



LIFT OFF

Safety Data Sheet

Revision Date: 1/4/2021

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifier

Trade Name LIFT OFF
Product Form Mixture
Product Code 10-10085

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of Product Acidic Presoak

1.3 Details of the Supplier of the safety data sheet

ChemQuest Inc.
21365 Hamburg Ave.
Lakeville, MN 55024
(877)437-3478
infocq@chemquestinc.com

1.4 Emergency telephone number

Emergency Number ChemTrec 1-800-424-9300

SECTION 2: Hazards Identification

2.1 Classification of the substance

Classification

<u>Hazard Code</u>	<u>Hazard Class</u>	<u>Hazard Category</u>
H314	Skin corrosion/irritation	1B
H351	Carcinogenicity	2
H402	Hazardous to the aquatic environment, acute toxicity	3
H412	Hazardous to the aquatic environment, chronic toxicity	3

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFEETY PRACTICES

2.2 Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US): **Danger**

Hazard Statements (GHS-US):

H314: Causes severe skin burns and eye damage
H351: Suspected of causing cancer
H402: Harmful to aquatic life
H412: Harmful to aquatic life with long lasting effects

Precautionary Statements (GHS-US):

P201: Obtain special instructions before use
P202: Do not handle until all safety precautions have been read and understood
P260: Do not breathe dust/fumes/gas/mist/vapors/spray
P264: Wash thoroughly after handling
P273: Avoid release into the environment
P280: Wear protective gloves/protective clothing/eye protection/face protection
P310: Immediately call a POISON CENTER or doctor/physician
P321: Specific treatment (see section 4)
P363: Wash contaminated clothing before reuse

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P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313: IF exposed or concerned: Get medical advice/attention
P405: Store locked up
P501: Dispose of contents/container in accordance with local, state and federal authorities.

2.3 Other Hazards

No additional information available

2.4 Unknown acute toxicity (GHS-US)

No Data Available

SECTION 3: Composition/Information on Ingredients

3.1 Substance

Not applicable

3.2 Mixture

Ingredient Name	CAS #	Composition
Water	7732-18-5	50-75%
Sulfuric Acid	7664-93-9	5-10%
2-butoxyethanol	111-76-2	5-10%
Phosphoric acid	7664-38-2	5-10%
Sodium dodecylbenzenesulfonic acid	85536-14-7	1-5%
Sulfonic acids, C14-16-alkane hydroxy and C14-16 alkene, sodium	68439-57-6	1-5%
Sodium xylene sulphonate	1300-72-7	1-5%
Cocoamidopropyl hydroxysultaine	68139-30-0	1-5%
Proprietary Surfactant	Proprietary	1-5%

SECTION 4: First Aid Measures

4.1 Description of first aid measures

First-Aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-Aid after inhalation	IF INHALED. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Use artificial respiration and oxygen if needed. If irritation persists, seek medical attention.
First-Aid after skin contact	IF ON SKIN. IF ON SKIN (or hair). Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician. Immediately rinse with plenty of water (for at least 15 minutes).
First-Aid after eye contact	IF IN EYES. Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). If irritation persists, seek medical attention.
First-Aid after ingestion	IF SWALLOWED. Rinse mouth. Do NOT induce vomiting. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head below hips to prevent breathing vomit into lungs. Call physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/injuries	Causes severe skin burns and eye damage. Suspected of causing cancer.
Symptoms/injuries after inhalation	May cause headache, nausea and irritation of respiratory tract.
Symptoms/injuries after skin contact	Causes severe skin burns and eye damage.
Symptoms/injuries after eye contact	Causes severe skin burns and eye damage.
Symptoms/injuries after ingestion	May cause gastrointestinal irritation, nausea, vomiting, and diarrhea if swallowed.
Chronic symptoms	No data available.

4.3 Indication of immediate medical attention and special treatment needed

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No additional information available

SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray.

5.2 Special hazards arising from the substance or mixture

Fire Hazard The product is not flammable.

Explosion Hazard The product is not explosive.

Reactivity Concentrated solution contact with metals will produce hydrogen gas.

5.3 Special hazards arising from the substance or mixture

Firefighting instructions Do not dispose of fire-fighting water in the environment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures Ventilate area. Avoid breathing vapors, mist or gas. Spill should be handled by trained clean-up crews. For personal protection see Section 8.

6.1.1 For non-emergency personnel

Protective equipment Wear Protective equipment as described in Section 8.

Emergency procedures Contain the spill. Do not let product enter drains. Remove unnecessary personnel.

