5010100 - KLEENLINE LAUNDRY SOUR SOFT

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SECTION 1: IDENTIFICATION

1.1 Product identifier: 5010100 - KLEENLINE LAUNDRY SOUR SOFT

Other means of identification:

Item Code (1.5 Gal.): KL-LASOURSOFT1.5

1.2 Recommended use of the chemical and restrictions on use:

Relevant uses (Consumer use):
- Detergent for cleaning clothes

Relevant uses (Professional users):
- Detergent for cleaning clothes

Relevant Use (Professional):
Neutralizing Softener for laundry.

Uses advised against:
- All uses not specified in this section or in section 7.3

1.3 Name, U.S. address, and U.S. telephone number of the chemical manufacturer, importer, or other responsible party:

BradyPLUS
7055 Lindell Road
89118 Las Vegas - NV - United States
Phone: (877) 788-PLUS
BradyPLUS.com

1.4 Emergency phone number: CHEMTREC: 01-800-424-9300

SECTION 2: HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture:

29 CFR 1910.1200:

Classification of the chemical in accordance with paragraph (d)(1)(i) of §1910.1200
Eye Dam. 1: Serious eye damage, Category 1, H318
Skin Corr. 1: Skin corrosion, Category 1, H314

2.2 Label elements:

29 CFR 1910.1200:

Danger

Hazard statements:

Skin Corr. 1: H314 - Causes severe skin burns and eye damage.

Precautionary statements:

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P264: Wash thoroughly after use.
P280: Wear protective gloves/protective clothing/eye protection/protective footwear.
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.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501: Dispose of the contents/containers according to the local, state and federal regulations.

Substances that contribute to the classification

Phosphoric acid

Additional labeling:

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SECTION 2: HAZARD(S) IDENTIFICATION (continued)

Keep out of the reach of children
Federal Hazardous Substances Act (FHSA) >> Corrosive
Causes Burns. Do not swallow. Do not get in eyes. Do not get on skin or clothing. Do not breathe fumes. Handle with care. Keep out of reach of children. Wear gloves and safety glasses. Use only in a well-ventilated area.
FIRST AID TREATMENT
If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes, rinse with water for 15 minutes. If on skin, rinse well with water. If on clothes, remove clothes. If breathed in, move person to fresh air.
Contains : Phosphoric acid.

2.3 Hazards not otherwise classified (HNOC):

Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Non-applicable

3.2 Mixtures:

Chemical description: Miscellaneous products

Components:

Remaining components are non-hazardous and/or present at amounts below reportable limits. The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.Therefore, in accordance with Appendix D to § 1910.1200, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 7732-18-5	**Water**	**25 - <50%**
CAS: 7664-38-2	**Phosphoric acid** Skin Corr. 1B: H314 - Danger	**25 - <50%**
CAS: 68410-69-5	**Poly(oxy-1,2-ethanediyl), .alpha.-[2-[bis(2-aminoethyl)methylammonio]ethyl]-.omega.-hydroxy-, N,N´-ditallow acyl derivs., Me sulfate** Eye Irrit. 2A: H319; Skin Irrit. 2: H315 - Warning	**10 - <25%**
CAS: 67-63-0	**propan-2-ol** Eye Irrit. 2A: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	**1 - <2.5%**
CAS: 57-55-6	**Propane-1,2-diol**	**<1%**
CAS: 25265-71-8	**Oxydipropanol**	**<1%**
CAS: 140-11-4	**Benzyl acetate** Flam. Liq. 4: H227	**<1%**
CAS: 123-92-2	**Isopentyl acetate** Flam. Liq. 3: H226 - Warning	**<1%**
CAS: 4368-56-3	**C.I.Acid Blue 62** Eye Irrit. 2A: H319 - Warning	**<1%**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST-AID MEASURES

4.1 Description of necessary measures:

Request medical assistance immediately, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation,however, it is recommended in case of intoxication symptoms to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

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SECTION 4: FIRST-AID MEASURES (continued)

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, as this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Request immediate medical assistance, showing the SDS of this product. Do not induce vomiting, because its expulsion from the stomach can be hazardous to the mucus of the main digestive tract, and its inhalation, to the respiratory system. Rinse out the mouth and throat, as they may have been affected during ingestion. In the case of loss of consciousness do not administrate anything orally unless supervised by a doctor. Keep the person affected at rest.

4.2 Most important symptoms/effects, acute and delayed:

Acute and delayed effects are indicated in sections 2 and 11.

4.3 Indication of immediate medical attention and special treatment needed, if necessary:

Non-applicable

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Product is non-flammable under normal conditions of storage, handling and use. In the case of combustion as a result of improper handling, storage or use preferably use polyvalent powder extinguishers (ABC powder), in accordance with the Regulation on fire protection systems.

Unsuitable extinguishing media:

Non-applicable

5.2 Specific hazards arising from the chemical:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Special protective equipment and precautions for fire-fighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Only properly trained personnel should be involved in firefighting. Evacuate nonessential personnel from the fire area. Destroy any source of ignition. In case of fire, refrigerate the storage containers and tanks for products susceptible to inflammation. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and underground water.

6.3 Methods and materials for containment and cleaning up:

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SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

For accidental releases in excess of reportables quantities (RQ) (Table 302.4), refer to 40 CFR 302 for detailed instructions concerning reporting requirements and notify the National Response Center (800) 424-8802.

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.
Spillages in water or sea:
Small spillages:
Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.
Large spillages:
If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks with regards manually handling weights. Maintain order, cleanliness and dispose of using safe methods (section 6).

B.- Technical recommendations for the prevention of fires and explosions

Avoid the evaporation of the product as it contains flammable substances, which could form flammable vapour/air mixtures in the presence of sources of ignition. Control sources of ignition (mobile phones, sparks,...) and transfer at slow speeds to avoid the creation of electrostatic charges. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Minimum Temp.: 41 ºF
Maximum Temp.: 86 ºF
Maximum time: 12 Months

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

Identification	Occupational exposure limits		
propan-2-ol	8-hour TWA PEL	400 ppm	980 mg/m³
CAS: 67-63-0	Ceiling Values - TWA PEL		
Isopentyl acetate	8-hour TWA PEL	100 ppm	525 mg/m³
CAS: 123-92-2	Ceiling Values - TWA PEL		
Phosphoric acid	8-hour TWA PEL		1 mg/m³

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000):

Identification	Occupational exposure limits		
CAS: 7664-38-2	Ceiling Values - TWA PEL		

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
propan-2-ol	TLV-TWA	200 ppm	
CAS: 67-63-0	TLV-STEL	400 ppm	
Benzyl acetate	TLV-TWA	10 ppm	
CAS: 140-11-4	TLV-STEL		
Isopentyl acetate	TLV-TWA	50 ppm	
CAS: 123-92-2	TLV-STEL	100 ppm	
Phosphoric acid	TLV-TWA		1 mg/m³
CAS: 7664-38-2	TLV-STEL		3 mg/m³

CALIFORNIA- TABLE AC-1 PERMISSIBLE EXPOSURE LIMITS FOR CHEMICAL CONTAMINANTS:

Identification	Occupational exposure limits		
propan-2-ol	PEL	400 ppm	980 mg/m³
CAS: 67-63-0	STEL	500 ppm	1225 mg/m³
Benzyl acetate	PEL	10 ppm	61 mg/m³
CAS: 140-11-4	STEL		
Isopentyl acetate	PEL	50 ppm	266 mg/m³
CAS: 123-92-2	STEL	100 ppm	532 mg/m³
Phosphoric acid	PEL		1 mg/m³
CAS: 7664-38-2	STEL		3 mg/m³

NIOSH: Immediately Dangerous To Life or Health (IDLH) Values:

Identification	Occupational exposure limits		
propan-2-ol	TWA		
CAS: 67-63-0	IDLH Value	2000 ppm	
Isopentyl acetate	TWA		
CAS: 123-92-2	IDLH Value	1000 ppm	
Phosphoric acid	TWA		
CAS: 7664-38-2	IDLH Value		1000 mg/m³

