In-Fact LK-5



Technical Dossier

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



IN-FACT LK-5

Chlorinated Foam Cleaner

PRODUCT DESCRIPTION

IN-FACT LK-5 is a liquid, self-foaming chlorinated detergent formulated for the spray, soak, and foam cleaning of dairy and food processing equipment.

PROPERTIES AND BENEFITS

- High foaming formulation.
- Built-in water conditioner. Heavy-duty chelate prevents scale formation.
- Ideal blend of wetting agents for maximum soil penetration and removal.
- Excellent foam stability.
- Versatile one-product, multi-job cleaner.
- Works in most water conditions.
- Leaves stainless steel bright and shiny; prevents hard water precipitates.
- Attacks and removes protein soils and fats.
- Clear, free rinsing.

DIRECTIONS

For heavy soils use at 2-6 fluid oz. per gallon of water.

For lighter soils use at 1-2 fluid ounces per gallon of water.

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

PROPERTIES AND SAFE HANDLING

A Safety Data Sheet containing detailed information regarding the properties and safe handling of **IN-FACT LK-5** is available on request and should be reviewed prior to using this product.

(Rev. 11/16)

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.



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1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: IFLK5

Product Name: In-Fact LK-5

Company Name: Shepard Bros. Inc. Phone Number:

503 S. Cypress St. +1 (562)697-1366

La Habra, CA 90631

Web site address: www.shepardbros.com

Emergency Contact: CHEMTREC +1 (800)424-9300

Product Category:

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1A



GHS Signal Word: Danger

GHS Hazard Phrases: H314 - Causes severe skin burns and eye damage.GHS Precautionary Phrases: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.

P264 - Wash hands thoroughly after handling.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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. 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. P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P310 - Immediately call a POISON CENTER or

doctor/physician.

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 and containers in accordance with local, regional, national,

and international regulations.

Other Hazards: Toxic to aquatic life.

Potential Health Effects (Acute and Chronic):

Chronic: No information available.

Inhalation: Harmful if inhaled. Causes severe irritation of upper respiratory tract with coughing,

burns, breathing difficulty, and possible coma. Irritation may lead to chemical

pneumonitis and pulmonary edema. Causes chemical burns to the respiratory tract.

Skin Contact: Causes severe skin irritation. Can cause severe injury (reddening and swelling). May

cause deep, penetrating ulcers of the skin. Can cause chemical burn. Prolonged or

repeated skin contact may cause dermatitis. Effects may be delayed.

Eye Contact: Causes severe eye burns. May cause irreversible eye injury. Contact may cause

ulceration of the conjunctiva and cornea. Eye damage may be delayed. Causes redness

and pain.

Ingestion: Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and

diarrhea. Causes gastrointestinal tract burns. May cause severe and permanent damage



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to the digestive tract. May cause perforation of the digestive tract. May cause systemic effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS # Hazardous Components (Chemical Name) Concentration
1310-58-3 Potassium hydroxide 1.0 -5.0 %
7681-52-9 Sodium hypochlorite 1.0 -5.0 %
1310-73-2 Sodium hydroxide 1.0 -5.0 %

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 immediate medical advice/attention.

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: NA Method Used: Estimate

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

Autoignition Pt: NA

Suitable Extinguishing Media:Foam, CO2, water fog, sand/earth.

Unsuitable Extinguishing

Media:

Do not use dry chemical extinguisher containing ammonium compounds.

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. Use water spray to keep fire-exposed containers cool. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Wear appropriate protective clothing

to prevent contact with skin and eyes.

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.

Hazardous Combustion

Products:

High temperatures and flames may produce: Toxic chlorine, Carbon monoxide, hydrogen chloride, Oxides of potassium, sodium oxide. Contact of this product with many "active" metals such as aluminum, copper and zinc, can cause formation of flammable hydrogen

gas.



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6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:

Use proper personal protective equipment as indicated in Section 8.

