

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: FLEXDF3
Product Name: Flex DF-3
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: Defoamer

2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 3
Skin Corrosion/Irritation, Category 1A
Serious Eye Damage/Eye Irritation, Category 1



GHS Signal Word: Danger

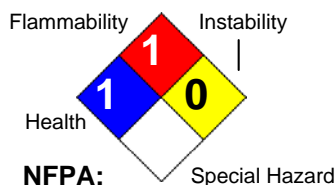
GHS Hazard Phrases: H226 - Flammable liquid and vapor.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.

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.
P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
P264 - Wash hands thoroughly after handling.

GHS Response Phrases: P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. P363 - Wash contaminated clothing before reuse.
P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P310 - Immediately call a POISON CENTER or doctor/physician.
P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
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.

Hazard Rating System:



**Potential Health Effects
(Acute and Chronic):**

Inhalation: May cause respiratory tract irritation.
Skin Contact: May cause skin irritation.
Eye Contact: May cause mild eye irritation. Causes redness and pain.
Ingestion: Low hazard for normal industrial handling.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
63148-62-9	Dimethicone	5.00 - 15.0 %

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. 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 advice/attention.

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: 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 attention immediately.

Note to Physician: Treat symptomatically and supportively. Show this safety data sheet to the doctor in attendance.

5. FIRE FIGHTING MEASURES

Flash Pt: NA

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: NA

Suitable Extinguishing Media: Dry chemical, CO2, water spray or regular 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.

Flammable Properties and Hazards: High temperatures and flames may produce: toxic. Carbon monoxide, Carbon dioxide, silicon dioxide, formaldehyde.



SAFETY DATA SHEET

Flex DF-3

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: Use proper personal protective equipment as indicated in Section 8.
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. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Keep container tightly closed. When heated to temperatures above 150°C in the presence of air, product can form formaldehyde vapors.

Precautions To Be Taken in Storing: Store in a cool, dry, well-ventilated area away from incompatible substances. Do not store in direct sunlight. Keep away from sources of ignition. Protect containers against damage. Keep container closed when not in use.

Other Precautions: Handle in accordance with good industrial hygiene and safety practices. Keep out of reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
63148-62-9	Dimethicone	No data.	No data.	No data.
Respiratory Equipment (Specify Type):	No special respiratory protection equipment is required with adequate ventilation. In case of insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications.			
Eye Protection:	Wear safety glasses with side shields or chemical splash goggles.			
Protective Gloves:	Wear appropriate gloves to prevent skin exposure. Rubber or neoprene gloves.			
Other Protective Clothing:	Wear appropriate protective clothing to minimize contact with skin.			
Engineering Controls (Ventilation etc.):	Ensure adequate ventilation, especially in confined areas. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid	
Appearance and Odor:	Appearance: Opaque. Viscous. Liquid. Odor: Mild.	
Melting Point:	NA	
Boiling Point:	> 212 F (100 C)	
Autoignition Pt:	NA	
Flash Pt:	NA	
Explosive Limits:	LEL: No data.	UEL: No data.
Specific Gravity (Water = 1):	1.01	
Density:	NA	
Vapor Pressure (vs. Air or mm Hg):	NA	
Vapor Density (vs. Air = 1):	NA	
Evaporation Rate:	NA	
Solubility in Water:	Dispersible	
Saturated Vapor Concentration:	NA	
Viscosity:	80 - 2000 CPS	
pH:	4.0 - 6.5	
Percent Volatile:	No data.	

10. STABILITY AND REACTIVITY

Reactivity:	High temperatures and flames may produce: toxic. Carbon monoxide, Carbon dioxide, silicon dioxide, formaldehyde.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	High temperatures, Incompatible materials.
Incompatibility - Materials To Avoid:	Strong oxidizers.
Hazardous Decomposition Or Byproducts:	High temperatures and flames may produce: toxic. Carbon monoxide, Carbon dioxide, silicon dioxide, formaldehyde.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.



SAFETY DATA SHEET

Flex DF-3

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# 63148-62-9:
 Acute toxicity, LD50, Oral, Rat, 17.0 gm/kg.

Irritation or Corrosion: Other Studies: CAS# 63148-62-9:
 Standard Draize Test, Eyes, Species: Rabbit, 100.0 mg, 1 H.

Carcinogenicity/Other Information: CAS# 63148-62-9: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

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

12. ECOLOGICAL INFORMATION

General Ecological Information: Physical: No information found.

Results of PBT and vPvB assessment: Other Studies: CAS# 63148-62-9:
 LC50, Water Flea (Daphnia magna) 44500 ug/l, 48 H, (instar), Mortality
 LC50, Channel Catfish (Ictalurus punctatus), 3160 ug/l, 96 H, Mortality.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

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 (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
63148-62-9	Dimethicone	No	No	No

Other US EPA or State Lists

CAS # Hazardous Components (Chemical Name) TSCA: Yes - Inventory, 8A, 8A PAIR; CA PROP.65: No; CA TAC, Title 8: No

63148-62-9 Dimethicone



SAFETY DATA SHEET

Flex DF-3

Page: 6 of 6

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Supersedes Revision: 07/19/2013

16. OTHER INFORMATION

Revision Date: 07/21/2014

Additional Information About No data available.

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.