

Safety Data Sheet

Issue Date: 02-Sep-2015

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Version 1

1. IDENTIFICATION

Product Identifier Product Name	Lion Laundry Detergent
Other means of identification SDS #	E-035
Recommended use of the chemical	and restrictions on use
Recommended Use	Cleaning agent.
Details of the supplier of the safety	data sheet
Supplier Address Emulso Corporation 2750 Kenmore Avenue Tonawanda, NY 14150	
Emergency Telephone Number	
Company Phone Number	Phone: 716-854-2889
Emergency Telephone (24 hr)	Fax: 716-854-2809 INFOTRAC 1-352-323-3500 (International) 1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance According to product specification

Physical State Liquid

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards Not Otherwise Classified (HNOC)

Causes mild skin irritation

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
1-Butoxy-2-propanol	5131-66-8	1-5
Ethyl Alcohol	64-17-5	<1

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

General Advice

Provide this SDS to medical personnel for treatment.

Eye Contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes.
Inhalation	Remove to fresh air.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effe	<u>cts</u>

Symptoms Causes mild skin irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Not determined.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protective equipment as required.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
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Methods for Clean-Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.
ding any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place.
None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol	STEL: 1000 ppm	TWA: 1000 ppm	IDLH: 3300 ppm
64-17-5		TWA: 1900 mg/m ³	TWA: 1000 ppm
		(vacated) TWA: 1000 ppm	TWA: 1900 mg/m ³
		(vacated) TWA: 1900 mg/m ³	-

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Refer to 29 CFR 1910.133 for eye and face protection regulations.
Skin and Body Protection	Refer to 29 CFR 1910.138 for appropriate skin and body protection.
Respiratory Protection	Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Appearance Color	Liquid According to product specification Not determined	Odor Odor Threshold	Not determined Not determined
Property pH Melting Point/Freezing Point Boiling Point/Boiling Range Flash Point Evaporation Rate Flammability (Solid, Gas) Upper Flammability Limits Lower Flammability Limit Vapor Pressure Vapor Density Specific Gravity Water Solubility Solubility in other solvents Partition Coefficient Auto-ignition Temperature Decomposition Temperature Kinematic Viscosity Dynamic Viscosity Explosive Properties Oxidizing Properties	ValuesNot determinedNot determined	<u>Remarks • Method</u>	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information	
Eye Contact	Avoid contact with eyes.
Skin Contact	Causes mild skin irritation.
Inhalation	Do not inhale.
Ingestion	Do not ingest.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nonylphenol Ethoxylate 127087-87-0	= 1310 mg/kg (Rat)	-	-
1-Butoxy-2-propanol 5131-66-8	= 5660 µL/kg (Rat) = 1900 mg/kg (Rat)	= 3100 mg/kg (Rabbit)	-
Sodium Chloride 7647-14-5	= 3 g/kg (Rat)	> 10 g/kg (Rabbit)	> 42 g/m³(Rat)1 h
Ethyl Alcohol 64-17-5	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat)4 h
Polyethylene glycol 25322-68-3	= 28 g/kg (Rat)	> 20 mL/kg (Rabbit)> 20 g/kg (Rabbit)	-

Information on physical, chemical and toxicological effects

Symptoms

Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity

Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol	A3	Group 1	Known	Х
64-17-5		-		

Legend

ACGIH (American Conference of Governmental Industrial Hygienists) A3 - Animal Carcinogen IARC (International Agency for Research on Cancer) Group 1 - Carcinogenic to Humans NTP (National Toxicology Program) Known - Known Carcinogen **OSHA (Occupational Safety and Health Administration of the US Department of Labor)** X - Present

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Chemical Name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium Chloride		5560 - 6080: 96 h Lepomis		1000: 48 h Daphnia magna
7647-14-5		macrochirus mg/L LC50		mg/L EC50 340.7 - 469.2: 48
		flow-through 12946: 96 h		h Daphnia magna mg/L
		Lepomis macrochirus mg/L		EC50 Static
		LC50 static 6020 - 7070: 96		
		h Pimephales promelas mg/L		
		LC50 static 7050: 96 h		
		Pimephales promelas mg/L		
		LC50 semi-static 6420 -		
		6700: 96 h Pimephales		
		promelas mg/L LC50 static		
		4747 - 7824: 96 h		
		Oncorhynchus mykiss mg/L		
		LC50 flow-through		
Ethyl Alcohol		12.0 - 16.0: 96 h	EC50 = 34634 mg/L 30 min	
64-17-5		Oncorhynchus mykiss mL/L	EC50 = 35470 mg/L 5 min	magna mg/L LC50 2: 48 h
		LC50 static 13400 - 15100:		Daphnia magna mg/L EC50
		96 h Pimephales promelas		Static 10800: 24 h Daphnia
		mg/L LC50 flow-through 100:		magna mg/L EC50
		96 h Pimephales promelas		
		mg/L LC50 static		
Polyethylene glycol		5000: 24 h Carassius		
25322-68-3		auratus mg/L LC50		

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Chemical Name	Partition Coefficient
Ethyl Alcohol 64-17-5	-0.32

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

California Hazardous Waste Status

Chemical Name		California Hazardous Waste Status		
Ethyl Alcohol		Toxic		
	64-17-5	Ignitable		
	14. TRANSPO	ORT INFORMATION		
<u>Note</u>	Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.			
DOT	Not regulated	Not regulated		
IATA	Not regulated	Not regulated		
IMDG	Not regulated			

15. REGULATORY INFORMATION

International Inventories

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
1-Butoxy-2-propanol	Present	Х		Present		Present	Х	Present	Х	Х
Ethyl Alcohol	Present	Х		Present		Present	Х	Present	Х	Х

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

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

CWA (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)

US State Regulations

California Proposition 65

Ethyl alcohol is only considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage.

Chemical Name	California Proposition 65		
Ethyl Alcohol - 64-17-5	Carcinogen		
	Developmental		

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Ethyl Alcohol	Х	Х	Х
64-17-5			

16. OTHER INFORMATION

NFPA	
HMIS	

Health Hazards	Flammability
Not determined	Not determined
Health Hazards	Flammability
Not determined	Not determined
02-Sep 08-Sep New for	-2015

Instability Not determined Physical Hazards Not determined Special Hazards Not determined Personal Protection Not determined

Disclaimer

Issue Date: Revision Date: Revision Note:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet