

## SECTION 1: IDENTIFICATION

### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** ARMAKLEEN™ LF-37 Concentrate

**SDS No:** 820476

### 1.2. Intended Use of the Product

Industrial Bio Based Cleaner. For professional use only.

### 1.3. Name, Address, and Telephone of the Responsible Party

#### MANUFACTURER

Safety-Kleen Systems, Inc.  
42 Longwater Drive  
Norwell, MA 02061-9149 U.S.A.  
Phone: 1-800-669-5740  
[www.safety-kleen.com](http://www.safety-kleen.com)

#### SUPPLIER (in the U.S.A.)

Safety-Kleen Systems, Inc.  
42 Longwater Drive  
Norwell, MA 02061-9149  
U.S.A.  
Phone: 1-800-669-5740  
[www.safety-kleen.com](http://www.safety-kleen.com)

#### SUPPLIER (in Canada)

Safety-Kleen Canada Inc.  
25 Regan Road  
Brampton, Ontario L7A 1B2  
Canada  
Phone: 1-800-669-5740

### 1.4. Emergency Telephone Number

**Emergency Number** : Medical: 1-888-234-1828 Chemical: 1-800-255-3924 (VelocityEHS)

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the Substance or Mixture

#### GHS-US/CA Classification

Corrosive to metals Category 1	H290
Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation Category 1	H318
Reproductive toxicity Category 2	H361

### 2.2. Label Elements

#### GHS-US/CA Labeling

#### Hazard Pictograms (GHS-US/CA)



#### Signal Word (GHS-US/CA)

: Danger

#### Hazard Statements (GHS-US/CA)

: H290 - May be corrosive to metals.  
H315 - Causes skin irritation.  
H318 - Causes serious eye damage.  
H361 - Suspected of damaging fertility or the unborn child.

#### Precautionary Statements (GHS-US/CA)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P234 - Keep only in original container.  
P263 - Avoid contact during pregnancy/while nursing.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P310 - Immediately call a POISON CENTER or doctor.  
P321 - Specific treatment (see section 4 on this SDS).  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.

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- P390 - Absorb spillage to prevent material-damage.
- P391 - Collect spillage.
- P405 - Store locked up.
- P406 - Store in corrosive resistant container with a resistant inner liner.
- P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No additional information available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

Name	Synonyms	Product Identifier	% *	GHS Ingredient Classification
Water	water / AQUA	(CAS-No.) 7732-18-5	45 - 70	Not classified
Trisodium citrate dihydrate	1,2,3-Propanetricarboxylic acid, 2-hydroxy-, trisodium salt, dihydrate / Citric acid, trisodium salt, dihydrate / 1,2,3-Propanetricarboxylic acid, 2-hydroxy-, sodium salt, hydrate (1:3:2) / Sodium citrate, dihydrate / Trisodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate / Sodium citrate dihydrate / Trisodium citrate / risodium 2-hydroxypropane-1,2,3-tricarboxylate dihydrate / trisodium citrate dihydrate	(CAS-No.) 6132-04-3	7 - 13	Met. Corr. 1, H290 Comb. Dust
Sodium n-octanoate	Sodium caprylate / Caprylic acid sodium salt / Octanoate, sodium / Octanoic acid, sodium salt / Sodium octanoate / Sodium octanate / Octanoic acid, sodium salt (1:1) / SODIUM CAPRYLATE	(CAS-No.) 1984-06-1	5 - 10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether	Oxirane, methyl-, polymer with oxirane, monoether with 2-ethylhexanol / Oxirane, 2-methyl-, polymer with oxirane, mono(2-ethylhexyl) ether / PPG-9-Ethylhexeth-5 / 2-Ethylhexan-1-ol, ethoxylated propoxylated / PEG-3 PPG-7 ETHYLHEXYL ETHER / PEG-6 PPG-7 ETHYLHEXYL ETHER / PPG-9 ETHYLHEXETH-5 / PEG-14 PPG-7 ethylhexyl ether	(CAS-No.) 64366-70-7	1 - 5	Eye Irrit. 2A, H319 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
9-Decenamamide, N,N-dimethyl-	N,N-Dimethyl dec-9-enamide / DIMETHYL 9-DECENAMIDE	(CAS-No.) 1356964-77-6	1 - 5	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Alcohols, C6-12, ethoxylated	C6-12 ethoxylated alcohols / Ethoxylated alcohols(C6-12)	(CAS-No.) 68439-45-2	1 - 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 3, H402
Alcohols, C12-14,	Alcohols, C12-14, ethoxylated,	(CAS-No.) 68439-51-0	1 - 5	Skin Irrit. 2, H315

