

9060107-KL - HD Manual Pot & Pan Detergent

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SECTION 1: IDENTIFICATION

- 1.1 Product identifier:** 9060107-KL - HD Manual Pot & Pan Detergent
Other means of identification:
 Item Number: 9060107-KL
- 1.2 Recommended use of the chemical and restrictions on use:**
 Relevant uses (Professional users):
 - Automatic dishwashing detergent
 For Professional users only.
 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
 Flam. Liq. 3: Flammable liquids, Category 3, H226
 Skin Corr. 1B: Skin corrosion, Category 1B, H314
- 2.2 Label elements:**
29 CFR 1910.1200:
Danger
- 

- Hazard statements:**
 Flam. Liq. 3: H226 - Flammable liquid and vapour.
 Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
- Precautionary statements:**
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 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.
 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.
 P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
 P501: Dispose of contents and / or containers in accordance with regulations on hazardous waste or packaging and packaging waste respectively.
- Additional labeling:**
 Keep out of the reach of children
- 2.3 Hazards not otherwise classified (HNOC):**
 Non-applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

- 3.1 Substances:**

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Non-applicable

3.2 Mixtures:

Chemical description: Mixture composed of chemical 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: 68584-22-5	Benzenesulfonic acid, C10-16-alkyl derivs. Eye Irrit. 2A: H319 - Warning	10 - <25%
CAS: 9004-82-4	Sodium lauryl ether sulfate Eye Irrit. 2A: H319; Skin Irrit. 2: H315 - Warning	2.5 - <10%
CAS: 68439-45-2	Alcohols, C6-12, ethoxylated Acute Tox. 4: H302; Eye Dam. 1: H318 - Danger	2.5 - <10%
CAS: 85536-23-8	Amines, rape-oil, N-(hydroxyethyl), ethoxylated (4 mol EO average molar ratio) Skin Irrit. 2: H315 - Warning	2.5 - <10%
CAS: 1300-72-7	Sodium xylenesulphonate Eye Irrit. 2A: H319 - Warning	2.5 - <10%
CAS: 1310-73-2	sodium hydroxide Skin Corr. 1A: H314 - Danger	2.5 - <10%
CAS: 68002-97-1	Alcohols, C10-16, ethoxylated Acute Tox. 4: H302; Eye Dam. 1: H318; Skin Irrit. 2: H315 - Danger	1 - <2.5%
CAS: 67-63-0	propan-2-ol Eye Irrit. 2A: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger	1 - <2.5%

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:

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

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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

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:

For accidental releases in excess of reportable 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 standards 29 CFR 1910 Occupational Safety and Health Standards. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

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SECTION 7: HANDLING AND STORAGE (continued)

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

Because the product is a flammable liquid, storage should meet the requirement of 29 CFR 1910.106, Flammable and Combustible Liquids Code. Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems and with the minimum requirements for protecting the security and health of workers. 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 °F
- Maximum Temp.: 86 °F
- 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		
	8-hour TWA PEL		
sodium hydroxide CAS: 1310-73-2	8-hour TWA PEL		2 mg/m ³
	Ceiling Values - TWA PEL		
ethanol CAS: 64-17-5	8-hour TWA PEL	1000 ppm	1900 mg/m ³
	Ceiling Values - TWA PEL		
propan-2-ol CAS: 67-63-0	8-hour TWA PEL	400 ppm	980 mg/m ³
	Ceiling Values - TWA PEL		
Isopentyl acetate CAS: 123-92-2	8-hour TWA PEL	100 ppm	525 mg/m ³
	Ceiling Values - TWA PEL		
sulphuric acid CAS: 7664-93-9	8-hour TWA PEL		1 mg/m ³
	Ceiling Values - TWA PEL		

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
	TLV-TWA		
sodium hydroxide CAS: 1310-73-2	TLV-TWA		
	TLV-STEL		2 mg/m ³
ethanol CAS: 64-17-5	TLV-TWA		
	TLV-STEL	1000 ppm	
propan-2-ol CAS: 67-63-0	TLV-TWA	200 ppm	
	TLV-STEL	400 ppm	
Benzyl acetate CAS: 140-11-4	TLV-TWA	10 ppm	
	TLV-STEL		
Isopentyl acetate	TLV-TWA	50 ppm	

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

US. ACGIH Threshold Limit Values (2022):

Identification	Occupational exposure limits		
	CAS: 123-92-2	TLV-STEL	100 ppm
sulphuric acid CAS: 7664-93-9	TLV-TWA		0.2 mg/m ³
	TLV-STEL		