6.1.2 For emergency responders

Protective equipment Wear Protective equipment as described in Section 8.

6.2 Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3 Methods and material for containment and cleaning up

For containment Prevent entry to sewers and public waters. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4 reference to other sections

No additional information available.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Precautions for safe handling Do not handle until all safety precautions have been read and understood. Wear proper safety equipment including chemically resistant gloves and safety glasses or goggles. Use with adequate ventilation. Wash thoroughly after handling. Do not get in eyes or on skin. Do not breathe mist or vapor. Do not swallow. Store between 50 F & 100 F. Keep separate from incompatible materials.

7.2 Conditions for safe storage, including and incompatibilities

Storage conditions Store locked up. Store in approved containers only. Keep container in a cool, well ventilated place away from heat sources and incompatible materials (See Section 10.5). Keep container tightly closed.

7.3 Specific end uses

No additional information

SECTION 8: Exposure Controls/Personal Protection

8.1 control parameters

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No OSHA and ACGIH PEL's or TLV's for the listed ingredients of this product unless listed stated below:

Sulfuric acid, CAS # 7664-93-9			
OSHA PEL (TWA)	OSHA PEL (STEL)	OSHA PEL (Ceiling)	ACGIH-TLV
1 mg/m3	Not Established	Not Established	0.2 mg/m3 (TWA)

2-Butoxyethanol, CAS # 111-76-2			
OSHA PEL (TWA)	OSHA PEL (STEL)	OSHA PEL (Ceiling)	ACGIH-TLV
50 ppm	Not Established	Not Established	20 ppm (TWA)

Phosphoric acid, CAS # 7664-38-2			
OSHA PEL (TWA)	OSHA PEL (STEL)	OSHA PEL (Ceiling)	ACGIH-TLV
1 mg/m3	Not Established	Not Established	1 mg/m3 (TWA),3 mg/m3(STEL)

8.2 Exposure Controls

Personal protective equipment	Protective safety glasses or goggles. Chemically resistant gloves. Protective clothing. Possibly a face shield and or respiratory protection of the dependent type.
Hand protection	Chemical resistant gloves.
Eye protection	Use chemical resistant safety glasses or goggles. A face shield should be worn when the possibility exists for eye or face contact due to spraying liquid or airborne particles.
Skin and body protection	Wear long sleeves. Wear suitable protective clothing. Possibly a face shield.
Respiratory protection	Where excessive vapor, mist, or dust may result, use approved respiratory protection equipment.

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Tinted Liquid
Color	Straw
Odor	None
Odor threshold	No data available
pH	1.5
Relative Evaporation rate (butyl	No data Available
Melting point	No data Available
Freezing point	No data Available
Boiling point	No data Available
Flash point	No Data Available
Self ignition point	No data Available
Decomposition temperature	No data Available
Flammability (solid, gas)	No data Available
Vapor pressure	No data Available
Relative vapor density at 20° C	No data Available
Relative Density	1.094 g/ml
Solubility	Water soluble
Log Pow	No data Available
Log Kow	No data Available
Viscosity: Kinematic	No data Available
Viscosity: dynamic	No data Available
Explosive properties	No data Available
Oxidizing properties	No data Available
Explosive Limits	No data Available

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9.2 Exposure Controls

No additional information available

SECTION 10: Stability and reactivity

10.1 Reactivity

Contact with reactive metals (e.g. aluminum) may result in the generation of hydrogen gas.

10.2 Chemical Stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

Corrosive in contact with metals. Contact with metallic substances may release flammable hydrogen gas. Contact with strong Bases will cause excessive heat and splattering.

10.4 Conditions to avoid

None known

10.5 Incompatible Materials

Avoid contact with: bases, water, amines, metals, ammonia, lithium, reducers, halogens, oxidizers, chlorides, strong acids, strong bases, acid chlorides, stainless steel, organic materials, strong reducing agents, and sodium tetrahydroborate

10.6 Hazardous decomposition products

Thermal decomposition can result in: toxic fumes, hydrocarbons, carbon oxides, sulfur oxides, nitrogen oxides, irritating fumes, hydrogen cyanide, and hydrogen sulfide

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Oral LD50: > 2000 mg/kg (rat) Calculated