Biological limit values:

Biological Exposure Indices (BEIs®) - ACGIH

Identification	BEIs®	Determinant	Sampling Time
propan-2-ol CAS: 67-63-0	40 mg/L	Acetone in urine	End of shift at end of workweek

8.2 Appropriate engineering controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protection Equipment. For more information on Personal Protection Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation, the information on clothing performance must be combined with professional judgment, and a clear understanding of the clothing application, to provide the best protection to the worker. All chemical protective clothing use must be based on a hazard assessment to determine the risks for exposure to chemicals and other hazards. Conduct hazard assessments in accordance with 29 CFR 1910.132.

B.- Respiratory protection

If the working conditions and/or safety measures adopted do not allow keeping the airborne concentration of the product below the exposure limits (if any) or at acceptable levels (if no exposure limits exist), suitable respiratory protection equipment chosen by a qualified professional should be used.

C.- Specific protection for the hands

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low -density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	The Breakthrough Time indicated by the manufacturer must exceed the period during which the product is being used. Do not use protective creams after the product has come into contact with skin. Use gloves in accordance with manufacturer´s use limitations and OSHA standard 1910.138 (29CFR)

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Panoramic glasses against splash/projections.	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing. Use this PPE in accordance with manufacturer´s use limitations and OSHA standard 1910.133 (29CFR)

E.- Bodily protection

Pictogram	PPE	Remarks
	Work clothing	Replace before any evidence of deterioration.
	Anti-slip work shoes	Replace before any evidence of deterioration.

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

40 CFR Part 59 (VOC):

V.O.C.(weight-percent): 2.11 % weight

V.O.C. at 68 ºF: Non-applicable

California Air Resources Board (CARB) - VOC Regulatory:

V.O.C.(weight-percent): 2.11 % weight

V.O.C. at 68 ºF: Non-applicable

South Coast Air Quality Management District (AQMD) - VOC Regulatory:

V.O.C.(weight-percent): 2.11 % weight

V.O.C. at 68 ºF: Non-applicable

Ozone Transport Commission (OTC) Rules - VOC Regulatory:

V.O.C.(weight-percent): 2.11 % weight

V.O.C. at 68 ºF: Non-applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

*Non-applicable due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 68 ºF:	Liquid
Appearance:	Fluid
Color:	Characteristic
Odor:	Characteristic

Volatility:

Boiling point at atmospheric pressure:	211 ºF
Vapour pressure at 68 ºF:	2373 Pa
Vapour pressure at 122 ºF:	12490.42 Pa (12.49 kPa)
Evaporation rate at 68 ºF:	Non-applicable *

Product description:

Density at 68 ºF:	Non-applicable *
Relative density at 68 ºF:	Non-applicable *
Dynamic viscosity at 68 ºF:	Non-applicable *
Kinematic viscosity at 68 ºF:	Non-applicable *
Kinematic viscosity at 104 ºF:	Non-applicable *
Concentration:	Non-applicable *
pH:	0.5 - 1.5
Vapour density at 68 ºF:	Non-applicable *
Partition coefficient n-octanol/water 68 ºF:	Non-applicable *
Solubility in water at 68 ºF:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *

Flammability:

Flash Point:	Non Flammable (>199.4 ºF)
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	714 ºF
Lower flammability limit:	Non-applicable *
Upper flammability limit:	Non-applicable *

Particle characteristics:

Median equivalent diameter:	Non-applicable *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Non-applicable *
Oxidising properties:	Non-applicable *
Corrosive to metals:	Non-applicable *
Heat of combustion:	Non-applicable *
Aerosols-total percentage (by mass) of flammable components:	Non-applicable *

Other safety characteristics:

Surface tension at 68 ºF:	Non-applicable *
Refraction index:	Non-applicable *

*Non-applicable due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

MIR (Maximum Incremental Reactivity): 0.02

*Non-applicable due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Precaution	Precaution	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Not applicable	Not applicable	Precaution	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2), carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than recommended by the occupational exposure limits, it may result in adverse effects on health depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for consumption. For more information see section 3
- Corrosivity/Irritability: Corrosive product, if it is swallowed causes burns destroying the tissues. For more information about secondary effects from skin contact see section 2.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Above all, skin contact may occur as fabrics of all thicknesses can be destroyed, resulting in burns. For more information on the secondary effects see section 2.
- Contact with the eyes: Produces serious eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- Carcinogenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for the effects mentioned. For more information see section 3.
  IARC: propan-2-ol (3: Not classifiable as to its carcinogenicity to humans); Benzyl acetate (3: Not classifiable as to its carcinogenicity to humans)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous with sensitising effects. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Non-applicable

Specific toxicology information on the substances:

Identification	Acute toxicity		Genus
propan-2-ol CAS: 67-63-0	LD50 oral	>5840 mg/kg	Rat
	LD50 dermal	>13900 mg/kg	Rabbit
	LC50 inhalation vapour	>25 mg/L (6 h)	Rat
Phosphoric acid CAS: 7664-38-2	LD50 oral	3500 mg/kg	Rat
	LD50 dermal	2470 mg/kg	Rabbit
	LC50 inhalation dust		
Propane-1,2-diol CAS: 57-55-6	LD50 oral	22000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation mist	44.9 mg/L (4 h)	Rat
Benzyl acetate CAS: 140-11-4	LD50 oral	2490 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		
Isopentyl acetate CAS: 123-92-2	LD50 oral	7400 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Ecotoxicity (aquatic and terrestrial, where available):

Acute toxicity:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
propan-2-ol	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
CAS: 67-63-0	EC50	10000 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		
Propane-1,2-diol	LC50	51400 mg/L (96 h)	Pimephales promelas	Fish
CAS: 57-55-6	EC50	10000 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	19100 mg/L (336 h)	Selenastrum capricornutum	Algae
Benzyl acetate	LC50	Non-applicable		
CAS: 140-11-4	EC50	17 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	110 mg/L (72 h)	Desmodesmus subspicatus	Algae
Isopentyl acetate	LC50	Non-applicable		
CAS: 123-92-2	EC50	42 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

Chronic toxicity:

Identification	Concentration		Species	Genus
Propane-1,2-diol	NOEC	Non-applicable		
CAS: 57-55-6	NOEC	13020 mg/L	Ceriodaphnia sp.	Crustacean
Benzyl acetate	NOEC	0.92 mg/L	Oryzias latipes	Fish
CAS: 140-11-4	NOEC	Non-applicable		

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
propan-2-ol	BOD5	1.19 g O2/g	Concentration	100 mg/L
CAS: 67-63-0	COD	2.23 g O2/g	Period	14 days
	BOD5/COD	0.53	% Biodegradable	86 %
Propane-1,2-diol	BOD5	1.08 g O2/g	Concentration	100 mg/L
CAS: 57-55-6	COD	1.63 g O2/g	Period	28 days
	BOD5/COD	0.66	% Biodegradable	90 %
Benzyl acetate	BOD5	Non-applicable	Concentration	10 mg/L
CAS: 140-11-4	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	100 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
propan-2-ol	BCF	3
CAS: 67-63-0	Pow Log	0.05
	Potential	Low
Propane-1,2-diol	BCF	1
CAS: 57-55-6	Pow Log	-0.92
	Potential	Low
Benzyl acetate	BCF	8
CAS: 140-11-4	Pow Log	1.96
	Potential	Low
Isopentyl acetate	BCF	10
CAS: 123-92-2	Pow Log	
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
propan-2-ol	Koc	1.5	Henry	8.207E-1 Pa·m³/mol
CAS: 67-63-0	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.24E-2 N/m (77 ºF)	Moist soil	Yes

