

SAFETY DATA SHEET

Issuing date 03-Nov-2011

Revision Date 14-Nov-2014

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier		
Product name	Lion Powder Detergent	
Other means of identification		
Product Code	LDBIFRSP	
Document	E-51	
Recommended use of the chemical	and restrictions on use	
Recommended use	Laundry Detergent	
Details of the supplier of the safety	data sheet	
Emulso Corporation 2750 Kenmore Avenue Tonawanda, New York 14150		
<u>Emergency telephone number</u> 24 Hour Emergency Phone Number	INFOTRAC: 1-800-535-5053	
Company Phone Number	716-854-2889	

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

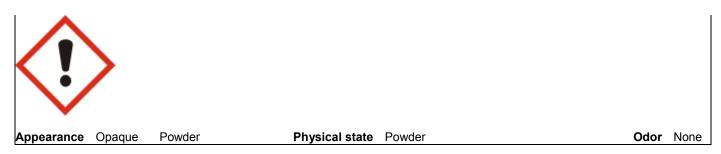
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2

Label elements

Emergency Overview

Warning

Hazard Statements Harmful if inhaled Causes serious eye irritation



Precautionary Statements - Prevention

- Avoid breathing dust/fume/gas/mist/vapors/spray
- Use only outdoors or in a well ventilated area
- Wash face, hands and any exposed skin thoroughly after handling
- Wear eye/face protection

Precautionary Statements - Response

• IF exposed or concerned: Get medical advice/attention

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing • If eye irritation persists: Get medical advice/attention

- IF ON SKIN: Wash with plenty of soap and water
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor/physician if you feel unwell
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Precautionary Statements - Storage

Store in a well-ventilated place

Precautionary Statements - Disposal

Dispose of contents/container to approved disposal facility

Hazards not otherwise classified (HNOC)

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Other information
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Unknown Acute Toxicity

1.02% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Chemical Name	CAS-No	Weight-%	Trade Secret
Sodium carbonate	497-19-8	20% - 50%	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice

Show this safety data sheet to the doctor in attendance.

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.	
Skin contact	Flush with flowing water for 15 minutes. See a physician if burning persists.	
Inhalation	Remove to fresh air. If breathing has stopped, apply suitable artificial respiration. Get medical help.	
Ingestion	Do not induce vomiting unless directed by a physician. If conscious and alert, give two glasses of water. Seek medical attention immediately.	
Most important symptoms/effe	cts, acute and delayed	
Main Symptoms	The most important known symptoms and effects are described in the labelling in section 2 and/or in section 11.	
Indication of immediate medica	al attention and special treatment needed, if necessary	
Notes to physician	Treat symptomatically.	
	5. FIRE-FIGHTING MEASURES	
Specific hazards arising from t Use water spray to cool adjacent Hazardous Combustion Products Explosion Data Sensitivity to Mechanical In Sensitivity to Static Discha Protective Equipment and Prec	fire exposed containers. When heated to decomposition, emits chlorine and sodium oxide at 1413°C. mpact None. Irge None.	
	6. ACCIDENTAL RELEASE MEASURES	
Personal precautions, protectiv	ve equipment and emergency procedures	
Personal precautions	Avoid dust formation. Ensure adequate ventilation.	
Environmental precautions		
Environmental precautions	See Section 12 for additional Ecological Information.	
Methods and materials for con	tainment and cleaning up	

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Sweep up to suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling Advice on safe handling Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Wash thoroughly after work using soap and water. Do not eat, drink or smoke when using this product. Conditions for safe storage, including any incompatibilities **Technical measures/Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. conditions Incompatible products Strong acids. 8. EXPOSURE CONTROLS/PERSONAL PROTECTION Control parameters **Exposure Guidelines** Review Section 3 & 4 for Exposure Guidelines. Appropriate engineering controls **Engineering Measures** Ensure adequate ventilation and that running water is available for washing eyes and skin Individual protection measures, such as personal protective equipment **Eye/Face Protection** Splash-proof chemical goggles or face shield. Skin and body protection Impervious rubber, alkali-proof protective gloves. Impervious rubber boots & apron.. **Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations. **Hygiene measures** Do not eat, drink or smoke when using this product. Practice good personal hygiene. Wash after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state Appearance Color	Powder Opaque Powder light blue	Odor Odor Threshold	None No information available
Property pH Melting/freezing point Boiling point/boiling range Flash Point Evaporation rate Flammability (solid, gas) Flammability Limits in Air Upper flammability limit Lower flammability limit Vapor pressure Vapor density Specific Gravity Water solubility	ValuesNo information availableNo information availableNACompletely Soluble	Remarks • Methods	-

