

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: SBFLG50
Product Name: SB-FLG 50
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: CIP Acid Cleaner

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2A
Target Organ Systemic Toxicity (single exposure), Category 3



GHS Signal Word: **Warning**

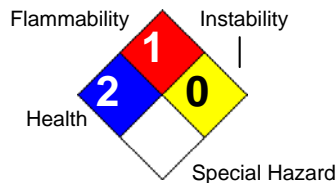
GHS Hazard Phrases: H315 - Causes skin irritation.
 H319 - Causes serious eye irritation.
 H335 - May cause respiratory irritation.

GHS Precaution Phrases: P264 - Wash hands thoroughly after handling.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.
 P362+364 - Take off contaminated clothing and wash it before reuse.
 P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

GHS Response Phrases: P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P315 - Get immediate medical advice/attention.
 P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P315 - Get immediate medical advice/attention.
 P302+352 - IF ON SKIN: Wash with plenty of soap and water. P332+313 - If skin irritation occurs, get medical advice/attention.
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P315 - Get immediate 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: P501 - Dispose of contents/containers in accordance with local / regional / national / international regulations.

Hazard Rating System:





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

Inhalation: Causes respiratory tract irritation. Inhalation of vapors will cause coughing or breathing difficulty.

Skin Contact: Contact causes skin irritation. May cause swelling, redness, and pain.

Eye Contact: Causes severe eye irritation and burns. Causes redness and pain. May cause conjunctivitis. Contact may cause ulceration of the conjunctiva and cornea. Eye damage may be delayed.

Ingestion: May cause irritation of the digestive tract. May cause nausea, vomiting, and abdominal pain.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
77-92-9	Citric acid	50.0 %

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 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 aid immediately.

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 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: Estimate

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

Autoignition Pt: 653 F (345 C)

Suitable Extinguishing Media: 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. Control run-off from fire and neutralize run-off with soda ash.

Flammable Properties and Hazards: Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas. Concentrations of hydrogen gas may accumulate inside metal equipment. High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.



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. Spill residues may be neutralized with dilute alkaline solution of soda ash or lime.

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. Keep away from strong bases. Keep away from 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 #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
77-92-9	Citric acid	No data.	TLV: 10 mg/m3	No data.
Respiratory Equipment (Specify Type):	Avoid breathing vapors and mists. Use a NIOSH/MSHA approved respirator, with a full-facepiece and supplied air or a full-facepiece respirator with acid gas cartridges when concentrations are unknown.			
Eye Protection:	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. Acid resistant gloves. Rubber or neoprene gloves.			
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure. Chemical resistant apron. Rubber or neoprene boots.			
Engineering Controls (Ventilation etc.):	Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.			
Work/Hygienic/Maintenance Practices:	Handle in accordance with good industrial hygiene and safety practice.			



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[] Gas [X] Liquid [] Solid
Appearance and Odor:	Appearance: Transparent. Colorless to yellowish. Liquid. Odor: Odorless.
Melting Point:	< 32.0 F (0 C)
Boiling Point:	> 212 F (100 C)
Decomposition Temperature:	NA
Autoignition Pt:	653 F (345 C)
Flash Pt:	> 212 F (100 C) Method Used: Estimate
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.24
Density:	NA
Bulk density:	NA
Vapor Pressure (vs. Air or mm Hg):	21.9 MM_HG at 77.0 F (25.0 C)
Vapor Density (vs. Air = 1):	NA
Evaporation Rate:	NA
Solubility in Water:	Complete
Saturated Vapor Concentration:	NA
Viscosity:	NA
pH:	NA
Percent Volatile:	50.0 % by weight.
VOC / Volume:	NA
Particle Size:	NA
Heat Value:	NA
Corrosion Rate:	NA

10. STABILITY AND REACTIVITY

Reactivity:	Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas. High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Stability:	Unstable [] Stable [X]
Conditions To Avoid - Instability:	Light, ignition source, Incompatible materials.
Incompatibility - Materials To Avoid:	Strong bases, Oxidizing agents, Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen gas.
Hazardous Decomposition Or Byproducts:	High temperatures and fire conditions can result in the formation of carbon monoxide and carbon dioxide.
Possibility of Hazardous Reactions:	Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions:	No data available.



11. TOXICOLOGICAL INFORMATION

Toxicological Information: Epidemiology: No information available.
 Teratogenicity: No information available.
 Reproductive Effects: No information available.
 Mutagenicity: No information available.
 Neurotoxicity: No information available.
 Other Studies: CAS# 77-92-2:
 Acute toxicity, LD50, Oral, Rat, 3000.0 mg/kg.

Irritation or Corrosion: Other Studies: CAS# 77-92-9:
 Standard Draize Test, Skin, Species: Rabbit, 500.0 mg, 24H
 Standard Draize Test, Eyes, Species: Rabbit, 750 ug, 24H.

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

12. ECOLOGICAL INFORMATION

General Ecological Information: Environmental: No data available.
 Physical: No information available.

Results of PBT and vPvB assessment: Other Studies: CAS# 77-92-2:
 LC50, Carp (Leuciscus idus ssp. melanotus), 440 mg/l, 48 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)
77-92-9	Citric acid	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
77-92-9	Citric acid	TSCA: Inventory; CA PROP.65: No; CA TAC, Title 8: No



SAFETY DATA SHEET

SB-FLG 50

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Revision: 11/27/2013

Supersedes Revision: 11/22/2004

16. OTHER INFORMATION

Revision Date: 11/27/2013

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.