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
Propane-1,2-diol	Koc	Non-applicable	Henry	Non-applicable
CAS: 57-55-6	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3.547E-2 N/m (77 ºF)	Moist soil	Non-applicable
Oxydipropanol	Koc	Non-applicable	Henry	Non-applicable
CAS: 25265-71-8	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3.397E-2 N/m (77 ºF)	Moist soil	Non-applicable
Benzyl acetate	Koc	Non-applicable	Henry	Non-applicable
CAS: 140-11-4	Conclusion	Non-applicable	Dry soil	Non-applicable
	Surface tension	3.558E-2 N/m (77 ºF)	Moist soil	Non-applicable
Isopentyl acetate	Koc	70	Henry	59.78 Pa·m³/mol
CAS: 123-92-2	Conclusion	Very High	Dry soil	Non-applicable
	Surface tension	2.388E-2 N/m (77 ºF)	Moist soil	Yes

12.5 Results of PBT and vPvB assessment:

Non-applicable

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods:

The next characteristic per RCRA could apply to the unused product if it becomes a waste material: Corrosivity. The next EPA hazardous waste number could apply: D002.
Wastes generated by normal household activities (e.g., routine house and yard maintenance) are excluded from the definition of hazardous waste (Title 40 of the Code of Federal Regulations Part 261.4)

Waste management (disposal and evaluation):

Follow RCRA framework and EPA regulation for to ensure that hazardous waste is managed safely and properly.Waste should not be disposed of to drains. Remind, It is the responsibility of the waste generator to evaluate whether his wastes are hazardous by characteristics or listing.See section 6 for further information about Accidental release measures.

Regulations related to waste management:

Legislation related to waste management:

40 CFR Solid Wastes - Part 239 through 282.
State regulatory requirements for generators may be more stringent than those in the federal program. Be sure to check the state´s policies.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to 49 CFR on the Transport of Dangerous Goods:

14.1 UN number: UN3265

14.2 UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group, if applicable: II

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

Limited quantities: 1 L

14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Non-applicable

Transport of dangerous goods by sea:

- CONTINUED ON NEXT PAGE -

SECTION 14: TRANSPORT INFORMATION (continued)

With regard to IMDG 42-24:

14.1 UN number: UN3265

14.2 UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group, if applicable: II

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Special regulations: 274

EmS Codes: F-A, S-B

Physico-Chemical properties: see section 9

Limited quantities: 1 L

Segregation group: SGG1

14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Non-applicable

Transport of dangerous goods by air:

With regard to IATA/ICAO 2025:

14.1 UN number: UN3265

14.2 UN proper shipping name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Phosphoric acid)

14.3 Transport hazard class(es): 8

Labels: 8

14.4 Packing group, if applicable: II

14.5 Marine pollutant: No

14.6 Special precautions which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises

Physico-Chemical properties: see section 9

14.7 Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Non-applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations specific for the product in question:

- CONTINUED ON NEXT PAGE -

SECTION 15: REGULATORY INFORMATION (continued)

