

SECTION1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product name : FREE KALC
Trades code : 022A290612

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

Acid descaler detergent for washable surfaces.

Descaler and detergent for hard surfaces
Sectors of use:
Professional use[SU22]

Uses advised against
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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Produced by
Allegrini S.p.A.

1.4. Emergency telephone number

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SECTION2. Hazards identification**2.1. Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS05, GHS07

Hazard Class and Category Code(s):
Skin Irrit. 2, Eye Dam. 1

Hazard statement Code(s):
H315 - Causes skin irritation.
H318 - Causes serious eye damage.

If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
GHS05 - Danger



Hazard statement Code(s):

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

Supplemental Hazard statement Code(s):

unavailable

Precautionary statements:
Prevention

P280 - Wear protective gloves/eye protection.

Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER/doctor.

Contains (Reg.EC 648/2004): < 5% anionic Surfactants, non-ionic Surfactants, Fragrance, Limonene, Benzyl Salicylate

2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

The utilization of this chemical agent cause the obligation of "Risks Evaluation" from employer according to dispositions of Dlgs. April 9th 2008 no. 81. Workers exposed to this chemical agent do not have to be subjected to sanitary supervision if the results of risks evaluation show that, according to typology and quantity of chemical agent and according to method and frequency of exposure to that agent, we only have "moderate risk" for health and safety of workers and that measures foreseen by the Dlgs. are sufficient to reduce the risk.

SECTION3. Composition/information on ingredients

3.1 Substances

Irrelevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements.

NOTE: SUBSTANCES MARKED WITH (*) HAVE SPECIFIC LIMITS

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Sulfamic acid	> 10 <= 20%	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	016-026-00-0	5329-14-6	226-218-8	01-2119488 633-28
Sulfonic acids, C14-17-sec-alkane, sodium salts (*)	> 1 <= 5%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 3, H412	n.d.	97489-15-1	307-055-2	01-2119489 924-20
2-(2-butoxyethoxy)ethanol	> 1 <= 5%	Eye Irrit. 2, H319	603-096-00-8	112-34-5	203-961-6	01-2119475 104-44
Isotridecanol Ethoxylated (*)	> 1 <= 5%	Acute Tox. 4, H302; Eye Dam. 1, H318	n.d.	69011-36-5	500-241-6	n.d.
1-Heptanol, 2-propyl-, 7EO	> 1 <= 5%	Acute Tox. 4, H302; Eye Dam. 1, H318	n.d.	160875-66-1	n.d.	n.d.

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek for medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Rinse mouth with water. It's possible to give activated charcoal in water or liquid paraffin medicine.

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

No data available.

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

If skin irritation occurs: Get medical advice/attention.

Immediately call a POISON CENTER/doctor.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unattended flames and possible sources of ignition. Do not smoke.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up**6.3.1 For containment:**

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage**7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors

While working do not eat or drink.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Professional use:

Handle with care. Store in a cool place, away from sources of heat and direct exposure of sunlight. Keep in original container closed tightly.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

Related to contained substances:

Sulfamic acid

DNEL

Systemic effects Long term Workers inhalation = 7,5 (mg/m³)

Systemic effects Long term Consumers inhalation = 1,85 (mg/m³)

Systemic effects Long term Consumers oral = 1,06 (mg/kg bw/day)

PNEC

Sweet water = 0,3 (mg/l)
 sediment Sweet water = 0,3 (mg/kg/sediment)
 Sea water = 0,03 (mg/l)
 sediment Sea water = 0,03 (mg/kg/sediment)
 intermittent emissions = 0,3 (mg/l)
 STP = 200 (mg/l)
 ground = 3 (mg/kg ground)

Sulfonic acids, C14-17-sec-alkane, sodium salts (*)

DNEL

Systemic effects Long term Workers inhalation = 35 (mg/m3)
 Systemic effects Long term Workers dermal = 5 (mg/kg bw/day)
 Systemic effects Long term Consumers inhalation = 12,4 (mg/m3)
 Systemic effects Long term Consumers dermal = 3,57 (mg/kg bw/day)
 Systemic effects Long term Consumers oral = 7,1 (mg/kg bw/day)

PNEC

Sweet water = 0,04 (mg/l)
 sediment Sweet water = 9,4 (mg/kg/sediment)
 Sea water = 0,004 (mg/l)
 sediment Sea water = 0,94 (mg/kg/sediment)
 intermittent emissions = 0,06 (mg/l)
 STP = 600 (mg/l)
 ground = 9,4 (mg/kg ground)

2-(2-butoxyethoxy)ethanol:

TWA (8h) : 67.5 mg/m3 , 10 ppm
 STEL : 101.2 mg/m3 , 15 ppm

8.2. Exposure controls

Appropriate engineering controls:

Professional use:

No specific control provided.

Individual protection measures:



(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hands protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

Wear normal work clothing.

(c) Respiratory protection

Not needed for normal use.