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ethoxylated propoxylated	propoxylated / PPG-5-Laureth-5 / PPG-5-LAURETH-5 / PPG-2-laureth-12 / PPG-2-laureth-5 / PPG-2-laureth-8 / PPG-4-laureth-15 / Dodecanol / Ethoxylated or propoxylated aliphatic alcohol (C=12-14) / Ethoxylated propoxylated alcohols(C12-14) / C12-14 Ethoxylated propoxylated alcohols / PPG-4-LAURETH-15 / PPG-2-LAURETH-8 / PPG-2-LAURETH-5 / PPG-2-LAURETH-12			Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Amines, tallow alkyl, ethoxylated	Ethoxylated tallow amine / Polyoxyethylene glycol tallow amine / PEG-15 TALLOW AMINE / Polyoxyethylene (15) tallow amine / Polyoxyethylated tallow amine / PEG-11 tallow amine / Imbentin TAM / PEG-11 TALLOW AMINE / PEG-2 TALLOW AMINE / PEG-20 TALLOW AMINE / PEG-22 TALLOW AMINE / PEG-25 TALLOW AMINE / PEG-30 TALLOW AMINE / PEG-7 TALLOW AMINE / Ethoxylated tallow alkylamines / Tallow amine ethoxylated / Polyoxyethylene tallow amine / Polyethoxylated tallow amine / PEG tallow amine / Tallow amine ethoxylate / Tallow amine, ethoxylated	(CAS-No.) 61791-26-2	3	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether	Alcohols, C8-10, ethers with polyethylene polypropylene glycol, monobenzyl ether	(CAS-No.) 68154-99-4	0.5 – 1.5	Skin Irrit. 2, H315 Eye Dam. 1, H318
Tolyl triazole	1H-Benzotriazole, 4(or 5)-methyl- / 1H-Benzotriazole, methyl- / Methyl-1H-benzotriazole / Tolyltriazole / 1H-Benzotriazole, 4 (or 5)-methyl- / 1H-Benzotriazole, 6(or 7)-methyl- / Tolyltriazole / 1H-Benzotriazole, 4(or 5)-methyl-, sodium salt / 6(or 7)-Methyl-1H-benzotriazole / tolyltriazole	(CAS-No.) 29385-43-1	0.1 - 1	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2B, H320 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Full text of H-statements: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%). The actual concentration of ingredient(s) is withheld as a trade secret in accordance with the Hazardous Products Regulations (HPR) SOR/2015-17 and 29 CFR 1910.1200.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** First aid personnel should wear appropriate protective equipment during any rescue. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. If exposed or concerned: Get medical advice/attention.

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**Eye Contact:** Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Suspected of damaging the unborn child. Causes skin irritation. Causes serious eye damage.

**Inhalation:** Prolonged exposure may cause irritation.

**Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Suspected of damaging the unborn child.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Contact with metallic substances may release flammable hydrogen gas.

**Reactivity:** May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Sodium oxides. Hydrogen cyanide.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water courses.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Collect spillage.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May be corrosive to metals.

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**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe vapors, mist, spray.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in corrosive resistant container with a resistant inner liner. Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

**Incompatible Materials:** Strong acids, strong bases, strong oxidizers. Metals. May be corrosive to metals.

### 7.3. Specific End Use(s)

Industrial Bio Based Cleaner. For professional use only.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. Safety glasses with side-shields.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Safety glasses with side-shields.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

Physical State	: Liquid
Appearance	: Pale yellow / clear
Odor	: Mild
Odor Threshold	: No data available
pH	: 10.5
Evaporation Rate	: No data available
Melting Point	: No data available
Freezing Point	: No data available
Boiling Point	: 212 °F (100 °C)
Flash Point	: No data available
Auto-ignition Temperature	: No data available
Decomposition Temperature	: No data available
Flammability	: Not applicable
Lower Flammable Limit	: No data available
Upper Flammable Limit	: No data available

