

The Science of Cleaning®

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Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 03/31/2018 Reviewed on 6/26/2025

1 Identification

· Product Identifier

· Trade Name: ALK 225 · Product Number: K-225B

· Relevant identified uses of the substance or mixture and uses advised against:

· Product Description: Alkaline cleaner

- · Application of the substance / the mixture: Low Pressure Pre-Soak: One Step
- Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier:

Kaady Chemical Corp.

2545 SW SPRING GARDEN ST STE 120

PORTLAND, OR 97219

1-510-562-9788

www.kaadychemical.com

Emergency telephone number: +1-800-424-9300

2 Hazard(s) Identification

· Classification of the substance or mixture:



GHS05 Corrosion

Met. Corr.1 H290 May be corrosive to metals.



GHS07

Acute Tox. 4 H302 Harmful if swallowed.

Acute Tox. 4 H312 Harmful in contact with skin.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements:
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms:





GHS05 GHS07

· Signal word: Warning

· Hazard-determining components of labeling:

Potassium Hydroxide 2-butoxvethanol

· Hazard statements:

H290 May be corrosive to metals.

H302+H312 Harmful if swallowed or in contact with skin.

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H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements:

Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection. P280

P301+P310 If swallowed: Immediately call a poison center/doctor.

Specific treatment (see supplementary first aid instructions on this Safety Data P321

Sheet).

Rinse mouth. P330

If swallowed: Call a poison center/doctor if you feel unwell. P301+P312

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep 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.

P322 Specific measures (see supplementary first aid instructions on this Safety Data

Sheet).

P332+P313 If skin irritation occurs: Get medical advice.

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

P363 Wash contaminated clothing before reuse. P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values. 0 % of the mixture consists of component(s) of unknown toxicity.

· Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme

· NFPA ratings (scale 0 - 4)



Health = 2 Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2Fire = 0

REACTIVITY 0 Physical Hazard = 0

· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

· Non-hazardous components: Non-Hazardous Components

>75%

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- · Chemical characterization: Mixtures
- · **Description:** Mixture of substances listed below with non-hazardous additions.

· Dangerous Components:		
CAS: 1310-58-3	Potassium Hydroxide	<20%
RTECS: TT 2102000	♦ Skin Corr. 1A, H314; ♦ Acute Tox. 4, H302	
CAS: 111-76-2	2-butoxyethanol	<5%
RTECS: KJ 8575000	① Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	
	Irrit. 2, H315; Eye Irrit. 2A, H319; Flam. Liq. 4, H227	

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- · Description of first aid measures:
- General information:

Symptoms of poisoning may occur after exposure to dust, fumes or particulates; seek medical attention if feeling unwell.

· After inhalation:

Give oxygen or artificial respiration if needed. If symptoms develop, move victim to fresh air. If symptoms persist, obtain medical attention.

After skin contact:

Promptly flush skin with water for at least 15 minutes to ensure all chemical is removed. Remove contaminated clothing and wash before reuse. If symptoms persist, obtain medical attention.

· After eye contact:

Flush with large amounts of water for at least 15 minutes, lifting upper and lower lids occasionally. Get immediate medical attention.

· After swallowing:

Give 3-4 glasses of water or milk to dilute stomach contents. Do NOT induce vomiting. Seek immediate medical attention.

- Information for doctor:
- · Most important symptoms and effects, both acute and delayed:

No further relevant information available.

· Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- · Extinguishing media:
- · Suitable extinguishing agents:

CO2, sand, dry chemical, water mist or alcohol resistant foam.

Use fire fighting measures that suit the environment.

- · For safety reasons unsuitable extinguishing agents: No further relevant information.
- Special hazards arising from the substance or mixture:

Carbon oxides

Nitrogen oxides (NOx)

Potassium oxides

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Advice for firefighters:

· Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

Keep from contacting skin or eyes.

Avoid breathing vapors, mist or gas.

Ensure adequate ventilation.

Evacuate personnel to safe areas.

- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up:

Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

Dispose of the collected material according to regulations.

Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals

PAC-1:		
1310-58-3 Potassium Hydroxide		0.18 mg/m ³
111-76-2 2-butoxyethanol		60 ppm
· PAC-2:		
1310-58-3	Potassium Hydroxide	2 mg/m³
111-76-2	2-butoxyethanol	120 ppn
PAC-3:		
1310-58-3	Potassium Hydroxide	54 mg/m
111-76-2	2-butoxyethanol	700 ppm

7 Handling and Storage

· Handlina

· Precautions for safe handling:

Avoid breathing vapors or mist.

Avoid contact with eyes, skin, or clothing.

Keep containers closed when not in use.

Do not expose containers to open flame, excessive heat, sparks or direct sunlight.

Do not puncture or drop containers.

Handle with care and avoid spillage on the floor (slippage).

Keep material out of reach of children.

Keep material away from incompatible materials.

Wash thoroughly after handling.

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- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities:
- Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility:

Store away from strong acids.

Store away from strong oxidizers.

Store away from chlorinated solvents,

Do not store in or near Aluminum, Tin, Zinc or Brass.

- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- · Components with occupational exposure limits:

1310-58-3 Potassium Hydroxide

REL Ceiling limit value: 2 mg/m³
TLV Ceiling limit value: 2 mg/m³

111-76-2 2-butoxyethanol

PEL Long-term value: 240 mg/m³, 50 ppm

Skin

REL Long-term value: 24 mg/m³, 5 ppm

Skin

TLV Long-term value: 97 mg/m³, 20 ppm

BEI

· Ingredients with biological limit values:

111-76-2 2-butoxyethanol

BEI 200 mg/g creatinine

urine

end of shift

Butoxyacetic acid with hydrolysis

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- · Exposure controls:
- · Personal protective equipment:
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

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Breathing equipment:



NIOSH/OSHA or EN approved respiratory protection is recommended for use in airborne concentrations exceeding exposure limits.

· Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Select glove material based on penetration times, rates of diffusion and degradation.

· Material of gloves:

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.

Neoprene, Nitrile or Buma Rubber.

· Penetration time of glove material:

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

Eye protection:



Safety glasses recommended.

9 Physical and Chemical Properties

- Information on basic physical and chemical properties
- General Information
- · Appearance:

Form: Liquid
Color: Light blue
Odour: Glycol-Ether Like
Odor threshold: Not determined.

· pH-value @ 20 °C (68 °F): >13

· Change in condition

Melting point/Melting range: Not determined. Boiling point/Boiling range: Not determined.

· Flash point: None

· Flammability (solid, gaseous): Not applicable.

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Ignition temperature:	Not applicable
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapor pressure @ 611 ℃ (1,131.8 ℉):	≤0.1 hPa (≤0.1 mm Hg)
Density @ 20 °C (68 °F): Relative density: Vapor density: Evaporation rate:	1.080 g/cm³ (9.013 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with: Water:	Fully Soluble
Partition coefficient (n-octanol/water):	Not determined.
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.
Solvent content: VOC content: Other information:	50 g/L No further relevant information available.

10 Stability and Reactivity

- · Reactivity: No further relevant information available.
- · Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: Incompatibilities, flames, ignition sources.
- · Incompatible materials:

Peroxides, Nitric Acid, Strong Acids, Strong Oxidizing Agents, Chlorinated Solvents, Phosphorous, Tin Oxides, Aluminum, Tin, Zinc or Brass.

· Hazardous decomposition products: Carbon Oxides, Nitrogen Oxides (NOx), Potassium Oxides.

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Trade Name: ALK 225

11 Toxicological Information

- · Information on toxicological effects:
- · Acute toxicity:

· LD/LC50 values that are relevant for classification:			
1310-58-3 Potassium Hydroxide			
Oral	LD50	273 mg/kg (Rat)	
Inhalative	LC50/96 hours	80 mg/l (Daphnia)	
111-76-2 2-butoxyethanol			
Oral	LD50	470 mg/kg (Rat)	
Dermal	LD50	220 mg/kg (rab)	
Inhalative	LC50/4 h	2,174.91 mg/l (Rat)	

- Primary irritant effect:
- On the skin: No irritating effect.
- · On the eye: Irritating effect.
- Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

- · Carcinogenic categories:
- IARC (International Agency for Research on Cancer):

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

111-76-2 2-butoxyethanol

3

· NTP (National Toxicology Program):

None of the ingredients are listed.

· OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

12 Ecological Information

- · Toxicity:
- · Aquatic toxicity:

111-76-2 2-butoxyethanol

EC50 1,815 mg/l (Water flea)

- · Persistence and degradability: No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential: No further relevant information available.
- · Mobility in soil: No further relevant information available.

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- · Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment:
- · PBT: Not applicable.
- vPvB: Not applicable.
- Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods:
- Recommendation:

Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

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· UN-Number:

· DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name:

· DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

- · Transport hazard class(es):
- · DOT



· Class: Non-Regulated Material

· ADR/ADN, IMDG, IATA



· Class: Non-Regulated Material

· Packing group:

· DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

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· Environmental hazards:	Not applicable.	
· Special precautions for user:	Not applicable.	
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.		
· UN "Model Regulation":	Non-Regulated Material	

15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

111-76-2 2-butoxyethanol

· TSCA (Toxic Substances Control Act):

1310-58-3 Potassium Hydroxide

111-76-2 2-butoxyethanol

- · California Proposition 65:
- · Chemicals known to cause cancer:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

New Jersey Right-to-Know List:

1310-58-3 Potassium Hydroxide

111-76-2 2-butoxyethanol

· New Jersey Special Hazardous Substance List:

1310-58-3 Potassium Hydroxide CO. R1 CA, F2

111-76-2 2-butoxyethanol

· Pennsylvania Right-to-Know List:

1310-58-3 Potassium Hydroxide

111-76-2 2-butoxyethanol

· Pennsylvania Special Hazardous Substance List:

1310-58-3 Potassium Hydroxide

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Trade Name: ALK 225

· Carcinogenic categories:

· EPA (Environmental Protection Agency):

111-76-2 2-butoxyethanol

NL

TLV (Threshold Limit Value established by ACGIH):

111-76-2 2-butoxyethanol

A3

NIOSH-Ca (National Institute for Occupational Safety and Health):

None of the ingredients are listed.

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:





GHS05 GHS07

· Signal word: Warning

· Hazard-determining components of labeling:

Potassium Hydroxide 2-butoxyethanol

Hazard statements:

H290 May be corrosive to metals.

H302+H312 Harmful if swallowed or in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

· Precautionary statements:

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P310 If swallowed: Immediately call a poison center/doctor.

P321 Specific treatment (see supplementary first aid instructions on this Safety Data

Sheet).

P330 Rinse mouth.

P301+P312 If swallowed: Call a poison center/doctor if you feel unwell.

P302+P352 If on skin: Wash with plenty of water.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P304+P341 If inhaled: If breathing is difficult, remove person to fresh air and keep 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.

P322 Specific measures (see supplementary first aid instructions on this Safety Data

Sheet).

P332+P313 If skin irritation occurs: Get medical advice.

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

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P363 Wash contaminated clothing before reuse. P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

· National regulations:

None of the ingredients are listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

· Date of preparation / last revision: 03/31/2018 / 15

Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Flam. Liq. 4: Flammable liquids - Category 4

Met. Corr.1: Corrosive to metals - Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1A: Skin corrosion/irritation - Category 1A

Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

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