

SB-Antifoam 2000 FGK



Technical Dossier

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S H E P A R D B R O S . I N C .

SB- ANTIFOAM 2000 FG-K

Food Grade Organic Defoamer

DESCRIPTION

SB-ANTIFOAM 2000 FG-K is a 100% active, food grade organic defoamer prepared from naturally-derived vegetable (triglyceride) oils. It is approved under 21CFR173.340 for use as a process defoamer and can be used in systems where direct food contact is entailed. It is certified as Kosher.

SB-ANTIFOAM 2000 FG-K is water dispersible, but would not be considered water soluble. This permits rapid foam suppression and surface spreading in most systems but does not detract from long term antifoam persistence. The product can be applied in the neat form or introduced via a water feed system. In the latter case, in-line mixers or similar equipment can be used to ensure adequate mixing. Water dilution in a day tank or holding tank is not recommended unless the material is to be used in a relatively short period of time. **SB- ANTIFOAM 2000 FG-K** does not significantly contribute to fouling of membrane filters and spray nozzles.

USE AND STORAGE GUIDELINES

Use rates can vary from 50 ppm up to 1000 ppm depending upon the severity of the foam, residence time of the defoamer in the foaming system, and other environmental factors.

SB- ANTIFOAM 2000 FG-K is recommended for use under neutral to slightly alkaline pH conditions. A pH range of between 5.5 to 9.0 is suggested for optimum antifoam performance. **SB- ANTIFOAM 2000 FG-K** works very well at elevated temperatures. The product does not freeze if stored at cold temperatures, but does exhibit a marked viscosity increase.

Please consult your Shepard Bros sales representative if your processing conditions would dictate the use of a different type of defoamer.

SALES SPECIFICATIONS

<u>Property</u>	<u>Typical Result</u>
Appearance at 25°C	Opaque, creamy yellow-tan liquid
Odor	Bland
Water Solubility	Readily Dispersible
Viscosity in cps at 25°C	450-1500
Flash Point °F (PMCC)	Greater than 300

(Rev. 7/18)

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.

The above properties are typical; they are not to be considered product specifications.

STORAGE AND HANDLING

A Safety Data Sheet containing detailed information regarding the properties and safe handling of **SB- ANTIFOAM 2000 FG-K** is available on request and should be reviewed prior to using this product.

(Rev. 7/18)

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Shepard Bros., Inc.

503 S. Cypress St. La Habra, CA 90631

(800) 645-3594

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: SBAF2000
Product Name: SB-Antifoam 2000 FGK
Company Name: Shepard Bros. Inc.
503 S. Cypress St.
La Habra, CA 90631
Phone Number: +1 (562)697-1366
Web site address: www.shepardbros.com
Emergency Contact: CHEMTREC +1 (800)424-9300

Product Category:

2. HAZARDS IDENTIFICATION

Aspiration Toxicity, Category 2



GHS Signal Word: **Warning**
GHS Hazard Phrases: H305 - May be harmful if swallowed and enters airways.
GHS Precautionary Phrases: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.
GHS Response Phrases:
GHS Storage and Disposal Phrases: P501 - Dispose of contents and containers in accordance with local, regional, national, and international regulations.
Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation. Aspiration can cause lung damage.
Skin Contact: Prolonged and/or repeated contact may cause irritation and/or dermatitis.
Eye Contact: Moderately irritating to the eyes. Causes redness and tearing.
Ingestion: No significant health effects anticipated. Prolonged exposure may cause irritation of the mucous membranes in the mouth, throat, esophagus and stomach, resulting in diarrhea and weakness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
8016-70-4	Soybean oil, hydrogenated	30.0 -60.0 %



SAFETY DATA SHEET

SB-Antifoam 2000 FGK

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Printed: 07/10/2019

Revision: 01/08/2019

Supersedes Revision: 07/29/2014

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	To ensure homogeneity, this product should be thoroughly mixed prior to use. Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Wash hands before eating.
Precautions To Be Taken in Storing:	Store in a cool, dry, well-ventilated area away from incompatible substances. Store between 32 - 100.4F. Do not store in direct sunlight for extended periods of time. Keep away from sources of ignition. Keep away from oxidizing agents. Keep away from acids. Keep away from bases. Protect containers against damage. Keep container closed when not in use.
Other Precautions:	Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
8016-70-4	Soybean oil, hydrogenated			
Respiratory Equipment (Specify Type):	Avoid breathing vapors and mists. Avoid generating mists or sprays to significantly reduce risk of respiratory exposure. Use a NIOSH/MSHA approved respirator, with a full-facepiece or a full-facepiece respirator with organic vapor cartridges when concentrations are unknown.			
Eye Protection:	Safety glasses with side shields. Wear chemical splash goggles and a full-face shield where there is potential for eye contact.			
Protective Gloves:	Wear appropriate protective gloves to prevent skin exposure. Rubber or neoprene gloves.			
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.			
Engineering Controls (Ventilation etc.):	Use adequate mechanical or local exhaust ventilation to minimize exposure levels, particularly in areas where the air contacts open process equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[<input type="checkbox"/>] Gas [<input checked="" type="checkbox"/>] Liquid [<input type="checkbox"/>] Solid		
Appearance and Odor:	Appearance: Amber. Liquid. Odor: Mild. fatty odor.		
pH:	NA		
Melting Point:			
Boiling Point:	> 200.00 C		
Flash Pt:	282.00 C Method Used: Setaflash Open Cup		
Evaporation Rate:	NA		
Flammability (solid, gas):			
Explosive Limits:	LEL:		UEL:
Vapor Pressure (vs. Air or mm Hg):	< 0.1 MM_HG		
Vapor Density (vs. Air = 1):	NA		
Specific Gravity (Water = 1):	0.94		
Density:	NA		
Solubility in Water:	Emulsifies		
Saturated Vapor Concentration:	NA		



