Sunbow Liquidet FX-9

Technical Dossier

Table of Contents

-Technical Bulletin -SDS -Label -Letter of Guarantee

Shepard Bros. Inc. | 503 S. Cypress St. La Habra, CA 90631 800.645.3594 | www.shepardbros.com



PRODUCT DESCRIPTION

SUNBOW LIQUIDET FX-9 is a premium concentrated liquid detergent that can be used for all soil classifications. This premium product incorporates complex surfactants that are designed to be equally effective on removing particulate soils as on oil and grease.

PROPERTIES AND BENEFITS

- Solvents specifically designed to aid oil and grease removal.
- Powerful surfactants quickly penetrate soils and emulsify oil and grease to reduce wash time. Especially effective on oily and greasy soils like lipstick, cosmetics, cooking oils and salad dressings.
- Optical brightener for whiter whites and brighter colors.
- Contains chelating agents and is effective in hard water conditions.
- Designed to be used with either liquid injection equipment or manual addition.
- Pleasant citrus fragrance and blue color to easily identify and differentiate from other products.
- Fortified with water conditioners and soil suspending polymers to eliminate the need for multiple products in hard water environments.
- Slightly elevated pH to eliminate dye transfer when used without an alkali.

DIRECTIONS

Use 2-6 oz/cwt for normal soil load.

Your Shepard Bros. representative can recommend specific use instructions and recommended dispensing equipment which will depend on your operating conditions.

SAFE HANDLING

Caution: contact with water, acid or moist air liberates irritating gas. Severe skin & eye irritant.

(Rev. 03/17)

The technical information and use suggestions herein are presented in good faith and are believed to be reliable. They do not constitute a part of our terms and conditions of sale unless specifically incorporated in our Order Acknowledgement. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct, or that the product described is merchantable or fit for a particular purpose, or that said information, data or product can be used without infringing patents of a third party. The purchaser must determine individually, by preliminary tests or otherwise, the suitability of this product for the intended purpose.

A Safety Data Sheet containing detailed information regarding the properties and safe handling of **SUNBOW LIQUIDET FX-9** is available on request and should be reviewed prior to using this product

(Rev. 03/17)

The technical information and use suggestions herein are presented in good faith and are believed to be reliable. They do not constitute a part of our terms and conditions of sale unless specifically incorporated in our Order Acknowledgement. Nothing herein shall be deemed to constitute a warranty, expressed or implied, that said information or data are correct, or that the product described is merchantable or fit for a particular purpose, or that said information, data or product can be used without infringing patents of a third party. The purchaser must determine individually, by preliminary tests or otherwise, the suitability of this product for the intended purpose.



1. PRODUCT AND COMPANY IDENTIFICATION Product Code: SN/LDFX9 **Product Name:** Liquidet FX-9 Shepard Bros., Inc. **Company Name: Phone Number:** 503 S. Cypress St. +1 (562)697-1366 La Habra, CA 90631 Web site address: www.shepardbros.com CHEMTREC **Emergency Contact:**

+1 (800)424-9300

Product Category:

Detergent/Cleaner

2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 3 Skin Corrosion/Irritation, Category 3 Skin Sensitization, Category 1 Aquatic Toxicity (Acute), Category 3 Aquatic Toxicity (Chronic), Category 3



GHS Signal Word:	Warning
GHS Hazard Phrases:	H226 - Flammable liquid and vapor.
	H316 - Causes mild skin irritation.
	H317 - May cause an allergic skin reaction.
	H402 - Harmful to aquatic life.
	H412 - Harmful to aquatic life with long lasting effects.
GHS Precaution Phrases:	P233 - Keep container tightly closed.
	P210 - Keep away from heat/sparks/open flames/hot surfaces No smoking.
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.
	P240 - Ground/bond container and receiving equipment.
	P241 - Use explosion-proof electrical/ventilating/lighting// equipment.
	P243 - Take precautionary measures against static discharge.
	P242 - Use only non-sparking tools.
	P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
	P272 - Contaminated work clothing should not be allowed out of the workplace.
	P362+364 - Take off contaminated clothing and wash it before reuse.
	P273 - Avoid release to the environment.
GHS Response Phrases:	P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P332+313 - If skin irritation occurs, get medical advice/attention.
	P321 - Specific treatment see Section 4 reference to supplemental first aid instruction - if immediate measures are required.
GHS Storage and Disposal Phrases:	P403+235 - Store in cool/well-ventilated place. P501 - Dispose of contents/containers in accordance with local/regional/national/international regulations.

