



Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

## SAFETY DATA SHEET

# SafeClean Plus Liquid

### SECTION 1: IDENTIFICATION

#### 1.1. Product identifier

*Trade name:* SafeClean Plus Liquid

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

▼ *Relevant identified uses of the substance or mixture:* Cleaning product  
Restricted to professional users.

*Uses advised against:* None known.

#### 1.3. Details of the supplier of the safety data sheet

▼ *Company and address:* Urnex Brands, LLC  
755 Tri-State Parkway  
Gurnee, IL 60031  
United States  
+1 (800) 837-8140  
www.urnex.com

*Contact person:* Customer support

*E-mail:* info@urnex.com

*SDS date:* 2/23/2024

*SDS Version:* 2.0

*Date of previous version:* 5/4/2023 (1.0)

#### 1.4. Emergency telephone number

Infotrac +1 (352) 323-3500

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case

See also section 4 "First aid measures".

### SECTION 2: HAZARD(S) IDENTIFICATION

#### OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### 2.1. Classification of the substance or mixture

Skin Irrit. 2; H315, Causes skin irritation.

Eye Irrit. 2; H319, Causes serious eye irritation.

#### 2.2. Label elements

▼ *Hazard pictogram(s):*





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▼ **Signal word:**

Warning

▼ **Hazard statement(s):**

Causes skin irritation. (H315)  
Causes serious eye irritation. (H319)

**Precautionary statement(s):**

**General:**

-

▼ **Prevention:**

Wash hands thoroughly after handling.  
(P264)

Wear eye protection/protective gloves. (P280)

▼ **Response:**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
(P305+P351+P338)

If eye irritation persists: Get medical advice/attention. (P337+P313)

IF ON SKIN: Wash with plenty of water and soap. (P302+P352)

Take off contaminated clothing and wash it before reuse. (P362+P364)

▼ **Storage:**

-

▼ **Disposal:**

-

**Additional labelling:**

Not applicable.

### 2.3. Other hazards

▼ **Additional warnings:**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. ▼ Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Citric acid	CAS No.: 77-92-9	40-60%	Eye Irrit. 2, H319 STOT SE 3, H335	
Aluminium chloride hexahydrate	CAS No.: 7784-13-6	1-3%	Skin Irrit. 2, H315 Eye Irrit. 2, H319	
potassium hydroxide	CAS No.: 1310-58-3	1-3%	Acute Tox. 4, H302 Skin Corr. 1A, H314	
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides	CAS No.: 68424-95-3	<0.25%	Acute Tox. 3, H301 Skin Corr. 1B, H314 Eye Dam. 1, H318	[19]



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Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

## Other information

[19] UVCB = Unknown or variable composition, complex reaction products or of biological materials

## SECTION 4: FIRST-AID MEASURES

### 4.1. ▼ Description of first aid measures

*General information:*

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

*Inhalation:*

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

▼ *Skin contact:*

IF ON SKIN: Wash with plenty of water and soap.

Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

▼ *Eye contact:*

If in eyes: Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Remove contact lenses. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

▼ *Ingestion:*

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.

In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking



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on vomited material.

*Burns:*

Not applicable.

#### **4.2. ▼ Most important symptoms and effects, both acute and delayed**

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### **4.3. ▼ Indication of any immediate medical attention and special treatment needed**

If eye irritation persists: Get medical advice/attention.

#### **Information to medics**

Bring this safety data sheet or the label from this product.

### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing media**

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.  
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### **5.2. Special hazards arising from the substance or mixture**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

Some metal oxides

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### **6.1. ▼ Personal precautions, protective equipment and emergency procedures**

Avoid direct contact with spilled substances.

Contaminated areas may be slippery.

#### **6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

#### **6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### **6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.



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## SECTION 7: HANDLING AND STORAGE

### 7.1. ▼ Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:*

Keep only in original packaging.

*Storage temperature:*

Dry, cool and well ventilated

*Incompatible materials:*

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

### 8.2. ▼ Exposure controls

Apply general control to prevent unnecessary exposure

*General recommendations:*

Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:*

There are no exposure scenarios implemented for this product.

*Exposure limits:*

Occupational exposure limits have not been defined for the substances in this product.

*Appropriate technical measures:*

Apply standard precautions during use of the product. Avoid inhalation of vapours.

▼ *Hygiene measures:*

Take off contaminated clothing and wash it before reuse.

▼ *Measures to avoid environmental exposure:*

No specific requirements.

### Individual protection measures, such as personal protective equipment

▼ *Generally:*

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

*Respiratory Equipment:*

Type	Class	Colour	Standards	
Respiratory protection is not needed in the event of adequate ventilation.				



