# SAFETY DATA SHEET



Revision date 29-Mar-2022

**Revision Number** 1

### 1. Identification

Product identifier

Product Name E-Kleen 125

Other means of identification

Product Code(s) EPI-0067C

UN number or ID number UN1823

Synonyms None

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

### **Manufacturer Address**

Electrochemical Products Inc. 17000 West Lincoln Ave New Berlin, WI 53151 Phone: 262-786-9330 E-mail: us-sales@epi.com

www.epi.com Fax: 262-786-9403

Emergency telephone number

Emergency Telephone NCEC (#EPI-29003) +1 202 464 2554, +44 1865 407333

### 2. Hazard(s) identification

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Dermal	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 3
Skin corrosion/irritation	Category 1 Sub-category A
Serious eye damage/eye irritation	Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

### Danger

#### Hazard statements

Harmful if swallowed Toxic in contact with skin

Toxic if inhaled

Causes severe skin burns and eye damage



**Appearance** White to Off White powder

Physical state Solid

**Odor** Odorless

### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Use only outdoors or in a well-ventilated area

Do not breathe dusts or mists

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

#### **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor

Call a POISON CENTER or doctor if you feel unwell

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower

Wash contaminated clothing before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Immediately call a POISON CENTER or doctor

IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell

Rinse mouth

Do NOT induce vomiting

### **Precautionary Statements - Storage**

Store locked up

Store in a well-ventilated place. Keep container tightly closed

### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Unknown acute toxicity

### Other information

No information available.

### 3. Composition/information on ingredients

### Substance

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Trade secret
Sodium metasilicate	6834-92-0	40-45	*
Sodium hydroxide	1310-73-2	20-25	*
Disodium carbonate	497-19-8	20-25	*
Trisodium phosphate	7601-54-9	5-10	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. First-aid measures

Revision date 29-Mar-2022

**Description of first aid measures** 

General advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is

required.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical

attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical

advice/attention. Do not breathe dust.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under

the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected

area. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin contact Get immediate medical advice/attention. Wash off immediately with soap and plenty of

water while removing all contaminated clothes and shoes.

**Ingestion** Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person. Get immediate medical

advice/attention.

**Self-protection of the first aider** Ensure that medical personnel are aware of the material(s) involved, take precautions to

protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Do not breathe dust. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Use personal protective

equipment as required. See section 8 for more information.

Most important symptoms and effects, both acute and delayed

**Symptoms** Burning sensation. Coughing and/ or wheezing. Difficulty in breathing.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood

pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition

can lead to release of irritating gases and vapors.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge No

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

### 6. Accidental release measures

Revision date 29-Mar-2022

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal

protective equipment as required. Evacuate personnel to safe areas. Attention! Corrosive material. Keep people away from and upwind of spill/leak. Avoid generation of dust. Do not

breathe dust.

**Other information** Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

### 7. Handling and storage

### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Take off contaminated clothing and wash before reuse. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using

this product. Do not breathe dust. Avoid generation of dust.

### Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach

of children. Store locked up. Protect from moisture. Store away from other materials.

### 8. Exposure controls/personal protection

### Control parameters

### **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>
1310-73-2		-	Ceiling: 2 mg/m <sup>3</sup>

#### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

### Appropriate engineering controls

Engineering controls Showers

Eyewash stations Ventilation systems.

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

**Eye/face protection** Tight sealing safety goggles. Face protection shield.

**Hand protection** Wear suitable gloves. Impervious gloves.

Skin and body protection Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

Use appropriate respiratory protection. Respiratory protection

Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do General hygiene considerations

not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Do not

breathe dust. Take off contaminated clothing and wash before reuse.

### 9. Physical and chemical properties

Information on basic physical and chemical properties

**Physical state** Solid

**Appearance** White to Off White powder

Color White to off-white

Odor Odorless

**Property** Values Remarks • Method

No data available None known Hq Melting point / freezing point No data available None known Boiling point / boiling range No data available None known No data available Flash point None known No data available Relative density None known None known Water solubility Completely

Other information

**VOC Content (%)** 

### 10. Stability and reactivity

Reactivity No information available.

Stable under normal conditions. Chemical stability

None under normal processing. Possibility of hazardous reactions

Conditions to avoid Exposure to air or moisture over prolonged periods. Excessive heat.

Incompatible materials Acids. Bases. Oxidizing agent.

Hazardous decomposition products None known based on information supplied.

### 11. Toxicological information

#### Information on likely routes of exposure

### **Product Information**

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation.

> (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs.

Pulmonary edema can be fatal. Toxic by inhalation.

Eye contact Specific test data for the substance or mixture is not available. Causes serious eye

damage. (based on components). Corrosive to the eyes and may cause severe damage

including blindness. May cause irreversible damage to eyes.

**Skin contact** Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns. Toxic in contact with skin.

**Ingestion** Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung

damage if swallowed. May be fatal if swallowed and enters airways.

### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Difficulty in

breathing.

### **Acute toxicity**

#### **Numerical measures of toxicity**

No information available

### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 813.90 mg/kg
ATEmix (dermal) 894.60 mg/kg
ATEmix (inhalation-dust/mist) 0.840 mg/l

### **Unknown acute toxicity**

**Component Information** 

	Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
	Sodium metasilicate 6834-92-0	= 1153 mg/kg (Rat)	-	-
Ī	Sodium hydroxide 1310-73-2	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
Ī	Disodium carbonate 497-19-8	= 4090 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 2300 mg/m³ (Rat) 2 h
Ī	Trisodium phosphate 7601-54-9	> 2000 mg/kg (Rat)	> 300 mg/kg (Rabbit)	> 2.16 mg/L (Rat) 1 h

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes.

