

Safety Data Sheet

SECTION 1. Identification of the substance or mixture and of the company / undertaking

1.1. Product identifier

Code: antilimescale
Name CLERIT ANTILIMESCALE

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

Description / Use Descaler tablets for household dishwashers.

1.3. Details of the supplier of the safety data sheet

Company CHEMICAL FLACER SRL
Address Loc. Bellaria, 31 / a
District and Country 40036 Vado (BO)
Italy
tel. 051/6778202
fax 051/5063724
e-mail address of the competent person
responsible for the safety data sheet info@flacer.com

1.4. Emergency telephone number

For urgent inquiries refer to 051/6778202

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous according to the provisions of Regulation (EC) 1272/2008 (CLP) (and subsequent amendments). The product thus requires a safety data sheet complies with the provisions of Regulation (EC) 1907/2006 and subsequent amendments. Further information on the risks to health and / or the environment are given in sections. 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and subsequent amendments.

Classification and hazard statements:

Eye Irrit. 2 H319

2.1.2. Directives 67/548 / EEC and 1999/45 / EC and following amendments and adjustments.

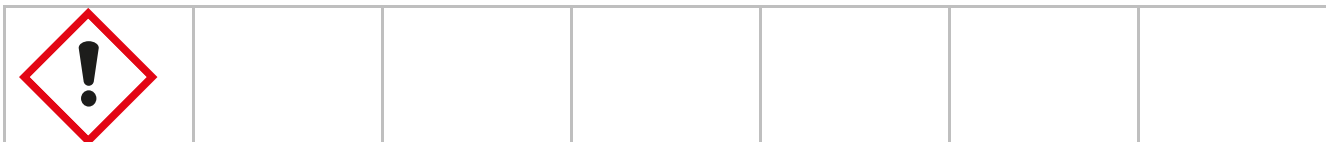
Hazard symbols:

Phrases:

2.2. Label's elements.

Danger labeling under Regulation (EC) 1272/2008 (CLP) and subsequent amendments.

Hazard pictograms:



WARNING

Keep out of the reach of children

Hazard statements:

H319 Causes serious eye irritation.

Precautionary statements:

P101 If medical advice is needed, have the product container or label at hand.

P102 Keep out of reach of children.

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

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

P337 + P313 if eye irritation persists: get medical advice/attention.

2.3. Other hazards.

Information not available.

SECTION 3. Composition / information on ingredients.**3.1. Substances.**

Information not relevant.

3.2. Mixtures.

contains:

Identificationm	Conc. %.	Classification 67/548/CEE.	Classification 1272/2008 (CLP).
CITRIC ACID MONOHYDRATE			
CAS. 5949-29-1	10 - 30	Xi R36	Eye Irrit. 2 H319
CE. 201-069-1			
INDEX. -			
Nr. Reg. 02-2119457026-42			
SODIUM CARBONATE			
CAS. 497-19-8	1 - 5	Xi R36	Eye Irrit. 2 H319
CE. 207-838-8			
INDEX. 011-005-00-2			
Nr. Reg. 01-2119485498-19			

Note: Value of the upper range excluded.

The full text of risk phrases (R) and hazard (H) is given in section 16.

T + = Very Toxic (T +), T = Toxic (T), Xn = Harmful (Xn), C = Corrosive (C), Xi = Irritant (Xi), O = Oxidizing (O), E = Explosive (E), F + = Extremely Flammable (F +), F = Highly Flammable (F), N = Dangerous for the Environment (N)

SECTION 4. First aid measures.**4.1. Description of first aid measures.**

EYES: Remove contact lenses. Wash immediately with plenty of water for at least 15 minutes, opening her eyelids. Consult a doctor if the problem persists.

SKIN: Take off contaminated clothing. Wash immediately with plenty of water. If irritation persists, consult a physician. Wash contaminated clothing before reuse.

INHALATION: Move to fresh air. If breathing is difficult, seek medical attention immediately.

Ingestion: Consult a doctor immediately. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person unless authorized by the physician.

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

For symptoms and effects caused by substances, see chap. 11.

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

Information not available.

SECTION 5. Fire-fighting measures.

5.1. Extinguishing.

SUITABLE EXTINGUISHING

Extinguishing the conventional kind: carbon dioxide, foam, powder and water spray.

EXTINGUISHING MEDIA NOT SUITABLE

None in particular.

5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN CASE OF FIRE

Do not breathe combustion products.