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Vapor Pressure	: < 1 mm Hg at 20 °C (excludes water portion)
Relative Vapor Density at 20°C	: No data available
Relative Density	: 1.09 (Water = 1)
Specific Gravity	: No data available
Solubility	: Water: Complete
Partition Coefficient: N-Octanol/Water	: No data available
Viscosity	: Similar to Water
VOC content	: 11 g/l (EPA Method 24)

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity:

May be corrosive to metals. Contact with metals may evolve flammable hydrogen gas.

### 10.2. Chemical Stability:

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

### 10.3. Possibility of Hazardous Reactions:

Hazardous polymerization will not occur.

### 10.4. Conditions to Avoid:

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible Materials:

Strong acids, strong bases, strong oxidizers. Metals. May be corrosive to metals.

### 10.6. Hazardous Decomposition Products:

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Sodium oxides. Hydrogen cyanide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

#### LD50 and LC50 Data:

No additional information available

**Skin Corrosion/Irritation:** Causes skin irritation.

**pH:** 10.5

**Eye Damage/Irritation:** Causes serious eye damage.

**pH:** 10.5

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Reproductive Toxicity:** Suspected of damaging the unborn child.

**Specific Target Organ Toxicity (Single Exposure):** Not classified

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Prolonged exposure may cause irritation.

**Symptoms/Injuries After Skin Contact:** Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Suspected of damaging the unborn child.

### 11.2. Information on Toxicological Effects - Ingredient(s)

#### LD50 and LC50 Data:

<b>Tolyl triazole (29385-43-1)</b>	
LD50 Oral Rat	675 mg/kg
LD50 Dermal Rabbit	> 4000 mg/kg
LC50 Inhalation Rat	> 1.73 mg/l (Exposure time: 1 h)
<b>Alcohols, C6-12, ethoxylated (68439-45-2)</b>	
ATE US/CA (oral)	500.00 mg/kg body weight

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<b>Amines, tallow alkyl, ethoxylated (61791-26-2)</b>	
LD50 Oral Rat	500 mg/kg
<b>9-Decenamamide, N,N-dimethyl- (1356964-77-6)</b>	
LD50 Oral Rat	550 mg/kg
LD50 Dermal Rat	> 5000 mg/kg
<b>Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)</b>	
LD50 Oral Rat	3530 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

<b>Tolyl triazole (29385-43-1)</b>	
LC50 Fish 1	180 mg/l
LC50 Other Aquatic Organisms 1	55 mg/l
NOEC Chronic Crustacea	10 mg/l
NOEC Chronic Algae	1.18 mg/l
<b>Amines, tallow alkyl, ethoxylated (61791-26-2)</b>	
LC50 Fish 1	0.18 – 0.99 mg/l
EC50 - Crustacea [1]	0.47 mg/l Daphnia
EC50 Other Aquatic Organisms 1	0.008 mg/l Algae
<b>9-Decenamamide, N,N-dimethyl- (1356964-77-6)</b>	
LC50 Fish 1	> 7.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])

### 12.2. Persistence and Degradability

<b>ARMAKLEEN™ LF-37 Concentrate</b>	
Persistence and Degradability	May cause long-term adverse effects in the environment.

### 12.3. Bioaccumulative Potential

<b>ARMAKLEEN™ LF-37 Concentrate</b>	
Bioaccumulative Potential	Not established.
<b>Tolyl triazole (29385-43-1)</b>	
Partition coefficient n-octanol/water (Log Pow)	(1.079 - <=1.083 - at 25 °C (at pH 7-<=8)
<b>9-Decenamamide, N,N-dimethyl- (1356964-77-6)</b>	
Partition coefficient n-octanol/water (Log Pow)	3.17 (at 30 °C (at pH 6.69)

### 12.4. Mobility in Soil

No additional information available

### 12.5. Other Adverse Effects

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Ecology - Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

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## SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

### 14.1. In Accordance with DOT

**Proper Shipping Name** : CORROSIVE LIQUIDS, N.O.S. (Contains: Trisodium citrate dihydrate)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Packing Group** : III  
**Marine Pollutant** : Marine pollutant  
**ERG Number** : 154