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Octanol/Water Partition
Coefficient:
Autoignition Pt:
Decomposition Temperature:
Viscosity: NA

10. STABILITY AND REACTIVITY

Reactivity: High temperatures and fires may produce toxic carbon dioxide, carbon monoxide, smoke, and other partial combustion products.

Stability: Unstable [] Stable [X]

Conditions To Avoid - Excess heat, Incompatible materials, Ignition sources.

Instability:

Incompatibility - Materials To Avoid: Strong oxidizing agents, chlorates, nitrates, peroxides, Strong acids, Strong bases.

Hazardous Decomposition or Byproducts: High temperatures and fires may produce toxic carbon dioxide, carbon monoxide, smoke, and other partial combustion products.

Possibility of Hazardous Reactions: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Reactions:

11. TOXICOLOGICAL INFORMATION

Toxicological Information: Vegetable oil is the principal ingredient and is non toxic, edible material.

Carcinogenicity: NTP? No IARC Monographs? No OSHA Regulated? No

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No information available.
Physical: No information available.
Other: Do not empty into drains.

Results of PBT and vPvB assessment: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Rags, paper, insulation, clay or other materials saturated with this material should be stored in approved safety containers or dried individually in a well ventilated area to avoid spontaneous combustion.

Material that cannot be recovered or reused should be disposed of in accordance with all Federal, State and Local regulations. 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.

14. TRANSPORT INFORMATION



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LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

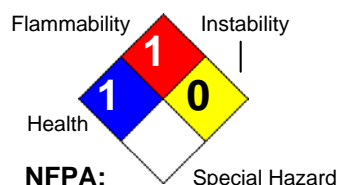
CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
8016-70-4	Soybean oil, hydrogenated	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
8016-70-4	Soybean oil, hydrogenated	TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8: No

16. OTHER INFORMATION

Revision Date: 01/08/2019

Hazard Rating System:



Additional Information About This Product:

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.

SB-ANTIFOAM 2000 FGK

FOOD PROCESSING ANTIFOAM



WARNING

May be harmful if swallowed and enters airways.



Precautionary Statements: Do not breathe mist/vapors/spray. Wash hands thoroughly after handling.

First Aid:

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. Get medical attention immediately.

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 attention if irritation 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 attention if irritation persists.

IN CASE OF INGESTION: Do NOT induce vomiting. If conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately.

NOTE TO PHYSICIAN: Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

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

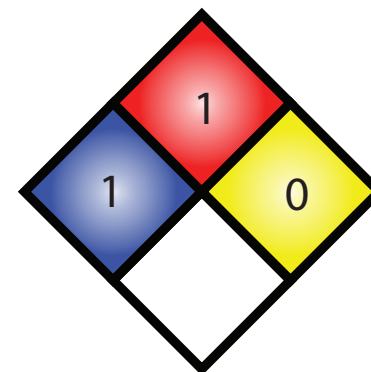
Storage/Disposal: Dispose of contents and containers in accordance with local, regional, national, and international regulations.

Supplemental Information: Although this product is generally considered non-toxic, its ingestion in large quantities may be harmful. Its contact with the eyes and skin may cause mild irritation. Keep containers closed when not in use and away from ignition sources and flames. When using this product, wear protective equipment and have adequate ventilation.

KEEP OUT OF REACH OF CHILDREN.

CONTAINS: VEGETABLE OIL. TO INSURE HOMOGENEITY, THIS PRODUCT SHOULD BE THOROUGHLY MIXED PRIOR TO USE.

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



Read safety data sheets for more detailed information.

PROPER SHIPPING NAME: NOT REGULATED

PRODUCT ID:

BATCH NO.:

NET CONTENTS:



SHEPARD BROS., INC.
503 S. CYPRESS ST.
La Habra, CA 90631 • (562) 697-1366

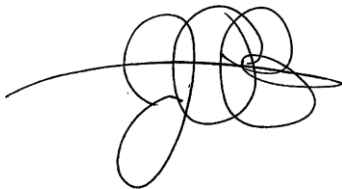
January 1, 2020

This Letter of Guarantee certifies that the Shepard Bros., Inc. product, **SB-Antifoam 2000 FGK**, is a food grade defoamer listed in 21 CFR 173.340 as a secondary direct food additive permitted in food for human consumption. All ingredients used in the manufacture of **SB-Antifoam 2000 FGK** are either GRAS or listed in the Code of Federal Regulations: Title 21, Section 173.340.

When used according to the product label directions and in accordance with Good Manufacturing Practice this product will have no deleterious effects on the foods being processed.

This product is not adulterated or misbranded nor will it leave any residue or migrants which would adulterate or cause the food products in which it is used to be adulterated or misbranded within the meaning of the Federal Food, Drug and Cosmetic Act as amended to date.

Sincerely,



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