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

Identification	Occupational exposure limits		
	sodium hydroxide CAS: 1310-73-2	PEL	
STEL			
ethanol CAS: 64-17-5	PEL	1000 ppm	1900 mg/m ³
	STEL		
propan-2-ol CAS: 67-63-0	PEL	400 ppm	980 mg/m ³
	STEL	500 ppm	1225 mg/m ³
Benzyl acetate CAS: 140-11-4	PEL	10 ppm	61 mg/m ³
	STEL		
Isopentyl acetate CAS: 123-92-2	PEL	50 ppm	266 mg/m ³
	STEL	100 ppm	532 mg/m ³
sulphuric acid CAS: 7664-93-9	PEL		0.1 mg/m ³
	STEL		3 mg/m ³

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

Identification	Occupational exposure limits		
	sodium hydroxide CAS: 1310-73-2	TWA	
IDLH Value			10 mg/m ³
ethanol CAS: 64-17-5	TWA		
	IDLH Value	3300 ppm	
propan-2-ol CAS: 67-63-0	TWA		
	IDLH Value	2000 ppm	
Isopentyl acetate CAS: 123-92-2	TWA		
	IDLH Value	1000 ppm	
sulphuric acid CAS: 7664-93-9	TWA		
	IDLH Value		15 mg/m ³

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

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)

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Appearance:	Transparent
Color:	Yellow
Odor:	Scented
Volatility:	
Boiling point at atmospheric pressure:	209 °F
Vapour pressure at 68 °F:	2449 Pa
Vapour pressure at 122 °F:	12822.24 Pa (12.82 kPa)
Evaporation rate at 68 °F:	Non-applicable *
Product description:	
Density at 68 °F:	1032.4 kg/m ³
Relative density at 68 °F:	1.032
Dynamic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 68 °F:	Non-applicable *
Kinematic viscosity at 104 °F:	Non-applicable *
Concentration:	Non-applicable *
pH:	≈8.5 - 9.5
Vapour density at 68 °F:	Non-applicable *
Partition coefficient n-octanol/water 68 °F:	Non-applicable *
Solubility in water at 68 °F:	Non-applicable *
Solubility properties:	Non-applicable *
Decomposition temperature:	Non-applicable *
Melting point/freezing point:	Non-applicable *
Flammability:	
Flash Point:	127 °F
Flammability (solid, gas):	Non-applicable *
Autoignition temperature:	712 °F
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 °F:	Non-applicable *
Refraction index:	Non-applicable *
MIR (Maximum Incremental Reactivity):	0.01

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

SECTION 10: STABILITY AND REACTIVITY

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SECTION 10: STABILITY AND REACTIVITY (continued)

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	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid direct impact	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 (CO₂), 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, however, it contains substances classified as dangerous 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):

- 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: ethanol (1: Carcinogenic to humans); 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:

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SECTION 11: TOXICOLOGICAL INFORMATION (continued)

- 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
	Route	Dose	
Sodium xylenesulphonate CAS: 1300-72-7	LD50 oral	7200 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation dust		
Alcohols, C6-12, ethoxylated CAS: 68439-45-2	LD50 oral	500 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		
Alcohols, C10-16, ethoxylated CAS: 68002-97-1	LD50 oral	1200 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation vapour		
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
Benzenesulfonic acid, C10-16-alkyl derivs. CAS: 68584-22-5	LD50 oral	>5000 mg/kg	Rat
	LD50 dermal		
	LC50 inhalation dust		

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:

Identification	Concentration		Species	Genus
	LC50	EC50		
Benzenesulfonic acid, C10-16-alkyl derivs. CAS: 68584-22-5	LC50	10000 mg/L (96 h)	Cyprionodon variegatus	Fish
	EC50	Non-applicable		
	EC50	Non-applicable		
Sodium lauryl ether sulfate CAS: 9004-82-4	LC50	Non-applicable		
	EC50	3.12 mg/L (48 h)	Ceriodaphnia dubia	Crustacean
	EC50	Non-applicable		

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
Amines, rape-oil, N-(hydroxyethyl), ethoxylated (4 mol EO average molar ratio) CAS: 85536-23-8	LC50	Non-applicable		
	EC50	Non-applicable		
	EC50	2410 mg/L (72 h)	N/A	Algae
sodium hydroxide CAS: 1310-73-2	LC50	189 mg/L (48 h)	Leuciscus idus	Fish
	EC50	33 mg/L	Crangon crangon	Crustacean
	EC50	Non-applicable		
propan-2-ol CAS: 67-63-0	LC50	9640 mg/L (96 h)	Pimephales promelas	Fish
	EC50	10000 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	Non-applicable		