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *propan-2-ol (67-63-0)* ; *Benzyl acetate (140-11-4)* ; *Isopentyl acetate (123-92-2)* ; *Phosphoric acid (7664-38-2)*
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Birth defects or other reproductive harm: Non-applicable
- California Proposition 65 (the Safe Drinking Water and Toxic Enforcement Act of 1986) - Cancer: Non-applicable
- CANADA-Domestic Substances List (DSL): *Water (7732-18-5)* ; *propan-2-ol (67-63-0)* ; *Poly(oxy-1,2-ethanediyl), .alpha.-[2-[bis(2-aminoethyl)methylammonio]ethyl]-.omega.-hydroxy-, N,N´-ditallow acyl derivs., Me sulfate (68410-69-5)* ; *Propane-1,2-diol (57-55-6)* ; *Oxydipropanol (25265-71-8)* ; *Benzyl acetate (140-11-4)* ; *Isopentyl acetate (123-92-2)* ; *C.I.Acid Blue 62 (4368-56-3)* ; *Phosphoric acid (7664-38-2)*
- CANADA-Non-Domestic Substances List (NDSL): Non-applicable
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *Isopentyl acetate (123-92-2) - 5000 lb* ; *Phosphoric acid (7664-38-2) - 5000 lb*
- Hazardous Air Pollutants (Clean Air Act): Non-applicable
- Massachusetts RTK - Substance List: *propan-2-ol (67-63-0)* ; *Isopentyl acetate (123-92-2)* ; *Phosphoric acid (7664-38-2)*
- Minnesota - Hazardous substances ERTK: *propan-2-ol (67-63-0)* ; *Benzyl acetate (140-11-4)* ; *Isopentyl acetate (123-92-2)* ; *Phosphoric acid (7664-38-2)*
- New Jersey Worker and Community Right-to-Know Act: *propan-2-ol (67-63-0)* ; *Propane-1,2-diol (57-55-6)* ; *Benzyl acetate (140-11-4)* ; *Isopentyl acetate (123-92-2)* ; *Phosphoric acid (7664-38-2)*
- New York RTK - Substance list: *propan-2-ol (67-63-0)* ; *Isopentyl acetate (123-92-2)* ; *Phosphoric acid (7664-38-2)*
- NTP (National Toxicology Program): Non-applicable
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
- Pennsylvania Worker and Community Right-to-Know Law: *Propane-1,2-diol (57-55-6)* ; *Oxydipropanol (25265-71-8)*
- Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: *propan-2-ol (67-63-0)* ; *Propane-1,2-diol (57-55-6)* ; *Benzyl acetate (140-11-4)* ; *Isopentyl acetate (123-92-2)* ; *Phosphoric acid (7664-38-2)*
- Rhode Island - Hazardous substances RTK: *Isopentyl acetate (123-92-2)* ; *Phosphoric acid (7664-38-2)*
- SB-258 Cleaning Product Right to Know Act : *propan-2-ol (67-63-0)* ; *Phosphoric acid (7664-38-2)*
- The Toxic Substances Control Act (TSCA) : *Water (7732-18-5)* ; *propan-2-ol (67-63-0)* ; *Poly(oxy-1,2-ethanediyl), .alpha.-[2-[bis(2-aminoethyl)methylammonio]ethyl]-.omega.-hydroxy-, N,N´-ditallow acyl derivs., Me sulfate (68410-69-5)* ; *Propane-1,2-diol (57-55-6)* ; *Oxydipropanol (25265-71-8)* ; *Benzyl acetate (140-11-4)* ; *Isopentyl acetate (123-92-2)* ; *C.I.Acid Blue 62 (4368-56-3)* ; *Phosphoric acid (7664-38-2)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *propan-2-ol (67-63-0)*

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information provided in this safety data sheet as a foundation for conducting workplace-specific risk assessments. These assessments will help establish the appropriate risk prevention measures for handling, using, storing, and disposing of this product.

Other legislation:

Take into consideration other applicable federal, state, and local laws and local regulations.

Other information:

All ingredients in the formula are on TSCA Inventory List.

SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with Appendix d to §1910.1200 - Safety data sheets

Texts of the legislative phrases mentioned in section 2:

H318: Causes serious eye damage.
H314: Causes severe skin burns and eye damage.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

29 CFR 1910.1200:

Eye Irrit. 2A: H319 - Causes serious eye irritation.
Flam. Liq. 2: H225 - Highly flammable liquid and vapour.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Flam. Liq. 4: H227 - Combustible liquid.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
STOT SE 3: H336 - May cause drowsiness or dizziness.

Advice related to training:

- CONTINUED ON NEXT PAGE -

SECTION 16: OTHER INFORMATION (continued)

According to 29 CFR 1910. 1200, training on chemical hazards is necessary for employees using this product. This training will facilitate their understanding and interpretation of the safety data sheet, as well as the product label.

Principal bibliographical sources:

Occupational Safety & Health Administration (OSHA).

Abbreviations and acronyms:

IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5-day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
CL50: Lethal Concentration 50
EC50: Effective concentration 50
Log-POW: Octanol-water partition coefficient
Koc: Partition coefficient of organic carbon
IARC: International Agency for Research on Cancer

NFPA:

Health Hazards: 3
Flammability Hazards: 0
Instability Hazards: 0
Special Hazards: Non-applicable

Date of compilation: 10/10/2025

END OF SAFETY DATA SHEET