

Material Safety Data Sheet

LIQUID DISH SOAP

1. Product and company identification

Product name	LIQUID DISH SOAP	In case of emergency	1-800-843-6174
Code	308FS	Validation date	7/7/2009.
Material uses	Hand dish wash liquid	Print date	7/14/2009.
Manufacturer	Essential Industries, Inc. P.O. Box 12 Merton, WI 53056-0012 Phone: 262-538-1122	Responsible name	Regulatory Affairs Department

Hazardous Material Information System (U.S.A.)

Health	* 0	HAZARD RATING
Flammability	0	4 = Extreme
Physical hazards	0	3 = High
Personal protection	A	2 = Moderate
		1 = Slight
		0 = Insignificant

A = Goggles B = Goggles & Gloves C = Goggles, Gloves & Apron

2. Hazards identification

Emergency overview	CAUTION! MAY BE HARMFUL IF SWALLOWED. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA. May be harmful if swallowed. Do not ingest. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Contains material that may cause target organ damage, based on animal data. Wash thoroughly after handling.
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Potential acute health effects due to overexposure

Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Ingestion	Harmful if swallowed.
Skin	No known significant effects or critical hazards.
Eyes	No known significant effects or critical hazards.

Potential chronic health effects due to overexposure

Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental effects	No known significant effects or critical hazards.
Fertility effects	No known significant effects or critical hazards.

See toxicological information (section 8)

3. Composition/information on ingredients

Name	CAS number	%
dodecylbenzenesulphonic acid	27176-87-0	5 - 10
2,2',2''-nitrilotriethanol	102-71-6	1 - 5

4. First aid measures

Eye contact	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	None normally required.
Inhalation	None normally required.
Ingestion	Wash out mouth with water. Get medical attention immediately.
Protection of first-aiders	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.
Notes to physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5. Fire-fighting measures

Flammability of the product	In a fire or if heated, a pressure increase will occur and the container may burst.
Extinguishing media	
Suitable	Use an extinguishing agent suitable for the surrounding fire.
Special exposure hazards	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides metal oxide/oxides
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Control and preventive measures

Storage	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. 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.
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Ingredient	Exposure limits
2,2',2''-nitritotriethanol	ACGIH TLV (United States, 1/2008). TWA: 5 mg/m ³ 8 hour(s).

Personal protection

Respiratory	None required. However, use of adequate ventilation is good industrial practice.
Hands	None normally required.
Skin	None normally required.
Eyes	None normally required.

Methods for cleaning up

Small spill	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. Dispose of via a licensed waste disposal contractor.
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Waste disposal	Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
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7. Physical and chemical properties

Physical state	Liquid	Boiling/condensation point	100°C (212°F)
Color	Blue/Green	Melting/freezing point	0°C (32°F)
Odor	Varied	Vapor pressure	<4 kPa (<30 mm Hg)
VOC	0.0%	Vapor density	<1 [Air = 1]
pH	8 to 8.5	Weight per Gallon:	8.65 lbs/gal
1% pH:	7.5 to 8.0	Specific Gravity:	1.04 gm/ml
Solubility	Complete		

8. Toxicological information

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
dodecylbenzenesulphonic acid	LD50 Oral	Rat	650 mg/kg	-
2,2',2''-nitritotriethanol	LD50 Oral	Rat	4920 uL/kg	-

Conclusion/Summary	Not available
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Chronic toxicity

Conclusion/Summary	Not available
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9. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated	-	-	-	-	-

PG* : Packing group