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

SECTION9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	clear red liquid	
Odour	scented	
Odour threshold	unavailable	
pH	> 2	
Melting point/freezing point	unavailable	
Initial boiling point and boiling range	unavailable	
Flash point	non flammable	
Evaporation rate	unavailable	
Flammability (solid, gas)	non flammable	
Upper/lower flammability or explosive limits	irrelevant	
Vapour pressure	unavailable	
Vapour density	unavailable	
Relative density	1.060 g/ml	
Solubility	in water	
Water solubility	complete	
Partition coefficient: n-octanol/water	unavailable	
Auto-ignition temperature	unavailable	
Decomposition temperature	unavailable	
Viscosity	unavailable	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION10. Stability and reactivity

10.1. Reactivity

No reactivity hazard.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

It does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE(mix) oral = 29.411,8 mg/kg

ATE(mix) dermal = n.d.

ATE(mix) inhal = n.d.

(a) acute toxicity: based on available data, the classification criteria are not satisfied.

(b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.

(c) serious eye damage/irritation: If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

(d) respiratory or skin sensitization: based on available data, the classification criteria are not satisfied.

(e) germ cell mutagenicity: based on available data, the classification criteria are not satisfied.

(f) carcinogenicity: based on available data, the classification criteria are not satisfied.

(g) reproductive toxicity: based on available data, the classification criteria are not satisfied.

(h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not satisfied.

(i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not satisfied.

(j) aspiration hazard: based on available data, the classification criteria are not satisfied.

Related to contained substances:

Sulfamic acid:

LD50 (rat) Oral (mg/kg body weight) = 1450

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Sulfonic acids, C14-17-sec-alkane, sodium salts (*):

LD50 (rat) Oral (mg/kg body weight) = 500

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

2-(2-butoxyethoxy)ethanol:

LD50 (rat) Oral (mg/kg body weight) = 2000

Isotridecanol Ethoxylated (*):

LD50 (rat) Oral (mg/kg body weight) = 2000

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1,6

SECTION 12. Ecological information

12.1. Toxicity

Related to contained substances:

Sulfamic acid:

LC50 (fish): 70.3 mg/l (96h)
NOEC (fish): >60 mg/l (34d)
EC50 (daphnia): 71.6 mg/l (48h)
EC50 (algae): 48 mg/l (72h)

Sulfonic acids, C14-17-sec-alkane, sodium salts (*):

LC50 (fish): 1 - 10 mg/l (96h)
NOEC (fish): 0.85 mg/l (28d)
EC50 (daphnia): 9.8 mg/l (48h)
NOEC (daphnia): 0.36 mg/l (22d)
EC50 (algae): > 61 mg/l (72h)
NOEC (microorganisms): 600 mg/l (16h)

2-(2-butoxyethoxy)ethanol:

LC50 (fish) : > 1300 mg/l (96h)
EC50 (daphnia) : > 100 mg/l (48h)
EC50 (algae) : > 1101 mg/l (72h)

Isotridecanol Ethoxylated (*):

LC50 (fish) : 4.6 mg/l (96h)
EC50 (daphnia) : 1.5 mg/l (48h)
EL50 (algae) : 2.5 mg/l (72h)
EC50 (microorganisms) > 10 g/l (16.9h)

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

Related to contained substances:

Sulfamic acid:
Not degradable.

Sulfonic acids, C14-17-sec-alkane, sodium salts (*):
Biodegradability: 78% (28d) (OECD Guideline 301 B)

2-(2-butoxyethoxy)ethanol:
Degradability: 85% (28d) (OECD Guideline 301 C)

Isotridecanol Ethoxylated (*):
Not readily biodegradable.
Degradability: 60.2% (28d) (OECD Guideline 301 B)

12.3. Bioaccumulative potential

Related to contained substances:

Isotridecanol Ethoxylated (*):
BCF : 232.5 l/Kg (24h)

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

Surfactants contained in this formula are in compliance with biodegradability parameters established by regulation EC 648/2004 related to detergents.

All supporting information are on hand of authorities of member countries and will be supplied to above mentioned authorities according to their explicit request or following producer's request.

SECTION13. Disposal considerations**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

SECTION14. Transport information**14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

SECTION15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

D.Lgs. 3/2/1997 n. 52 (Classification, packaging and labelling of dangerous substances). D.Lgs 14/3/2003 n. 65 (Classification, packaging and labelling of dangerous preparations). D.Lgs. 2/2/2002 n. 25 (Risks derivated from chemical agents during work). D.M. Labour 26/02/2004 (Limits for professional exposure). D.M. 03/04/2007 (Fulfillment of EU regulation 2006/8). EU Regulation n. 1907/2006 (REACH), Regulation (CE) n. 1272/2008 (CLP). Regulation (CE) n.790/2009.D.Lgs. 21/09/2005 n. 238 (Direttiva Seveso Ter).

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information**16.1. Other information**

Description of the hazard statements exposed to point 3

H315 = Causes skin irritation.

H319 = Causes serious eye irritation.

H412 = Harmful to aquatic life with long lasting effects.

H302 = Harmful if swallowed.

H318 = Causes serious eye damage.

Classification based on data of all mixture components

Main regulatory references:

Directive 2001/60/CE

Regulament 2008/1272/CE

Regulament 2010/453/CE

***This data sheet annuls and substitutes each previous version.
