



Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product name SSL EMULSIFYING DETERGENT
Product use Laundry Detergent.
Product code Q054
Date of issue 10/10/12 **Supersedes** 12/17/09

Emergency Telephone Numbers

For MSDS Information:

Technical Services Group
Telephone (780) 453-8100
(Business Hours 8:00am - 5:00pm)

For Medical or Transportation Emergency

CANUTEC (24 Hours)
(613) 996-6666 - Call Collect

Prepared By

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Section 2. Hazards Identification

Emergency overview

WARNING !

COMBUSTIBLE.

Harmful if swallowed. Keep away from heat, sparks and flame. Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation.

NOTE: MSDS data pertains to the product as delivered in the original shipping container(s). Risk of adverse effects are lessened by following all prescribed safety precautions, including the use of proper personal protective equipment.

Acute Effects

Routes of Entry

Eye contact. Dermal contact.

Eyes

May cause eye irritation. Inflammation of the eye is characterized by redness, watering and itching.

Skin

May cause skin irritation. Sensitizer. Skin inflammation is characterized by itching, scaling, or reddening. May cause allergic reactions in certain individuals.

Inhalation

No known significant effects or critical hazards.

Ingestion

Harmful if swallowed.

Chronic effects

Contains material which may cause damage to the following organs: blood, kidneys, liver. Repeated or prolonged exposure to the substance can produce target organs damage.

Additional Information: See Toxicological Information (Section 11)

Section 3. Composition/Information on Ingredients

Name of Hazardous Ingredients

CAS number

% by Weight

Alcohols (C12-15, Ln. saturated) ethoxylate	68131-39-5	10 - 30
DIPROPYLENE GLYCOL METHYL ETHER; dipropylene glycol monomethyl ether	34590-94-8	5 - 10
HEXYLENE GLYCOL; 2-methyl-2,4-pentanediol; 2,4-dihydroxy-2-methylpentane; 1,2-hexanediol	107-41-5	3 - 7
DODECYL BENZENE SULFONIC ACID; alkyl aryl sulfonic acid	27176-87-0	1 - 5
D-LIMONENE; orange distillate; citrus terpene; cyclohexene, 1-methyl-4-(1-methylethenyl)-, (R)-	5989-27-5	1 - 5
DIETHANOLAMINE; 2,2'-iminodiethanol; bis(2-hydroxyethyl)amine; dea	111-42-2	1 - 5
Fluorescent Brightener 351	27344-41-8	0.1 - 1

Section 4. First Aid Measures

Eye Contact

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.

Skin Contact

Flush affected skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention.

Ingestion If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Never give anything by mouth to an unconscious person. 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.

Section 5. Fire Fighting Measures

Flash Point Closed cup: 60°C (140°F)
[Tagliabue.]

Flammable Limits Not determined.

Flammability Combustible liquid.

Auto-ignition Temperature

Fire-Fighting Procedures Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Use dry chemical, CO₂, water spray (fog) or foam.

Fire hazard In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Products of Combustion carbon oxides (CO, CO₂) and other unidentified organic compounds

Explosion hazard Not available.

Section 6. Accidental Release Measures

Spill Clean up Put on appropriate personal protective equipment (see section 8). Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Section 7. Handling and Storage

Handling Put on appropriate personal protective equipment (see section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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. Empty containers retain product residue and can be hazardous. Wash thoroughly after handling.

Storage 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. Store between the following temperatures: 40°F - 120°F (4.4°C - 49°C). Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Do not store in unlabeled containers. Keep out of the reach of children.

Section 8. Exposure Controls/Personal Protection

Product name

(2-methoxymethylethoxy)propanol

Exposure limits

CA Alberta Provincial (Canada, 4/2009). Absorbed through skin.

8 hrs OEL: 100 ppm 8 hour(s).

15 min OEL: 909 mg/m³ 15 minute(s).

8 hrs OEL: 606 mg/m³ 8 hour(s).

15 min OEL: 150 ppm 15 minute(s).

CA British Columbia Provincial (Canada, 9/2010). Absorbed through skin.

TWA: 100 ppm 8 hour(s).

STEL: 150 ppm 15 minute(s).

CA Quebec Provincial (Canada, 6/2008). Absorbed through skin.

TWAEV: 100 ppm 8 hour(s).

TWAEV: 606 mg/m³ 8 hour(s).

STEV: 150 ppm 15 minute(s).

STEV: 909 mg/m³ 15 minute(s).

CA Ontario Provincial (Canada, 7/2010). Absorbed through skin.

STEL: 909 mg/m³ 15 minute(s).

STEL: 150 ppm 15 minute(s).

TWA: 606 mg/m³ 8 hour(s).

TWA: 100 ppm 8 hour(s).

2-methylpentane-2,4-diol

CA Alberta Provincial (Canada, 4/2009). Skin sensitizer.

C: 121 mg/m³

C: 25 ppm

CA British Columbia Provincial (Canada, 9/2010).

C: 25 ppm

CA Ontario Provincial (Canada, 7/2010).

C: 25 ppm

C: 121 mg/m³

CA Quebec Provincial (Canada, 6/2008).

STEV: 25 ppm 15 minute(s).

STEV: 121 mg/m³ 15 minute(s).

dodecylbenzenesulphonic acid

ACGIH / OSHA (United States).

TWA: 1 mg/m³ 8 hour(s).

ACGIH TLV (United States).

2,2'-iminodiethanol

STEL: 3 mg/m³ 15 minute(s).**CA Ontario Provincial (Canada, 7/2010). Absorbed through skin.**TWA: 1 mg/m³ 8 hour(s). Form: Inhalable fraction and vapor**CA Alberta Provincial (Canada, 4/2009). Absorbed through skin.**8 hrs OEL: 2 mg/m³ 8 hour(s).**CA British Columbia Provincial (Canada, 9/2010). Absorbed through skin.**TWA: 2 mg/m³ 8 hour(s).**CA Quebec Provincial (Canada, 6/2008). Absorbed through skin.**

TWA EV: 3 ppm 8 hour(s).

TWA EV: 13 mg/m³ 8 hour(s).**Personal Protective Equipment (PPE)****Eyes**

Recommended: Safety glasses.

**Hands and Body**

Recommended: For prolonged or repeated handling, use the following type of gloves: Neoprene Nitrile Rubber

Respiratory

Recommended: Use with adequate ventilation. A respirator is not needed under normal and intended conditions of product use.

Section 9. Physical and Chemical Properties**Physical State**

Viscous liquid.

Color Colorless to light yellow.**pH**

8.0 - 9.0

Odor Citrus**Boiling Point**

104.44°C (220°F)

Vapor Pressure Not determined.**Specific Gravity**

1.01

Vapor Density Not determined.**Solubility**

Easily soluble in the following materials: cold water and hot water.

Evaporation Rate 1 (Water = 1)**Freezing Point****VOC (Consumer)** 101 (g/l). 10% w/w**Section 10. Stability and Reactivity****Stability and Reactivity**

The product is stable.

Incompatibility

Avoid contact with strong oxidizers, excessive heat, sparks or open flame.

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information**Carcinogenicity** No known significant effects or critical hazards.**Acute Toxicity****Product/ingredient name****Result****Species****Dose****Exposure**

Alcohols, C12-15, ethoxylated

LD50 Oral

Rat

2 g/kg

2-methylpentane-2,4-diol

LD50 Dermal

Rabbit

12000 mg/kg

LD50 Oral

Rat

3700 mg/kg

LD50 Oral

Rat

3700 mg/kg

(2-methoxymethylethoxy)propanol

LD50 Dermal

Rabbit

13000 mg/kg

LD50 Oral

Rat

5220 mg/kg

dodecylbenzenesulphonic acid

LC50 Inhalation Vapor

Mouse

320 mg/m³

LC50 Inhalation Vapor

Rat

510 mg/m³

LD50 Oral

Rat

650 mg/kg

LD50 Oral

Rat

2140 mg/kg

(R)-p-mentha-1,8-diene

LD50 Dermal

Rabbit

>5000 mg/kg

LD50 Dermal

Rabbit

>5000 mg/kg

LD50 Oral

Rat

4400 mg/kg

LD50 Oral

Rat

>5000 mg/kg

2,2'-iminodiethanol

LD50 Dermal

Rabbit

3000 mg/kg

LD50 Oral

Rat

1410 mg/kg

disodium 2,2'-([1,1'-biphenyl]-4,4'-diyldivinylene)bis(benzenesulphonate)

LC50 Inhalation Vapor

Rat

3660 mg/m³

LD50 Dermal

Rabbit

2500 mg/kg

LD50 Oral

Rat

5580 mg/kg

Section 12. Ecological Information**Environmental Effects**

No known significant effects or critical hazards.

Aquatic Ecotoxicity

Product code Q054	Material Safety Data Sheet		Product Name SSL EMULSIFYING DETERGENT	
Alcohols, C12-15, ethoxylated	-	Acute EC50 0.7 mg/L Fresh water	Algae - Green algae - Pseudokirchneriella subcapitata	96 hours
	-	Acute EC50 0.39 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute EC50 302 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	48 hours
	-	Acute LC50 1030 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 1.1 g	96 hours
	-	Chronic NOEC 83 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Neonate - <24 hours	21 days
2-methylpentane-2,4-diol	-	Acute EC50 2800000 ug/L Fresh water	Crustaceans - Water flea - Ceriodaphnia reticulata - Larvae - <24 hours	48 hours
	-	Acute EC50 3200000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - Larvae - <24 hours	48 hours
	-	Acute LC50 8000000 ug/L Marine water	Fish - Bleak - Alburnus alburnus - 8 cm	96 hours
(R)-p-mentha-1,8-diene	-	Acute EC50 421 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute EC50 688 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 34 days - 19.1 mm - 0.085 g	96 hours
2,2'-iminodiethanol	-	Acute EC50 103000 ug/L Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	-	Acute LC50 28800 ug/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate	48 hours
	-	Acute LC50 2150 ug/L Fresh water	Daphnia - Water flea - Daphnia pulex	48 hours
	-	Acute LC50 100000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) - 0.2 to 0.5 g	96 hours
disodium 2,2'-([1,1'-biphenyl]-4,4'- diyldivinylene)bis(benzenesulphonate)	-	Acute EC50 40.33 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute LC50 126000 ug/L Fresh water	Fish - Channel catfish - Ictalurus punctatus	96 hours

Section 13. Disposal Considerations

Waste Information

Waste must be disposed of in accordance with applicable regulations. Consult your local or regional authorities for additional information.

Waste Stream

Section 14. Transport Information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
TDG Classification	Not regulated.	-	-	-		Remarks Not regulated under the Transportation of Dangerous Goods Act when transported by road or rail in packagings or containers of 450 L or less.
IMDG Class						-

NOTE: DOT classification applies to most package sizes. For specific container size classifications or for size exceptions, refer to the Bill of Lading with your shipment. **Limited Quantity:** Small quantities of controlled goods are not regulated as Dangerous Goods according to TDG regulations.

PG* : Packing group

Section 15. Regulatory Information**Canada****WHMIS (Canada)**

Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F).

Class D-1B: Material causing immediate and serious toxic effects (Toxic).

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Section 16. Other Information

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever 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 hazards that exist.