Dermal LD50: > 2000 mg/kg (rabbit) Calculated

Inhalation LD50: > 5 mg/l (Dust/mist (Rat)) Calculated

Skin Corrosion/irritation Causes severe skin burns and eye damage

Serious eye damage/irritation Causes severe skin burns and eye damage

Respiratory or skin sensitization Not Classified

Germ cell mutagenicity Not Classified

Carcinogenicity Suspected of causing cancer. 1,4-Dioxane, CAS# 123-91-1, IRAC Group 2B, Possibly carcinogenic to humans, Trace% by wt. /

Reproductive toxicity Not Classified

Specific organ toxicity single exposure Not Classified

Specific organ toxicity repeated exposure Not Classified

Aspiration hazard Not Classified

Symptoms/injuries after inhalation See Section 4

Symptoms/injuries after skin contact See Section 4

Symptoms/injuries after eye contact See Section 4

Symptoms/injuries after ingestion See Section 4

Chronic symptoms Not Classified

SECTION 12: Ecological information

12.1 Toxicity

No Data

12.2 Persistence and degradability

No Data

12.3 Bioaccumulative potential

No Data

12.4 Mobility in soil

No Data

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12.5 Other adverse effect

No Data

SECTION 13: Disposal Considerations

13.1 Waste Treatment methods

Waste treatment methods	Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without NPDES permit.
Waste disposal recommendations	Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released to the environment.

SECTION 14: Transportation information

14.1 UN number, proper shipping name, class and packaging groups.

Domestic Ground Non-Bulk Shipments

UN1760, CORROSIVE LIQUIDS, N.O.S. (SULFURIC ACID/PHOSPHORIC ACID) 8, II

14.2 Additional information

Not available

SECTION 15: Regulatory Information

15.1 Federal regulations

TSCA Inventory: The components of this product are listed.

SARA 311/312 Hazard category (40 CFR 370.2): Acute and chronic health hazard.

SARA 313 Toxic Release Reporting (40CFR Part 372): 2-butoxyethanol, CAS# 111-76-2, 5-10% by wt./ Sulfuric Acid, CAS# 7664-93-9, 5-10% by wt.

SARA 302 EHS Emergency Planning (40CFR Part 355): Sulfuric Acid, CAS# 7664-93-9, RQ 1,000 lbs.

SARA 304 EHS Emergency Planning (40CFR Part 355): Sulfuric Acid, CAS# 7664-93-9, RQ 1,000 lbs.

CERCLA Section 102-103 HS Released Reporting (40 CFR part 302-102a): Phosphoric acid, CAS# 7664-38-2, RQ 5,000 lbs./ 2-butoxyethanol, CAS# 111-76-2, RQ no listed value, see 50 Federal Register 13456 for RQ lbs./ Sulfuric Acid, CAS# 7664-93-9, RQ 1,000 lbs.

15.2.1 International regulations

No Data

15.2.2 National regulations

No Data

15.3 State Regulations

California Prop. 65

Approximate quantities by weight

- Strong inorganic acid mists containing sulfuric acid/ cancer / CAS# 7664-93-9/ 5-10% by wt.
- Ethylene glycol (ingested)/ developmental/ CAS# 107-21-1/ Trace
- Cumene/ cancer / CAS# 98-82-8/ Trace
- Benzene/ cancer/ CAS# 71-43-2/ Trace
- Benzene/ developmental, male reproductive / CAS# 71-43-2/ Trace
- Toluene/ developmental/ CAS# 108-88-3/ Trace
- Toluene/ female / CAS# 108-88-3/ Trace
- Ethylbenzene/ cancer / CAS# 100-41-4/ Trace
- 1,4-Dioxane/ cancer/ CAS# 123-91-1/ Trace

New Jersey Right to Know

Approximate quantities by weight

- SULFURIC ACID/ CAS# 7664-93-9/ 5-10% by wt.
- 2-BUTOXY ETHANOL/ CAS# 111-76-2/ 5-10% by wt.
- PHOSPHORIC ACID/ CAS# 7664-38-2/ 5-10% by wt.

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- ETHYLENE GLYCOL/ CAS# 107-21-1/ Trace
- CUMENE/ CAS# 98-82-8/ Trace
- BENZENE/ CAS# 71-43-2/ Trace
- TOLUENE/ CAS# 108-88-3/ Trace
- ETHYL BENZENE/ CAS# 100-41-4/ Trace
- 1,4-DIOXANE/ CAS# 123-91-1/ Trace

SECTION 16: Other Information

Other information	None
NFPA	
NFPA Health Hazard	3
NFPA Fire Hazard	0
NFPA Reactivity	1
HMIS	
Health	3
Flammability	0
Physical	1
Personal Protection	X

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