Environmental Precautions: Steps To Be Taken In Case

Material Is Released Or Spilled:

Do not let product enter drains, sewers, watersheds or water systems. 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. Residues may be neutralized with dilute acetic or hydrochloric acids. Do not let this chemical enter the environment.

7. HANDLING AND STORAGE

Precautions To Be Taken in

Handling:

Keep away from heat, sparks and flame. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale. Keep away from acids.

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. Keep away from acids. Store in a tightly closed container. 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/PERSONA	L PROTECTION
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CAS#	Partial Chemical Na	me	OSHA TWA	ACGIH TWA	Other Limits
1310-58-3	Potassium hydroxide		No data.	CEIL: 2 mg/m3	No data.
7681-52-9	Sodium hypochlorite		No data.	No data.	No data.
1310-73-2	Sodium hydroxide		PEL: 2 mg/m3	CEIL: 2 mg/m3	No data.
CAS#	Chemical Name	Jurisdiction	Recommended Ex	posure Limits	Notations
1310-58-3	Potassium hydroxide	NIOSH	TWA: 1 mg/m3		
			CEIL: 2 mg/m3		
1310-73-2	Sodium hydroxide	NIOSH	CEIL: 2 mg/m3		

Respiratory Equipment

(Specify Type):

Avoid breathing vapors and mists. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are

experienced. Use a NIOSH/MSHA approved respirator, with a full-facepiece or a full-facepiece respirator with chlorine cartridges when concentrations are unknown.

Wear chemical splash goggles and a full-face shield where there is potential for eye **Eye Protection:**

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. Chemical resistant apron.

Rubber or neoprene boots.

Engineering Controls

(Ventilation etc.):

Use adequate general or local exhaust ventilation to minimize exposure levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety

shower.

Practices:

Work/Hygienic/Maintenance Handle in accordance with good industrial hygiene and safety practice.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States: [] Gas [X] Liquid [] Solid Appearance and Odor: Appearance: Clear. Amber. Liquid.

Odor: chlorine-like.

pH: 13.5-13.85 at 25.0 C

Melting Point: < 32.00 F **Boiling Point:** > 212.00 F

Flash Pt: NA Method Used: Estimate

Evaporation Rate: No data.

Flammability (solid, gas): No data available.

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

No data.

Vapor Pressure (vs. Air or

mm Hg):

Vapor Density (vs. Air = 1): No data.

Specific Gravity (Water = 1): 1.098

Solubility in Water: Complete

Octanol/Water Partition No data.

Coefficient:

Percent Volatile: NA
Autoignition Pt: NA
Decomposition Temperature: No data.
Viscosity: No data.

Molecular Formula & Weight: Proprietary Mixture 0.0

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.

Stability: Unstable [] Stable [X]

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

Instability:

Incompatibility - Materials To Strong acids, amines, Ammonia, Ammonium salts. Reducing agents, formic acid,

Avoid: methanol, Contact of this product with many "active" metals such as aluminum, copper

and zinc, can cause formation of flammable hydrogen gas.

Hazardous Decomposition or High temperatures and flames may produce: hydrogen chloride, Toxic chlorine, Carbon

Byproducts:

monoxide, Oxides of potassium, oxides of phosphorus, sodium oxide. Contact of this

product with many "active" metals such as aluminum, copper and zinc, can cause

formation of flammable hydrogen gas.

Possibility of Hazardous

Reactions:

Will occur [] Will not occur [X]

Conditions To Avoid - No data available.

Hazardous Reactions:



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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. No information available.

Teratogenicity: No information available. Reproductive Effects: No data available. Mutagenicity: No information available. Neurotoxicity: No data available. Other Studies: CAS# 1310-58-3:

Acute toxicity, LD50, Oral, Rat, 273 mg/kg

Other Studies: CAS# 1310-73-2

Acute toxicity, LDLO, Oral, Species: Rabbit, 500.0 mg/kg.