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*Skin protection:*

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Gloves	-	-	EN374	

*Eye protection:*

Type	Standards	
Safety glasses	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Blue
<i>Odour:</i>	Characteristic
<i>Odour threshold (ppm):</i>	No data available
<i>pH:</i>	0.78
<i>pH in solution:</i>	2.4 (1%)
<i>Density (g/cm<sup>3</sup>):</i>	Testing not relevant or not possible due to the nature of the product. -
<i>Relative density:</i>	1.33
<i>Kinematic viscosity:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Particle characteristics:</i>	Does not apply to liquids.

### Phase changes

<i>Melting point (°F):</i>	Testing not relevant or not possible due to the nature of the product.
<i>▼ Softening point/range (waxes and pastes) (°F):</i>	Does not apply to liquids.
<i>Boiling point (°F):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Vapour pressure:</i>	Testing not relevant or not possible due to the nature of the product.



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*Relative vapour density:*

Testing not relevant or not possible due to the nature of the product.

*Decomposition temperature (°F):*

Testing not relevant or not possible due to the nature of the product.

## Data on fire and explosion hazards

*Flash point (°F):*

Testing not relevant or not possible due to the nature of the product.

*Flammability (°F):*

Testing not relevant or not possible due to the nature of the product.

*Auto-ignition temperature (°F):*

Testing not relevant or not possible due to the nature of the product.

*Explosion limits (% v/v):*

Testing not relevant or not possible due to the nature of the product.

## Solubility

*Solubility in water:*

Testing not relevant or not possible due to the nature of the product.

*n-octanol/water coefficient (LogKow):*

Testing not relevant or not possible due to the nature of the product.

*Solubility in fat (g/L):*

Testing not relevant or not possible due to the nature of the product.

## 9.2. Other information

*Other physical and chemical parameters:*

No data available.

*Oxidizing properties:*

Testing not relevant or not possible due to the nature of the product.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: TOXICOLOGICAL INFORMATION



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## 11.1. Information on toxicological effects

### Acute toxicity

Product/substance	Citric acid
Test method:	OECD 401
Species:	Mouse
Route of exposure:	Oral
Test:	LD50
Result:	5400 mg/kgbw

Product/substance	Citric acid
Test method:	OECD 401
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	11700 mg/kgbw

Product/substance	Citric acid
Species:	Rat
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kgbw

Product/substance	Aluminium chloride hexahydrate
Test method:	OECD 401
Species:	Rat, female
Test:	LD50
Result:	3470 mg/kg

Product/substance	Aluminium chloride hexahydrate
Test method:	OECD 401
Species:	Rat, male
Test:	LD50
Result:	3450 mg/kg

### ▼ Skin corrosion/irritation

Product/substance	Citric acid
Test method:	OECD 404
Species:	Rabbit
Result:	No adverse effect observed (Not irritating)

Product/substance	Aluminium chloride hexahydrate
Causes skin irritation.	

### ▼ Serious eye damage/irritation

Product/substance	Citric acid
Test method:	OECD 405
Species:	Rabbit
Result:	Adverse effect observed (Irritating)

Product/substance	Aluminium chloride hexahydrate
Causes serious eye irritation.	

### Respiratory sensitisation

Based on available data, the classification criteria are not met.

### Skin sensitisation



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Based on available data, the classification criteria are not met.

#### ▼ Germ cell mutagenicity

Product/substance	Citric acid
Test method:	OECD 471
Species:	<i>S. typhimurium</i>
Conclusion:	No adverse effect observed

Product/substance	Citric acid
Test method:	OECD 475
Species:	Rat
Conclusion:	No adverse effect observed

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### ▼ STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### ▼ Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

#### Other information

None known.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Product/substance	Citric acid
Test method:	OECD 203
Species:	Fish, <i>Leuciscus idus</i>
Duration:	48 hours
Test:	LC50
Result:	440 mg/L

Product/substance	Citric acid
Species:	<i>Daphnia magna</i>
Duration:	24 hours
Test:	LC50
Result:	1535 mg/L

Product/substance	Citric acid
Species:	Algae, <i>Scenedesmus quadricauda</i>
Duration:	8 days
Test:	NOEC