Solubility in other solvents	No information available
Partition coefficient: n-octanol/wate	erNo information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing Properties	No information available

Other information

Softening point Molecular Weight VOC Content(%) Density VALUE Bulk Density VALUE

No information available No information available 0.0% No information available No information available

10. STABILITY AND REACTIVITY

Chemical stability

Stable. Store in a cool, dry area.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

Strong acids.

Hazardous Decomposition Products

When heated to decomposition, emits chlorine and sodium oxide at 1413°C.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Prod	luct Information	Harmful by inhalation Causes serious eye irritation
h	nhalation	Inhalation of dust in high concentration may cause irritation of respiratory system.
E	Eye contact	Severely irritating to eyes.
S	Skin contact	May cause irritation.
h	ngestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	Oral LD50	Dermal LD50	LC50 Inhalation
Sodium carbonate 497-19-8	= 4090 mg/kg (Rat)	-	= 2300 mg/m ³ (Rat)2 h

Information on toxicological effects

Symptoms

No information available.

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

Sensitization	No information available.
Mutagenic effects	No information available.

Carcinogenicity	Contains no ingredient listed as a carcinogen.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic toxicity	No known effect.
Aspiration hazard	No information available.

Numerical measures of toxicity - Product Information

 Unknown Acute Toxicity
 1.02% of the mixture consists of ingredient(s) of unknown toxicity

 The following values are calculated based on chapter 3.1 of the GHS document
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 ATEmix (oral)
 6501 mg/kg

 ATEmix (inhalation-dust/mist)
 2.9 mg/l

12. ECOLOGICAL INFORMATION

Ecotoxicity

2.62% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium carbonate	242: 120 h Nitzschia mg/L EC50	310 - 1220: 96 h Pimephales	265: 48 h Daphnia magna mg/L
497-19-8	_	promelas mg/L LC50 static 300: 96	EC50
		h Lepomis macrochirus mg/L LC50	
		static	

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available

Do not reuse container.

13. DISPOSAL CONSIDERATIONS

Waste treatment

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

Contaminated packaging

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Sodium carbonate	Corrosive
497-19-8	

14. TRANSPORT INFORMATION

DOT

Proper shipping name

Not regulated Cleaning Compound, Not Regulated

15. REGULATORY INFORMATION

	10111
International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	-
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - All components of this product are listed or are exempt or excluded from listing on the 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 Commercial Chemical Substances/EU 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

U.S. Federal Regulations

SARA 313

Sara Title III (EPCRA) NOTIFICATION: Does not contain chemicals subject of the reporting requirements of Section 302, 304, or 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986.COMPREHENSIVE ENVIRONMENT RESPONSE, COMPENSATION, AND LIABILITY ACT(CERLA) NOTIFICATION: This does not contain chemical subject to reporting under CERCLA For more information consult 40 CFR parts 302, 355, 370, 372, and 40 CFR part 68.

SARA 311/312 Hazard Categories	
Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product contains substances regulated by state right-to-know regulations. <u>U.S. EPA Label Information</u> EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION						
<u>NFPA</u>	Health Hazards 1	Flammability 0	Instability 0	Physical and chemical hazards -		
HMIS	Health hazard 1	Flammability 0	Physical Hazards 0	Personal protection X		
Prepared By	Emulso Corporation 2750 Kenmore Avenue Tonawanda, New York 14150					
Issuing date Revision Date Revision Note 1	03-Nov-2011 14-Nov-2014					

Disclaimer

The information provided in this Material 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