Other Studies: CAS# 7681-52-9:

Acute toxicity, LD50, Oral, Mouse, 5800 mg/kg

Irritation or Corrosion: Other Studies: CAS# 1310-58-3:

Standard Draize Test, Skin, Species: Rabbit, 50.0 mg, 24H

Other Studies: CAS# 1310-73-2

Standard Draize Test, Eyes, Species: Rabbit, 50.0 ug, 24H Standard Draize Test, Skin, Species: Rabbit, 500 mg, 24H.

Other Studies: CAS# 7681-52-9:

Standard Draize Test, Eyes, Species: Rabbit, 1.310 mg

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

12. ECOLOGICAL INFORMATION

General Ecological

Information:

Physical: No information available.

Environmental: No information available.

Other: Do not empty into drains.

Results of PBT and vPvB

assessment:

Other Studies: CAS# 1310-58-3:

LC50, Western Mosquitofish (Gambina affinis), adult(s), 80000 ug/L, 96H, Mortality

Other Studies: CAS# 1310-73-2:

LC50, Common Shrimp, Sand Shrimp (Crangon crangon), adult(s), 33000 - 100000

ug/L, 48H

LC50, Western Mosquitofish (Gambusia affinis), adult(s), 125000 ug/L, 96H LC50, Cockle (Cerastoderma edule), adult(s) 330000 - 1000000 ug/L, 48H LC50, Guppy (Poecilia reticulata)}, young organism(s), 196.0 mg/L, 96H.

Other Studies: CAS# 7681-52-9:

LC50, Rainbow trout (Oncorhynchus mykiss), 59.00 ug/L, 96H

LC50, Water Flea (Daphnia magna), 32.00 ug/L, 48H LC50, Bleak (Alburnus alburnus), 30000 - 35000 ug/L, 96H

Persistence and

No data available.

Degradability:

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

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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):

Corrosive Liquid, Basic, Inorganic, N.O.S. (Potassium Hydroxide, Sodium **DOT Proper Shipping Name:**

Hypochlorite)

DOT Hazard Class: CORROSIVE

Ш **UN/NA Number:** UN3266 **Packing Group:**



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)
1310-58-3	Potassium hydroxide	No	Yes 1000 LB	No
7681-52-9	Sodium hypochlorite	No	Yes 100 LB	No
1310-73-2	Sodium hydroxide	No	Yes 1000 LB	No

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:					
[] Yes [X] No	Explosive	[] Yes [X] No	Acute toxicity (any route of exposure)		
[] Yes [X] No	Flammable (gases, aerosols, liquid, or solid)	[X] Yes [] No	Skin Corrosion or Irritation		
[] Yes [X] No	Oxidizer (liquid, solid or gas)	[] Yes [X] No	Serious eye damage or eye irritation		
[] Yes [X] No	Self-reactive	[] Yes [X] No	Respiratory or Skin Sensitization		
[] Yes [X] No	Pyrophoric (liquid or solid)	[] Yes [X] No	Germ cell mutagenicity		
[] Yes [X] No	Pyrophoric gas	[] Yes [X] No	Carcinogenicity		
[] Yes [X] No	Self-heating	[] Yes [X] No	Reproductive toxicity		
[] Yes [X] No	Organic peroxide	[] Yes [X] No	Specific target organ toxicity (single or repeated exposure)		
[] Yes [X] No	Corrosive to metal	[] Yes [X] No	Aspiration Hazard		
[] Yes [X] No	Gas under pressure (compressed gas)	[] Yes [X] No	Simple Asphyxiant		
[] Yes [X] No	In contact with water emits flammable gas	[X] Yes [] No	(Health) Hazard Not Otherwise Classified (HNOC)		
[] Yes [X] No	Combustible Dust				
[] Yes [X] No	(Physical) Hazard Not Otherwise Classified (HNOC)				
CAS#	CAS # Hazardous Components (Chemical Name) Other US EPA		PA or State Lists		
1310-58-3	Potassium hydroxide	TSCA: Yes Title 8	- Inventory; CA PROP.65: No; CA TAC, Title 8:		
7681-52-9	Sodium hypochlorite	TSCA: Yes Title 8	- Inventory; CA PROP.65: No; CA TAC, Title 8:		

TAC: Cat. Ilb, Title 8

Sodium hydroxide

1310-73-2

TSCA: Yes - Inventory; CA PROP.65: No; CA TAC, Title 8:



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16. OTHER INFORMATION

Revision Date: 06/10/2020

Preparer Name: Jose Arias (562)697-1366

Hazard Rating System:

Flammability Instability
Health
NFPA: Special Hazard

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.