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Result:	425 mg/L
Product/substance	Aluminium chloride hexahydrate
Species:	Fish, <i>Gambusia affinis</i>
Duration:	96 hours
Test:	LC50
Result:	27.1 mg/L
Product/substance	Aluminium chloride hexahydrate
Species:	Fish, <i>Oncorhynchus mykiss</i>
Duration:	96 hours
Test:	LC50
Result:	36.6 mg/L
Product/substance	Aluminium chloride hexahydrate
Species:	Fish, <i>Oncorhynchus mykiss</i>
Test:	NOEC
Result:	0.25 mg/L
Product/substance	Aluminium chloride hexahydrate
Species:	<i>Daphnia, Daphnia magna</i>
Duration:	48 hours
Test:	EC50
Result:	27.3 mg/L
Product/substance	Aluminium chloride hexahydrate
Species:	<i>Daphnia, Daphnia magna</i>
Duration:	21 days
Test:	NOEC
Result:	0.8 mg/L
Product/substance	Aluminium chloride hexahydrate
Species:	<i>Daphnia, Ceriodaphnia sp.</i>
Duration:	48 hours
Test:	EC50
Result:	7.4 mg/L
Product/substance	Aluminium chloride hexahydrate
Species:	Bacteria
Duration:	14 days
Test:	LC50
Result:	>1000 mg/L
Product/substance	Aluminium chloride hexahydrate
Species:	Bacteria
Test:	NOEC
Result:	100 mg/L

## 12.2. ▼ Persistence and degradability

Product/substance	Citric acid
Result:	100%
Conclusion:	Readily biodegradable
Test:	OECD 301 E



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#### **12.3. ▼ Bioaccumulative potential**

Based on available data, the classification criteria are not met.

#### **12.4. Mobility in soil**

No data available.

#### **12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

#### **12.6. Other adverse effects**

None known.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

#### **RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)**

None of the components are listed

#### **Specific labelling**

#### **Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

### **SECTION 14: TRANSPORT INFORMATION**

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

#### **▼ Additional information**

Not dangerous goods according to DOT, IATA and IMDG.

#### **14.6. Special precautions for user**

Not applicable.

#### **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

### **SECTION 15: REGULATORY INFORMATION**

#### **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

#### **15.2. ▼ U.S. Federal regulations**

*TSCA (the non-confidential portion):*

Citric acid is listed  
potassium hydroxide is listed



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*Clean Air Act:*

Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides is listed

*EPCRA Section 302:*

None of the components are listed

*EPCRA Section 304:*

None of the components are listed

*EPCRA section 313:*

None of the components are listed

▼ *CERCLA:*

potassium hydroxide is regulated with a Reportable Quantity (RQ) of: 1000 pounds

## ▼ State regulations

*California / Prop. 65:*

None of the components are listed

▼ *Massachusetts / Right To Know Act:*

potassium hydroxide is listed

▼ *New Jersey / Right To Know Act:*

potassium hydroxide / Substance number:

1571

potassium hydroxide is on the Special Health Hazard Substance List

▼ *New York / Right To Know Act:*

potassium hydroxide is listed

potassium hydroxide is regulated with a Reportable Quantity (RQ) of: 1000 pounds

potassium hydroxide is regulated with a Threshold Reporting Quantity (TRQ) of: 100 pounds

▼ *Pennsylvania / Right To Know Act:*

potassium hydroxide is listed

potassium hydroxide is hazardous to the environment (E)

### 15.4. Restrictions for application

Restricted to professional users.

### 15.5. Demands for specific education

No specific requirements.

### 15.6. Additional information

Not applicable.

### 15.7. Chemical safety assessment

No

### 15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H301, Toxic if swallowed.

H302, Harmful if swallowed.

H314, Causes severe skin burns and eye damage.



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H315, Causes skin irritation.  
H318, Causes serious eye damage.  
H319, Causes serious eye irritation.  
H335, May cause respiratory irritation.

### **The full text of identified uses as mentioned in section 1**

None known.

### **Abbreviations and acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists  
ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway  
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road  
ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
CAS = Chemical Abstracts Service  
CERCLA = Comprehensive Environmental Response Compensation and Liability Act  
DOT = Department of Transportation  
EINECS = European Inventory of Existing Commercial chemical Substances  
EPCRA = Emergency Planning and Community Right-To-Know Act  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HCIS = Hazardous Chemical Information System  
HNOC = Hazards Not Otherwise Classified  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NFPA = National Fire Protection Association  
NIOSH = National Institute for Occupational Safety and Health  
OECD = Organisation for Economic Co-operation and Development  
OSHA = Occupational Safety and Health Administration  
PBT = Persistent, Bioaccumulative and Toxic  
RCRA = Resource Conservation and Recovery Act  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
RRN = REACH Registration Number  
SARA = Superfund Amendments and Reauthorization Act  
SCL = A specific concentration limit.  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TSCA = The Toxic Substances Control Act  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative

### **Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).



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▼ **The safety data sheet is validated by**  
PurposeBuilt Brands Regulatory Team

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en