	SAFETY DATA SHEET Page: 2 of 6				
CHINBOW	Liquidet FX-9 Printed: 08/13/2014				
TECHNOLOGIES	Revision: 08/13/2014 Supersedes Revision: 01/18/2014				
	Flammability A Instability				
Hazard Rating System:					
	Health				
	NFPA: V Special Hazard				
Potential Health Effects	Chronic: In 2-year gavage studies, there was clear evidence of carcinogenic activity of				
(Acute and Chronic):	d-limonene for male rats, as shown by increased incidences of tubular cell hyperplasia, adenomas, and adenocarcinomas of the kidney. There was NO evidence of carcinogenic				
	activity of d-limonene for female rats, for male mice, or for female mice.				
Inhalation:	May cause irritation to mucous membranes.				
Skin Contact:	May cause skin irritation. May cause an allergic skin reaction.				
Eye Contact:	May cause irritation, redness, stinging, tearing, and swelling.				
Ingestion:	May cause gastrointestinal irritation with nausea, vomiting and diarrhea.				
3. CO	OMPOSITION/INFORMATION ON INGREDIENTS				
CAS # Hazardous Components (Chemical Name) Concentration					
5989-27-5 Limonene	<2.00 %				
	4. FIRST AID MEASURES				
Emergency and First Aid Procedures:					
In Case of Inhalation:	Remove from exposure and move to fresh air immediately. If breathing is difficult, give				
	oxygen. If breathing has ceased apply artificial respiration using oxygen and a suitable				
	mechanical device such as a bag and a mask. Call a physician.				
In Case of Skin Contact:	Flush skin with plenty of water for at least 15 minutes while removing contaminated				
	clothing and shoes. Gently wash with plenty of soap and water. Wash contaminated clothing separately before reuse. Get medical aid if irritation develops or persists.				
In Case of Eye Contact:	Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and				
	lower eyelids. Remove contact lenses, if present and easy to do after 5 minutes and				
	continue rinsing for an additional 15 minutes. Get medical aid if irritation develops or				
	persists.				
In Case of Ingestion:	Rinse mouth. Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical				
	aid immediately.				
Note to Physician:	Treat symptomatically and supportively. Show this safety data sheet to the doctor in				
-	attendance.				
	5. FIRE FIGHTING MEASURES				
Flash Pt:	> 212 F (100 C) Method Used: Pensky-Marten Closed Cup				
Explosive Limits:	LEL: No data. UEL: No data.				
Autoignition Pt:	NA				
	lia:Use water spray, dry chemical, carbon dioxide, or appropriate foam.				
Fire Fighting Instructions:	As in any fire, wear a self-contained breathing apparatus in pressure-demand,				
	MSHA/NIOSH approved (or equivalent), and full protective gear. Containers can build up pressure if exposed to heat (fire). Use water spray to keep fire-exposed containers cool.				
Flammable Properties and	High temperatures and fire conditions can result in the formation of carbon monoxide				
Hazards:	and carbon dioxide, and oxides of: phosphorus, sulfur, potassium.				