IN-FACT LK-5

(Formerly SHOTGUN LK-5) CHLORINATED FOAM CLEANER

DANGER

Causes severe skin burns and eye damage. Toxic to aquatic life.

Precautionary Statements: Do not breathe mist/vapors/spray. Wear protective gloves, protective clothing, eye protection, and face protection. Wash hands thoroughly after handling. Avoid release to the environment.

First Aid:

IF ON SKIN (or hair): Immediately remove all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or a doctor.

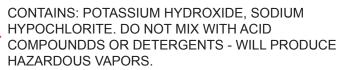
SPECIFIC TREATMENT: See Section 4 of the SDS to reference supplemental first aid instruction if immediate measures are required.

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

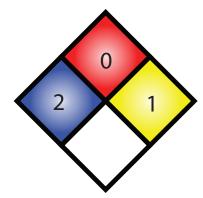
Supplemental Information: This product may be harmful if swallowed in large amounts. When entering a tank, even an empty one, follow all appropriate confined entry procedures (ANSI Z117.1).

KEEP OUT OF REACH OF CHILDREN.





Read safety data sheets for more detailed information. Contact your Shepard Bros., Inc. representative for more specific use instructions and recommended dispensing equipment.



PROPER SHIPPING NAME:

UN3266,

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (POTASSIUM HYDROXIDE, SODIUM HYPOCHLORITE), 8, PGII

PRODUCT ID:

BATCH NO.:

NET CONTENTS:



503 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, **InFact LK-5**, is safe and suitable as a general cleaning agent on all surfaces or for use with steam or mechanical cleaning devices in all departments of establishments processing food for human or animal consumption.

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 must be used, handled and stored in a manner that will not adulterate food products. Before using this compound, food products and packaging materials must be removed from the room or carefully protected. After using this compound, surfaces must be thoroughly rinsed with potable water. This product must always be used according to applicable label directions.

Sincerely,

Jose Arias

Director of Compliance & Regulatory Affairs

Shepard Bros., Inc.



Shepard Bros., Inc. 503 S. Cypress St. La Habra, CA 90631 SHEPARD BROS. (562) 697-1366

In-Fact LK-5 **Chlorinated Cleaner Test Kit** SBRTK5000-Z

- 1. Fill test tube (0701) with 5 mL or 20 mL of sample water.
- 2. Add 5 drops of Sodium Thiosulfate 0.0365N (ST2970), and mix.
- 3. Add 3 drops of Phenolphtalein indicator (PH1605), mix (solution will turn pink).
- 4. Add Sulfuric Acid 1.0 N (SA1625) drop-wise while swirling until the sample color turns clear. Count the number of drops. Hold bottle vertically.

5. For a 5 mL Sample:

number of drops x 320 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops x = 0.64 = to obtain % product in solution (by volume)

number of drops x 0.84 = to obtain fl-oz product/gallon

number of drops x 6400 to obtain ppm product in solution (by vol)

Example: 10% product in solution by volume = 16 drops

15% product in solution by volume = 24 drops

5 fl-oz/gal = 6 drops10 fl-oz/gal = 12 drops

For a 20 mL Sample:

number of drops x 80 = to obtain ppm active alkalinity as Sodium Hydroxide (by weight)

number of drops x = 0.167 = to obtain % product in solution (by volume)

number of drops x 0.250 = to obtain fl-oz product/gallon

number of drops x 1670 to obtain ppm product in solution (by vol)

Example: 1% product in solution by volume = 6 drops

1 fl oz/gal = 4 drops2 fl oz/gal = 8 drops

NOTE: For accuracy and consistency hold the dropper bottle in a vertical position during the titration.

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