

Safety Data Sheet

ALKALINE TABS



Safety Data Sheet dated 2/11/2023, version 3.0

This version cancels and substitutes any previous version

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: ALKALINE TABS

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

Recommended use:

Alkaline cleaner for condensers in tablet

1.3. Details of the supplier of the safety data sheet

Company:

ERRECOM SPA

Via Industriale, 14

Corzano (BS) Italy

Tel. +39 030/9719096

Competent person responsible for the safety data sheet:

lab@errecom.it

1.4. Emergency telephone number

+39 02-6610-1029 Poison Control Center Niguarda Ca' Granda - Milano - ITALY

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)



Warning, Eye Irrit. 2, Causes serious eye irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

None

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

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3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 30% - < 40%	sodium carbonate	Index number: 011-005-00-2 CAS: 497-19-8 EC: 207-838-8	3.3/2 Eye Irrit. 2 H319
>= 15% - < 20%	citric acid monohydrate	CAS: 5949-29-1 EC: 201-069-1 REACH No.: 01-21194570 26-42-XXXX	3.3/2 Eye Irrit. 2 H319 3.8/3 STOT SE 3 H335
>= 5% - < 7%	sulphamidic acid	Index number: 016-026-00-0 CAS: 5329-14-6 EC: 226-218-8 REACH No.: 01-21194886 33-28-XXXX	3.3/2 Eye Irrit. 2 H319 3.2/2 Skin Irrit. 2 H315 4.1/C3 Aquatic Chronic 3 H412
>= 1% - < 3%	Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (Alternate CAS n. 68585-47-7)	CAS: 85586-07-8 EC: 287-809-4 REACH No.: 01-21194894 63-28-XXXX	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318 3.2/2 Skin Irrit. 2 H315 4.1/C3 Aquatic Chronic 3 H412 Specific Concentration Limits: C >= 20%: Eye Dam. 1 H318 C >= 1%: Eye Irrit. 2 H319
>= 1% - < 3%	long chain alcohol, alkoxylated	CAS: 166736-08-9	3.3/2 Eye Irrit. 2 H319

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

Remove any contact lenses.

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

4.2. Most important symptoms and effects, both acute and delayed

No information available.

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No information available.

SECTION 5: Firefighting measures

- 5.1. Extinguishing media
 - Suitable extinguishing media:
 - Water spray.
 - CO2 or Dry chemical fire extinguisher.
 - Foam fire extinguisher.
 - Extinguishing media which must not be used for safety reasons:
 - None in particular.
- 5.2. Special hazards arising from the substance or mixture
 - Do not inhale explosion and combustion gases.
 - Burning produces heavy smoke.
- 5.3. Advice for firefighters
 - Use suitable breathing apparatus.
 - Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
 - Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures
 - For non emergency personnel:
 - Wear personal protection equipment.
 - Remove persons to safety.
 - See protective measures under point 7 and 8.
 - For emergency responders:
 - Wear personal protection equipment.
- 6.2. Environmental precautions
 - Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
 - Retain contaminated washing water and dispose it.
 - In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
 - Suitable material for taking up: absorbing material, organic, sand
- 6.3. Methods and material for containment and cleaning up
 - For cleaning up:
 - Collect the spilled product and place it in containers for recovery or disposal. Remove the residue with jets of water if there are no contraindications.
 - Ventilate the area.
- 6.4. Reference to other sections
 - See also section 8 and 13

SECTION 7: Handling and storage

- 7.1. Precautions for safe handling
 - Avoid contact with skin and eyes.
 - Do not breathe the dust.
 - Advice on general occupational hygiene:
 - Do not eat, drink or smoke when using this product.
 - Contaminated clothing should be changed before entering eating areas.
- 7.2. Conditions for safe storage, including any incompatibilities
 - Keep in a dry and well ventilated place.
 - Store away from direct sunlight.
 - Keep away from food, drink and feed.
 - Incompatible materials:
 - See subsection 10.5
 - Instructions as regards storage premises:

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Adequately ventilated premises.
7.3. Specific end use(s)
Information not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No occupational exposure limit available

DNEL Exposure Limit Values

sodium carbonate - CAS: 497-19-8

Consumer: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term (acute)

Worker Professional: 10 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, local effects

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (Alternate CAS n. 68585-47-7) - CAS: 85586-07-8

Consumer: 24 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 285 mg/m³ - Consumer: 85 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 4060 mg/kg - Consumer: 2440 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (Alternate CAS n. 68585-47-7) - CAS: 85586-07-8

Target: Fresh Water - Value: 0.102 mg/L

Target: Marine water - Value: 0.01 mg/L

Target: Freshwater sediments - Value: 3.58 mg/kg

Target: Marine water sediments - Value: 0.358 mg/kg

8.2. Exposure controls

Eye protection:

Protective airtight goggles (ref. Standard EN 166).

Protection for skin:

Safety shoes.

Overall.

Protection for hands:

work gloves resistant to penetration (ref. standard EN 374).

Suitable material:

CR (polychloroprene, chloroprene rubber).

FKM (fluoro rubber).

NBR (nitrile rubber).

NR (natural rubber, natural latex).

Material thickness: minimum 0.12 mm.