	6. ACCIDENTAL RELEASE MEASURES
Protective Precautions, Protective Equipment and Emergency Procedures:	Use proper personal protective equipment as indicated in Section 8.
Environmental Precautions:	Do not let product enter drains, sewers, watersheds or water systems.
Steps To Be Taken In Case Material Is Released Or Spilled:	Spills/Leaks: Provide ventilation. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Contain spill using an inert diking material. Transfer material into an approved container for possible recovery and reuse or for disposal.
	7. HANDLING AND STORAGE
Precautions To Be Taken in Handling:	Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from heat, sparks and flame. Do not store in direct sunlight. Store away from strong oxidizing agents. Store in a tightly closed container. Keep container closed when not in use. Protect containers against damage.
Other Precautions:	Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	S # Partial Chemical Name		OSHA TWA	ACGIH TWA	Other Limits	
5989-27-5	Limonene		No data.	No data.	No data.	
Respiratory Equipment (Specify Type):		If good general or exhaust ventilation is maintained, none required. If vapor concentration exceeds TLV, use NIOSH approved respirator with an organic vapor cartridge. When vapor levels are unknown, use a self-contained breathing apparatus.				
Eye Protecti	on:	Chemical splash goggles or full-face shield.				
Protective Gloves:Wear appropriate protective gloves to prevent skin exposure. Solvent resistant Neoprene gloves. nitrile gloves.			esistant gloves,			
Other Protec	ctive Clothing:	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Rubber or neoprene boots.				
Engineering Controls (Ventilation etc.):		Local exhaust is usually adequate. Mechanical ventilation should be used when spraying in enclosed areas. Vapor concentration should be minimized as much as possible. Facilities storing or utilizing this material should be equipped with an eyewash facility, and a safety shower is recommended.				
Work/Hygier Practices:	nic/Maintenance	Handle in accordan	ice with good industrial hyg	iene and safety practice.		



9.	PHYSICAL AND CHEMICAL PROPERTIES
Physical States:	[]Gas [X]Liquid []Solid
Appearance and Odor:	Appearance: Transparent. Blue. Liquid.
	Odor: Mild citrus.
Melting Point:	< 32.0 F (0 C)
Boiling Point:	> 212 F (100 C)
Decomposition Temperature	: NA
Autoignition Pt:	NA
Flash Pt:	> 212 F (100 C) Method Used: Pensky-Marten Closed Cup
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.03
Density:	NA
Bulk density:	NA
Vapor Pressure (vs. Air or	NA
mm Hg):	
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	Complete
Saturated Vapor	NA
Concentration:	
Viscosity:	NA
pH:	NA
Percent Volatile:	NA
VOC / Volume:	NA
Particle Size:	NA
Heat Value:	NA
Corrosion Rate:	NA
	10. STABILITY AND REACTIVITY
Reactivity:	High temperatures and fire conditions can result in the formation of carbon monoxide
	and carbon dioxide, and oxides of: phosphorus, sulfur, potassium.
Stability:	Unstable [] Stable [X]
Conditions To Avoid -	High temperatures, Ignition sources, Incompatible materials.
Instability:	
Incompatibility - Materials To	Acids, Strong oxidizing agents, Strong reducing agents.
Avoid:	
Hazardous Decomposition O	${\bf r}$ High temperatures and fire conditions can result in the formation of carbon monoxide
Byproducts:	and carbon dioxide, and oxides of: phosphorus, sulfur, potassium.
Possibility of Hazardous	Will occur [] Will not occur [X]
Reactions:	
Conditions To Avoid -	No data available.
Hazardous Reactions:	



	11. TOXICOLOGICAL INFORMATION				
Toxicological Information:	Epidemiology: No information available. Teratogenicity: No information available.				
	Reproductive Effects: No data available.				
	Mutagenicity: No information available.				
	Neurotoxicity: No data available.				
	Other Studies: CAS# 5989-27-5:				
	Acute toxicity, LD50, Oral, Rat, 4400 mg/kg				
	Acute toxicity, LD50, Skin, Rabbit, 5gm/kg.				
Carcinogenicity/Other Information:	CAS# 5989-27-5: Not listed by ACGIH, IARC, NTP, or CA Prop 65.				
Carcinogenicity:	NTP? No IARC Monographs? No OSHA Regulated? No				
12. ECOLOGICAL INFORMATION					
General Ecological	Environmental: No data available.				
Information:	Physical: No information available.				
	Other: Dipentene, which is optically inactive limonene, is a marine pollutant.				
Results of PBT and vPvB	Other Studies: CAS# 5989-27-5:				
assessment:	LC50, Water Flea (Daphnia magna), 577 ug/L, 48H, Mortality				
	LC50, Fathead Minnow (Pimephales promelas), 600 - 800 ug/L, 24H, Mortality				
Persistence and Degradability:	Limonene can be readily degraded in soil.				
Bioaccumulative Potential:	May bioconcentrate in aquatic organisms and fish.				
Mobility in Soil:	Has low mobility in soil and may rapidly volatilize in the atmosphere.				
	13. DISPOSAL CONSIDERATIONS				
Waste Disposal Method:	Chemical waste generators must determine whether a discarded chemical is classified				
	as a hazardous waste. US EPA guidelines for the classification determination are listed				
	in 40 CFR Parts 261. Additionally, waste generators must consult state and local				
	hazardous waste regulations to ensure complete and accurate classification. Observe all				
	federal, state, and local environmental regulations.				
	RCRA P-Series: None listed.				
	RCRA U-Series: None listed.				
	14. TRANSPORT INFORMATION				