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
Benzenesulfonic acid, C10-16-alkyl derivs. CAS: 68584-22-5	BOD5	Non-applicable	Concentration	Non-applicable
	COD	Non-applicable	Period	28 days
	BOD5/COD	Non-applicable	% Biodegradable	8 %
Sodium lauryl ether sulfate CAS: 9004-82-4	BOD5	Non-applicable	Concentration	100 mg/L
	COD	Non-applicable	Period	14 days
	BOD5/COD	Non-applicable	% Biodegradable	58.6 %
propan-2-ol CAS: 67-63-0	BOD5	1.19 g O2/g	Concentration	100 mg/L
	COD	2.23 g O2/g	Period	14 days
	BOD5/COD	0.53	% Biodegradable	86 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
Sodium lauryl ether sulfate CAS: 9004-82-4	BCF	10
	Pow Log	1.62
	Potential	Low
propan-2-ol CAS: 67-63-0	BCF	3
	Pow Log	0.05
	Potential	Low

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
Benzenesulfonic acid, C10-16-alkyl derivs. CAS: 68584-22-5	Koc	8320000000	Henry	Non-applicable
	Conclusion	Immobile	Dry soil	Non-applicable
	Surface tension	Non-applicable	Moist soil	Non-applicable
propan-2-ol CAS: 67-63-0	Koc	1.5	Henry	8.207E-1 Pa·m ³ /mol
	Conclusion	Very High	Dry soil	Yes
	Surface tension	2.24E-2 N/m (77 °F)	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, Ignitability. The next EPA hazardous waste number could apply: D002, D001.
IT IS THE RESPONSIBILITY OF THE WASTE GENERATOR TO EVALUATE WHETHER HIS WASTES ARE HAZARDOUS BY CHARACTERISTICS OR LISTING.

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SECTION 13: DISPOSAL CONSIDERATIONS (continued)

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:** UN2920
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (sodium hydroxide; ethanol)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8, 3
- 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:

With regard to IMDG 42-24:



- 14.1 UN number:** UN2920
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (sodium hydroxide; ethanol)
- 14.3 Transport hazard class(es):** 8
- Labels:** 8, 3
- 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-E, S-C
 Physico-Chemical properties: see section 9
 Limited quantities: 1 L
 Segregation group: Non-applicable
- 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:

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SECTION 14: TRANSPORT INFORMATION (continued)



- 14.1 UN number:** UN2920
- 14.2 UN proper shipping name:** CORROSIVE LIQUID, FLAMMABLE, N.O.S. (sodium hydroxide; ethanol)
- 14.3 Transport hazard class(es):** 8
Labels: 8, 3
- 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:

- CALIFORNIA LABOR CODE - The Hazardous Substances List: *sodium hydroxide (1310-73-2)*; *ethanol (64-17-5)*; *propan-2-ol (67-63-0)*; *Benzyl acetate (140-11-4)*; *Isopentyl acetate (123-92-2)*; *sulphuric acid (7664-93-9)*
- 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)*; *sodium hydroxide (1310-73-2)*; *Sodium xylenesulphonate (1300-72-7)*; *Alcohols, C6-12, ethoxylated (68439-45-2)*; *Alcohols, C10-16, ethoxylated (68002-97-1)*; *ethanol (64-17-5)*; *Sodium lauryl ether sulfate (9004-82-4)*; *Alcohols, C12-15, ethoxylated (68131-39-5)*; *Amines, rape-oil, N-(hydroxyethyl), ethoxylated (4 mol EO average molar ratio) (85536-23-8)*; *propan-2-ol (67-63-0)*; *Oxydipropanol (25265-71-8)*; *Benzyl acetate (140-11-4)*; *Isopentyl acetate (123-92-2)*; *C.I.Acid yellow 23 (1934-21-0)*; *Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)*; *sulphuric acid (7664-93-9)*
- CANADA-Non-Domestic Substances List (NDSL): Non-applicable
- Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) - Reportable Quantities: *sodium hydroxide (1310-73-2)* - 1000 lb; *Isopentyl acetate (123-92-2)* - 5000 lb; *sulphuric acid (7664-93-9)* - 1000 lb
- Hazardous Air Pollutants (Clean Air Act): Non-applicable
- Massachusetts RTK - Substance List: *sodium hydroxide (1310-73-2)*; *ethanol (64-17-5)*; *propan-2-ol (67-63-0)*; *Isopentyl acetate (123-92-2)*; *sulphuric acid (7664-93-9)*
- Minnesota - Hazardous substances ERTK: *sodium hydroxide (1310-73-2)*; *ethanol (64-17-5)*; *propan-2-ol (67-63-0)*; *Benzyl acetate (140-11-4)*; *Isopentyl acetate (123-92-2)*; *sulphuric acid (7664-93-9)*
- New Jersey Worker and Community Right-to-Know Act: *sodium hydroxide (1310-73-2)*; *ethanol (64-17-5)*; *propan-2-ol (67-63-0)*; *Benzyl acetate (140-11-4)*; *Isopentyl acetate (123-92-2)*; *sulphuric acid (7664-93-9)*
- New York RTK - Substance list: *sodium hydroxide (1310-73-2)*; *ethanol (64-17-5)*; *propan-2-ol (67-63-0)*; *Isopentyl acetate (123-92-2)*; *sulphuric acid (7664-93-9)*
- NTP (National Toxicology Program): *sulphuric acid (7664-93-9)*
- OSHA Specifically Regulated Substances (29 CFR 1910.1001-1096): Non-applicable
- Pennsylvania Worker and Community Right-to-Know Law: *ethanol (64-17-5)*; *Oxydipropanol (25265-71-8)*
- Protective Action Criteria (PAC) with AEGLs, ERPGs, & TEELs: *sodium hydroxide (1310-73-2)*; *ethanol (64-17-5)*; *propan-2-ol (67-63-0)*; *Benzyl acetate (140-11-4)*; *Isopentyl acetate (123-92-2)*; *sulphuric acid (7664-93-9)*
- Rhode Island - Hazardous substances RTK: *sodium hydroxide (1310-73-2)*; *Isopentyl acetate (123-92-2)*; *sulphuric acid (7664-93-9)*
- SB-258 Cleaning Product Right to Know Act : *sodium hydroxide (1310-73-2)*; *propan-2-ol (67-63-0)*; *sulphuric acid (7664-93-9)*
- The Toxic Substances Control Act (TSCA) : *Water (7732-18-5)*; *sodium hydroxide (1310-73-2)*; *Sodium xylenesulphonate (1300-72-7)*; *Alcohols, C6-12, ethoxylated (68439-45-2)*; *Alcohols, C10-16, ethoxylated (68002-97-1)*; *ethanol (64-17-5)*; *Sodium lauryl ether sulfate (9004-82-4)*; *Alcohols, C12-15, ethoxylated (68131-39-5)*; *propan-2-ol (67-63-0)*; *Oxydipropanol (25265-71-8)*; *Benzyl acetate (140-11-4)*; *Isopentyl acetate (123-92-2)*; *C.I.Acid yellow 23 (1934-21-0)*; *Benzenesulfonic acid, C10-16-alkyl derivs. (68584-22-5)*; *sulphuric acid (7664-93-9)*
- Toxic chemical release reporting under EPCRA section 313 (40 CFR Part 372): *propan-2-ol (67-63-0)*; *sulphuric acid (7664-93-9)*

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.

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SECTION 15: REGULATORY INFORMATION (continued)

Other legislation:

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

Other information:

The ingredients in the product formula are all on the TSCA Inventory.

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:

H314: Causes severe skin burns and eye damage.

H318: Causes serious eye damage.

H226: Flammable liquid and vapour.

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:

Acute Tox. 4: H302 - Harmful if swallowed.

Eye Dam. 1: H318 - Causes serious eye damage.

Eye Irrit. 2A: H319 - Causes serious eye irritation.

Flam. Liq. 2: H225 - Highly flammable liquid and vapour.

Skin Corr. 1A: 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:

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: 2

Instability Hazards: 0

Special Hazards: Non-applicable



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Information in this Safety Data Sheet (SDS) is based on sources other than direct test data and is given in good faith. No warranty is expressed or implied. We believe that the information is current as of the date of this SDS. The use of this information, the conditions, the methods of handling, storage, use and disposal of the product are not within the control of the manufacturer and distributor, therefore it is the user's responsibility and obligation to determine the conditions of the safe use of this product and to ensure that its activities comply with all laws and regulations.

END OF SAFETY DATA SHEET