Break through time : > 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Respiratory protection:

Not needed for normal use.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Solid	--	--
Colour:	white and green	--	--
Odour:	characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--
Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	9	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	soluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1 - 1.3 g/mL (+20°C/+68°F)	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

sulfamic acid: decomposes at 205 °C / 401 °F.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

Under normal use and storage conditions, no hazardous reactions are expected.

sulfamic acid: risk of explosion on contact with chlorine. It reacts dangerously with metal salts of nitrates and nitrites.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

sulfamic acid: chlorine, nitric acid, nitrates and nitrites of sodium and potassium.

10.6. Hazardous decomposition products

sulfamic acid: sulfur oxides and nitrogen oxides.

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Toxicological information of the product:

- a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
Test: Acute toxicity estimate - Route: Oral > 2000 mg/kg
- b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met
- c) serious eye damage/irritation
The product is classified: Eye Irrit. 2 H319
- d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met
- f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met
- g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met
- h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met
- j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Adverse health effects

In the absence of experimental toxicological data on the product itself, the potential risks of the product to health were evaluated based on the properties of substances, according to the criteria laid down by the relevant regulations for the classification. Consider, therefore, the concentration of each substance dangerous possibly mentioned in section 3, to assess the toxicological effects resulting from exposure to the product.

Toxicological information of the main substances found in the product:

sodium carbonate - CAS: 497-19-8

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 4090 mg/kg

Test: LD50 - Route: Skin - Species: Mouse 117 mg/kg

Test: LD50 - Route: Inhalation - Species: Rat 2.3 mg/L - Duration: 2 h

citric acid monohydrate - CAS: 5949-29-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Mouse = 5400 mg/kg - Source: OCSE 401

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Source: OCSE 402

sulphamidic acid - CAS: 5329-14-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 1450 mg/kg

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (Alternate CAS n. 68585-47-7) - CAS: 85586-07-8

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a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 2000 mg/kg
long chain alcohol, alkoxylated - CAS: 166736-08-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Not classified for environmental hazards

Based on available data, the classification criteria are not met

Sulfuric acid, mono-C12-14-alkyl esters, sodium salts (Alternate CAS n. 68585-47-7)

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae 20 mg/L - Duration h: 72

long chain alcohol, alkoxylated

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 100 mg/L - Duration h: 96

Endpoint: EC50 - Species: Daphnia 100 mg/L - Duration h: 48

Endpoint: EC50 - Species: Algae 100 mg/L - Duration h: 72

12.2. Persistence and degradability

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Reuse, if possible. Product residues are to be considered hazardous special waste. The hazardousness of the waste that partially contains this product must be evaluated according to the laws in force.

Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations.

The transport of waste may be subject to ADR.

CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

Recover if possible.

To dispose of the product or containers that have not been cleaned/reclaimed, contact companies expressly authorized to manage waste (recovery or disposal of hazardous waste).

The cleaned/reclaimed containers must be disposed of/recovered as special waste.

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Never discharge the product into surface or underground water.

Where applicable, refer to the following regulations: 91/156/EEC, 91/689/EEC, 94/62/EC and subsequent amendments.

SECTION 14: Transport information

- 14.1. UN number or ID number
Not classified as dangerous in the meaning of transport regulations.
- 14.2. UN proper shipping name
N.A.
- 14.3. Transport hazard class(es)
N.A.
- 14.4. Packing group
N.A.
- 14.5. Environmental hazards
ADR-Environmental Pollutant: No
IMDG-Marine pollutant: No
- 14.6. Special precautions for user
N.A.
- 14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Dir. 98/24/EC (Risks related to chemical agents at work)
 - Dir. 2000/39/EC (Occupational exposure limit values)
 - Regulation (EC) n. 1907/2006 (REACH)
 - Regulation (EC) n. 1272/2008 (CLP)
 - Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
 - Regulation (EU) n. 2020/878
 - Regulation (EU) n. 286/2011 (ATP 2 CLP)
 - Regulation (EU) n. 618/2012 (ATP 3 CLP)
 - Regulation (EU) n. 487/2013 (ATP 4 CLP)
 - Regulation (EU) n. 944/2013 (ATP 5 CLP)
 - Regulation (EU) n. 605/2014 (ATP 6 CLP)
 - Regulation (EU) n. 2015/1221 (ATP 7 CLP)
 - Regulation (EU) n. 2016/918 (ATP 8 CLP)
 - Regulation (EU) n. 2016/1179 (ATP 9 CLP)
 - Regulation (EU) n. 2017/776 (ATP 10 CLP)
 - Regulation (EU) n. 2018/669 (ATP 11 CLP)
 - Regulation (EU) n. 2018/1480 (ATP 13 CLP)
 - Regulation (EU) n. 2019/521 (ATP 12 CLP)
 - Regulation (EU) n. 2020/217 (ATP 14 CLP)
 - Regulation (EU) n. 2020/1182 (ATP 15 CLP)
 - Regulation (EU) n. 2021/643 (ATP 16 CLP)
 - Regulation (EU) n. 2021/849 (ATP 17 CLP)
 - Regulation (EU) n. 2022/692 (ATP 18 CLP)
- Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
 - Restrictions related to the product:
No restriction.
 - Restrictions related to the substances contained:

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Restriction 75

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

None

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H315 Causes skin irritation.

H412 Harmful to aquatic life with long lasting effects.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 4: First aid measures

SECTION 6: Accidental release measures

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

SECTION 11: Toxicological information

SECTION 12: Ecological information

SECTION 13: Disposal considerations

SECTION 15: Regulatory information

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Eye Irrit. 2, H319	Calculation method

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This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.