Causes burns.

**Respiratory or skin sensitization** No information available.

Germ cell mutagenicity No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

Target organ effects Respiratory system, Eyes, Skin.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

### 12. Ecological information

#### **Ecotoxicity**

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Sodium metasilicate	-	LC50: =210mg/L (96h,	-	-
6834-92-0		Brachydanio rerio)		
Sodium hydroxide	-	LC50: =45.4mg/L (96h,	-	-
1310-73-2		Oncorhynchus mykiss)		
Disodium carbonate	-	LC50: 310 - 1220mg/L	-	EC50: =265mg/L (48h,
497-19-8		(96h, Pimephales		Daphnia magna)
		promelas)		
		LC50: =300mg/L (96h,		
		Lepomis macrochirus)		

Persistence and degradability No information available.

**Bioaccumulation** There is no data for this product.

Other adverse effects No information available.

## 13. Disposal considerations

### Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

### 14. Transport information

DOT

UN number or ID number UN1823

Proper shipping name Sodium hydroxide, solid

Transport hazard class(es)
Packing group

Reportable Quantity (RQ) (Sodium hydroxide: RQ (kg)= 454.00, Trisodium phosphate: RQ (kg)= 2270.00) Sodium

hydroxide: RQ (lb)= 1000.00, Trisodium phosphate: RQ (lb)= 5000.00

EPI-0067C - E-Kleen 125 Revision date 29-Mar-2022

Sodium hydroxide: RQ (kg)= 1816.00, Trisodium phosphate: RQ (kg)= 22700.00

DOT reportable quantity kg (calculated)

**DOT Reportable Quantity lbs.** Sodium hydroxide: RQ (lb)= 4000.00, Trisodium phosphate: RQ (lb)= 50000.00

(calculated)

Special Provisions IB8, IP2, IP4, T3, TP33

**DOT Marine Pollutant** NP

**Description** UN1823, Sodium hydroxide, solid, 8, II

Emergency Response Guide 154

Number

**TDG** 

UN number or ID number UN1823

**UN proper shipping name** Sodium hydroxide, solid

Transport hazard class(es) 8
Packing group

**Description** UN1823, Sodium hydroxide, solid, 8, II

**MEX** 

UN number or ID number UN1823

**UN proper shipping name** Sodium hydroxide, solid

Transport hazard class(es) 8
Packing group | |

**Description** UN1823, Sodium hydroxide, solid, 8, II

ICAO (air)

UN number or ID number UN1823

UN proper shipping name Sodium hydroxide, solid

Transport hazard class(es) 8
Packing group |

**Description** UN1823, Sodium hydroxide, solid, 8, II

<u>IATA</u>

UN number or ID number UN1823

UN proper shipping name Sodium hydroxide, solid

Transport hazard class(es) 8
Packing group | |

**Description** UN1823, Sodium hydroxide, solid, 8, II

ERG Code 81

**IMDG** 

UN number or ID number UN1823

**UN proper shipping name** Sodium hydroxide, solid

Transport hazard class(es) 8
Packing group II
EmS-No F-A, S-B
Marine pollutant NP

**Description** UN1823, Sodium hydroxide, solid, 8, II

RID

UN number or ID number UN1823

UN proper shipping name Sodium hydroxide, solid

Transport hazard class(es) 8
Packing group II
Classification code C6

**Description** UN1823, Sodium hydroxide, solid, 8, II

**ADR** 

UN number or ID number UN1823

**UN proper shipping name** Sodium hydroxide, solid

Transport hazard class(es) 8
Packing group II
Classification code C6
Tunnel restriction code (E)

**Description** UN1823, Sodium hydroxide, solid, 8, II, (E)

ADN

UN number or ID number UN1823

**UN** proper shipping name Sodium hydroxide, solid

Transport hazard class(es) 8 Packing group Ш Classification code C6

Description UN1823, Sodium hydroxide, solid, 8, II

PP, EP **Equipment Requirements** 

### 15. Regulatory information

#### **International Inventories**

Complies **TSCA** 

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Sodium metasilicate	6834-92-0	Present	Active
Sodium hydroxide	1310-73-2	Present	Active
Disodium carbonate	497-19-8	Present	Active
Trisodium phosphate	7601-54-9	Present	Active
Surfactant	-	Present	Active
Surfactant	-	Present	Active

**DSL/NDSL** Complies Complies **EINECS/ELINCS** Does not comply **ENCS IECSC** Complies **KECL** Does not comply

Does not comply **PICCS AICS** 

Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **US Federal Regulations**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Revision date 29-Mar-2022

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#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	Reportable Quantity (RQ)
Sodium hydroxide 1310-73-2	1000 lb	-	RQ 1000 lb final RQ RQ 454 kg final RQ
Trisodium phosphate 7601-54-9	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

### **US State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Sodium hydroxide	X	-	X
1310-73-2			
Trisodium phosphate	X	-	X
7601-54-9			

### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

### 16. Other information

NFPA Health hazards 3 Flammability 0 Instability 0 Special hazards - Health hazards 3 Flammability 0 Physical hazards 0 Personal protection X

#### Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: Exposure controls/personal protection

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) EPA (Environmental Protection Agency)

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications

Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

EPI-0067C - E-Kleen 125

Revision date 29-Mar-2022

World Health Organization

**Revision date** 29-Mar-2022

**Revision Note** No information available.

**Disclaimer** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**