

Material Safety Data Sheet

Liquid Detergent

1. Product and company identification

Product name	Liquid Detergent	In case of emergency	1-800-843-6174
Code	6139FS	Validation date	7/14/2009.
Material uses	Liquid Hand Dishwashing Detergent	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	*	1	HAZARD RATING
Flammability		2	4 = Extreme
Physical hazards		0	3 = High
Personal protection		B	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. CANCER HAZARD - CONTAINS MATERIAL WHICH CAN CAUSE CANCER. May be harmful if swallowed. Avoid exposure - obtain special instructions before use. 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. Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure. 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	Contains material which can cause cancer. Risk of cancer depends on duration and level of exposure.
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	%
Sodium laureth (n=>3) sulfate	9004-82-4	10 - 30
sodium chloride	7647-14-5	5 - 10
ethanol	64-17-5	1 - 5
2-dimethylaminoethanol	108-01-0	1 - 5

California Prop. 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Max acceptable dosage
methylene chloride	Yes.	No.	200 µg/day (inhalation)	No.
1,3-dichloropropene	Yes.	No.	No.	No.

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.
Inhalation	Move exposed person to fresh air. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.
Ingestion	Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4. First aid measures

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
halogenated compounds
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.

Ingredient	Exposure limits
ethanol	ACGIH TLV (United States, 1/2008). TWA: 1000 ppm 8 hour(s). OSHA PEL (United States, 11/2006). TWA: 1000 ppm 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

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

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.

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.

7. Physical and chemical properties

Physical state	Liquid	Boiling/condensation point	100°C (212°F)
Color	Blue	Melting/freezing point	0°C (32°F)
Odor	Floral	Vapor pressure	<4 kPa (<30 mm Hg)
VOC	4.4%	Vapor density	<1 [Air = 1]
pH	5.5 to 6.5	Weight per Gallon:	8.91 lbs/gal
1% pH:	7	Specific Gravity:	1.06 gm/ml

8. Toxicological information

Acute toxicity

Product/ingredient name

Sodium laureth (n=>3) sulfate
sodium chloride

Result

LD50 Oral

LD50 Oral

LC50 Inhalation Dusts
and mists

LD50 Oral

LD50 Oral

LC50 Inhalation Gas.

Species

Rat

Rat

Rat

Rat

Rat

Rat

Dose

1600 mg/kg

3000 mg/kg

>42 gm/m3

7060 mg/kg

2 gm/kg

1641 ppm

Exposure

-

-

1 hours

-

-

4 hours

Conclusion/Summary

Not available

Chronic toxicity

Conclusion/Summary

Not available

9. Transport information

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
DOT Classification	Not regulated	-	-	-		Review if Shipped in Package Over 119 Gallons

PG* : Packing group