### 14.2. In Accordance with IMDG

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Contains: Trisodium citrate dihydrate)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Packing Group** : III  
**EmS-No. (Fire)** : F-A  
**EmS-No. (Spillage)** : S-B  
**Marine pollutant** : Marine pollutant



### 14.3. In Accordance with IATA

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Contains: Trisodium citrate dihydrate)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Packing Group** : III  
**ERG Code (IATA)** : 8L



### 14.4. In Accordance with TDG

**Proper Shipping Name** : CORROSIVE LIQUID, N.O.S. (Contains: Trisodium citrate dihydrate)  
**Hazard Class** : 8  
**Identification Number** : UN1760  
**Label Codes** : 8  
**Packing Group** : III  
**Marine Pollutant (TDG)** : Marine pollutant



## SECTION 15: REGULATORY INFORMATION

### 15.1. US Federal Regulations

<b>ARMAKLEEN™ LF-37 Concentrate</b>	
<b>SARA Section 311/312 Hazard Classes</b>	Physical hazard - Corrosive to metals Health hazard - Reproductive toxicity Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation
<b>Tolyl triazole (29385-43-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	TP - TP - indicates a substance that is the subject of a proposed Section 4 test rule under TSCA.
<b>Sodium n-octanoate (1984-06-1)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>Alcohols, C6-12, ethoxylated (68439-45-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the



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	Chemical Data Reporting Rule, (40 CFR 711).
<b>Amines, tallow alkyl, ethoxylated (61791-26-2)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>9-Decenamamide, N,N-dimethyl- (1356964-77-6)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	PMN - PMN - indicates a commenced PMN substance.
<b>Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether (68154-99-4)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether (64366-70-7)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	PMN - PMN - indicates a commenced PMN substance. XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).
<b>Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)</b>	
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active	
<b>EPA TSCA Regulatory Flag</b>	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

### 15.2. US State Regulations

Neither this product nor its chemical components appear on any US state lists, or its chemical components are not required to be disclosed.

### 15.3. Canadian Regulations

<b>Tolyl triazole (29385-43-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Sodium n-octanoate (1984-06-1)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Alcohols, C6-12, ethoxylated (68439-45-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Amines, tallow alkyl, ethoxylated (61791-26-2)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>9-Decenamamide, N,N-dimethyl- (1356964-77-6)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether (68154-99-4)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Oxirane, methyl-, polymer with oxirane, mono(2-ethylhexyl) ether (64366-70-7)</b>
Listed on the Canadian DSL (Domestic Substances List)
<b>Alcohols, C12-14, ethoxylated propoxylated (68439-51-0)</b>
Listed on the Canadian DSL (Domestic Substances List)

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

<b>Date of Preparation or Latest Revision</b>	: 01/25/2025
<b>Revision</b>	:
<b>Indication of changes</b>	: Update to logo and Manufacturer information.
<b>Other Information</b>	: This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

### GHS Full Text Phrases:

H226	Flammable liquid and vapor
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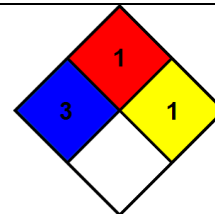
# ARMAKLEEN™ LF-37 Concentrate

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

H290	May be corrosive to metals
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child

- NFPA Health Hazard** : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
- NFPA Fire Hazard** : 1 - Materials that must be preheated before ignition can occur.
- NFPA Reactivity Hazard** : 1 - Materials that in themselves are normally stable but can become unstable at elevated temperatures and pressures.



*The information contained herein is correct to the best of our knowledge, information, and belief and is designed only as guidance for the handling, use, processing, storage, transportation, disposal, and release of the product. User assumes all risks incident to use of this product and shall determine the quality and suitability of the product for its use. Supplier offers no warranty, express or implied, whatsoever, including warranties of merchantability or fitness for a particular purpose or otherwise, and specifically disclaims any and all liability for incidental, consequential, or other damages arising out the use or misuse of the product. The information provided relates only to the specific material provided and may not be valid if used in combination with any other materials or process, unless specified herein.*

NA GHS SDS 2015 (Can, US)