
<b>Vapour Density</b>	Not available	<b>Evaporation Rate</b>	Not available
<b>Boiling Point</b>	Not available	<b>Freezing Point</b>	Not available
<b>pH</b>	6.8-7.1 (25 deg. C)	<b>Odour Threshold</b>	Not available
<b>Appearance</b>	Clear, yellow liquid	<b>Odour</b>	Fragrant (Lemon)

**FIRE OR EXPLOSION HAZARD**

**Conditions of Flammability** Not readily combustible. Confined vapours may flash at, or above, the flash point but will not sustain combustion.

**Means of Extinction** Use water fog, dry chemical, carbon dioxide, or "alcohol" foam.

**Flash Point (deg. C) and Method** 58 (TCC). No Fire Point was detected for a similar product.

**Auto Ignition Temp.** Not available

**Flammable Limits** Not available

**Hazardous Combustion Products** Fire may produce oxides of carbon, sulphur and nitrogen.

**Sensitivity to Static Discharge** Not available

**Sensitivity to Impact** Not applicable

<b>TOXICOLOGICAL PROPERTIES</b>	
<b>Routes of Entry</b>	Eye and skin contact.
<b>Effects of Acute Exposure</b>	Eye contact will cause irritation resulting in pain and possible corneal ulceration and opacities. Skin irritation may occur from prolonged or repeated contact. Inhalation under heat conditions may cause irritation to the nose, throat and respiratory tract. Ingestion, although not an expected route of workplace exposure, may produce irritation of mucosal surfaces and, if ingested in sufficient amount, spontaneous vomiting may occur. Possesses a low order of systemic toxicity and human symptoms, if any, resulting from ingestion are expected to be temporary.
<b>Oral LD<sub>50</sub></b>	4,800 mg/kg (rat) based on data for a similar product.
<b>Dermal LD<sub>50</sub></b>	20,000 mg/kg (rabbit) based on ingredient data (ethanol).
<b>Inhl LC<sub>50</sub></b>	59,451 mg/m <sup>3</sup> /4h (rat) based on ingredient data (ethanol).
<b>Effects of Chronic Exposure</b>	Prolonged or repeated skin contact with ingredients in this product has shown to cause dermatitis.
<b>Exposure Limit(s)</b>	1,900 mg/m <sup>3</sup> (ACGIH TLV-TWA; ethanol).
<b>Irritancy of Product</b>	See <b>Effects of Acute Exposure</b> .
<b>Sensitization to Product</b>	Tests on a products of similar composition did not produce any evidence of sensitization.
<b>Carcinogenicity</b>	Product does not contain any ingredients, at a concentration of 0.1% or greater, determined to be carcinogenic by the American Conference of Governmental Industrial Hygienists (ACGIH) or the International Agency for Research on Cancer (IARC).
<b>Reproductive Toxicity</b>	Contains ethanol which has been shown to cause adverse reproductive effects when administered orally to mice in laboratory studies.
<b>Mutagenicity</b>	No available evidence.
<b>Toxicologically Synergistic Products</b>	No known or available information.

**FIRST AID MEASURES**

<b>Inhalation</b>	Remove victim from contaminated area to fresh air.
<b>Eyes</b>	Immediately remove any contact lenses (if removal is easy to do so), force eyelids open, and gently rinse the eyes continuously with cool or lukewarm water for at least fifteen minutes.
<b>Skin</b>	Remove any contaminated clothing and rinse or wash exposed skin with water.
<b>Ingestion</b>	If conscious, give sips of water or milk and maintain an upright position in case of delayed vomiting.
<b>Comments</b>	If signs of exposure or symptoms persist, contact a physician, poison control centre or other medical personnel.

**REACTIVITY DATA**

<b>Conditions of Instability</b>	None expected during normal handling.
<b>Incompatible Substances</b>	Strong acids and oxidizing agents.
<b>Conditions of Reactivity</b>	No known or available information.
<b>Hazardous Decomposition Products</b>	None expected during normal handling.

**PREVENTIVE MEASURES**

<b>Personal Protective Equipment</b>	Select personal protective equipment appropriate to handling and exposure conditions. Safety glasses with side shields and impermeable or chemical resistant (PVC, rubber) gloves are recommended to avoid eye and skin contact. Use an appropriate NIOSH/MSHA/ CSA respirator if engineering and other controls are inadequate to meet exposure limits such as under extreme heat conditions. Eye wash fountains and safety showers are recommended in storage and handling areas.
<b>Engineering Controls</b>	General ventilation is expected to be adequate to control indoor fugitive emissions. Use local exhaust ventilation if exposure limits may be exceeded.

**PREVENTIVE MEASURES (Continued)**

<b>Spill or Leak Procedures</b>	Eliminate all ignition sources. Use appropriate Personal Protective Equipment. Absorb and/or contain spill with inert materia (e.g., sand, vermiculite), then place in a suitable container for disposal. For large spills, use water spray to dilute spill.  Immediate reporting of spill incidents may be required under federal, provincial and/or municipal laws.
<b>Waste Disposal</b>	Waste product is classifiable as Liquid Industrial Waste. Registration and manifests are generally required by law prior to transportation and disposal.
<b>Handling Procedures</b>	Avoid generating airborne mists. Wear protective equipment, as applicable, to avoid eye and skin contact, especially during prolonged or frequent handling.
<b>Storage Requirements</b>	Store in closed containers, away from incompatible materials, potential ignition sources and extreme temperatures.
<b>Special Shipping Information</b>	Bulk TDGR Shipping Description: Ethanol Solution, Class 3, UN 1170, Packing Group III. Exemptions may apply for Consumer Commodity shipments or if contained in packagings (marked "Alcohol Exempt").

**ADDITIONAL INFORMATION****WHMIS Classification**

D-2B

**PREPARATION INFORMATION****Prepared by:** Development Dept.**Phone:** (416) 462-2200**Date:** 2001-02-05

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