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated. DOT Hazard Class: UN/NA Number:



	15. REGULATORY INFORMATION					
EPA SARA (S	Superfund Amend	ments and Reauthorization Act	of 1986) Lists			
CAS #	CAS # Hazardous Components (Chemical Name)		S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)	
5989-27-5	Limonene		No	No	No	
CAS # Hazardous Components (Chemical Name)		Other US EPA or	Other US EPA or State Lists			
5989-27-5	5989-27-5 Limonene		TSCA: Yes - Inve	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No		
Regulatory Information: PROPOSITION 65 (Chemicals known to the state of California to cause cancer or					to cause cancer or	
	reproductive toxicity): This product may contain traces of: ethylene oxide (CAS 75-21-8)					
	16. OTHER INFORMATION					
Revision Date: 08/13/2014						
Additional In This Product		it No data available.				
Company Policy or Disclaimer:		Information presented herein is believed to be accurate and reliable to the best of our knowledge. However, we make no warranty or merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process. Users should make their own investigations to determine the suitability of the information for their particular purposes.				

LIQUIDET FX-9

WARNING

Flammable liquid and vapor. Causes mild skin irritation. May cause an allergic skin reaction. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

Precautionary Statements: Avoid breathing mist/vapors/spray. Wear protective gloves, protective clothing, eye protection, and face protection. Keep container tightly closed. Keep away from heat, sparks, open flames, hot surfaces - No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting equipment. Take precautionary measures against static discharge. Contaminated work clothing should not be allowed out of the workplace. Take off contaminated clothing and wash it before reuse. Avoid release to the environment.

Response Phrases:

IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water. If skin irritation occurs, get medical advice/attention.

SPECIFIC TREATMENT: See Section 4 of the SDS to reference supplemental first aid instruction if immediate measures are required.

Storage/Disposal: Store in a cool, well-ventilated place. Dispose of contents and containers in accordance with local, regional, national, and international regulations.

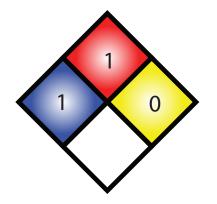
FOR INDUSTRIAL USE ONLY.

KEEP OUT OF REACH OF CHILDREN.



SHEPARD BROS., INC. 503 S. CYPRESS ST. La Habra, CA 90631 • (562) 697-1366 CONTAINS: D-LIMONENE. DO NOT STORE IN DIRECT SUNLIGHT.

Contact your Shepard Bros., Inc. representative for more specific use instructions and recommended dispensing equipment.



Read safety data sheets for more detailed information.

24 HR. EMERGENCY PHONE: 800-424-9300 (CHEMTREC)

PROPER SHIPPING NAME: NOT REGULATED

PRODUCT ID:

BATCH NO.:

NET CONTENTS:





3 S. Cypress St., La Habra, CA 90631

phone: 562/697-1366 fax: 562/697-5786

January 1, 2020

Based on current U.S. Food and Drug Administration Guidelines, this Letter of Guarantee certifies that the Shepard Bros., Inc. product, **Sunbow Liquid-det FX-9**, is safe and suitable as a laundry compound for uniforms or other fabrics which do not come in direct contact with food products.

This product must be used, handled and stored in a manner that will not adulterate food products. This product must always be used according to applicable label directions.

Sincerely,

Jose Arias Director of Compliance & Regulatory Affairs Shepard Bros., Inc.