5.3. Advice for firefighters to firefighting.

GENERAL INFORMATION

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention. Collect extinguishing water must not be discharged into drains. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

EQUIPMENT

Normal clothing to fight the fire, like a compressed air breathing apparatus open circuit (EN 137), complete with flame retardant (EN469), flame-resistant gloves (EN 659) and boots Firefighter (HO A29 or A30).

SECTION 6. Measures in case of accidental release.

6.1. Personal precautions, protective equipment and procedures in case of emergency.

Avoid formation of dust spraying the product with water if there are no contraindications. Avoid breathing vapors / mists / gas.

Wear suitable protective equipment (including personal protective equipment referred to in section 8 of the safety data sheet) to prevent any contamination of the skin, eyes and personal clothing. These indications are valid both for the employees to work for the emergency interventions.

6.2. Environmental precautions.

Prevent product from entering the sewers, surface water, ground water.

6.3. Methods and materials for containment and cleaning.

Collect mechanically sparking the leaked product and place in containers for recovery or disposal. Discard the residue with water spray if there are no contraindications.

Ensure adequate ventilation of the area affected by the loss. Verify any incompatibilities for the material of the containers in section 7. The disposal of contaminated material must be made in accordance with the provisions of section 13.

6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Handle the product after consulting all other sections of this MSDS. Avoid dispersal of the product in the environment. Do not eat, drink or smoke while handling it. Remove contaminated clothing and protective equipment before entering areas where you eat.

7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store closed containers in a well ventilated place, away from direct sunlight. Store containers away from any incompatible materials, and found section 10.

7.3. Specific end use.

Information not available.

SECTION 8. Exposure controls / personal protection.

8.1. Control parameters.

Standards:

Italian Legislative Decree 9 April 2008 n.81.
Switzerland Valeurs limites d'exposition aux postes de travail 2012.
OEL EU Directive 2009/161 / EU; Directive 2006/15 / EC; Directive 2004/37 / EC; Directive 2000/39 / EC.
ACGIH TLV-ACGIH 2012

SODIUM CARBONATE

Health - Derived No effect - DNEL / DMEL

Effects on consumers. Effects on workers

Route of Exposure Acute Systemic acute Local Local Local Chronic Systemic chronic acute Systemic acute chronic Local Systemic chronic

Inhalation. 10 mg / m³ VND 10 mg / m³ VND

SODIUM SILICATE

Health - Derived No effect - DNEL / DMEL

Effects on consumers. Effects on workers

Route of Exposure Acute Systemic acute Local Local Local Chronic Systemic chronic acute Systemic acute chronic Local Systemic chronic

Oral. VND 0.8 mg / kg

Inhalation. VND 1.38 mg / m³ VND 5.61 mg / m³

Dermal. VND 0.8 mg / kg VND 1.59 mg / Kg

Legend:

(C) = CEILING; INALAB = Inhalable fraction; RESPIR = Respirable fraction; Torac = Fraction Thoracic.

VND = hazard identified but no DNEL / PNEC available; NEA = no anticipated exposure; NPI = no danger identified.

8.2. Exposure controls.

As the use of adequate technical equipment must always take priority over personal protection equipment, ensure good ventilation in the workplace through effective local aspiration.

For the selection of personal protective equipment if necessary, request advice from suppliers of chemicals.

The personal protective equipment must bear the CE mercatura certifying their compliance with applicable regulations.

Provide emergency shower pan with visoculare.

HAND PROTECTION

In case there is a prolonged contact with the product, you should protect your hands with gloves resistant to penetration (ref. Standard EN 374).

Final selection of glove material to work you must also evaluate the process of using the product and any other products derived from it. He also recalled that the latex gloves may result in sensitization.

SKIN PROTECTION

Wear work clothes with long sleeves and safety footwear for professional use of category I (ref. Directive 89/686 / EEC and standard EN ISO 20344). Wash with soap and water after removing protective clothing.

EYE PROTECTION

You should wear protective airtight goggles (ref. Standard EN 166).

RESPIRATORY PROTECTION

Not required, unless otherwise stated in the chemical risk assessment.

Emissions from production processes, including those from ventilation should be checked for the purposes of compliance with environmental protection.

SECTION 9. Physical and chemical properties.

9.1. Information on basic physical and chemical.

Appearance SOLID

Color WHITE.

Odor Not available.

Odour threshold. Not available.

pH. 6-9

Melting or freezing. Not available.

Initial boiling point. Not available.

Boiling range. > Not available.

Flash point. Not available.

Evaporation rate Not available.

Flammability of solids and gases Not available.

Lower explosive limit. Not available.
Upper explosive limit. Not available.
Lower explosive limit. Not available.
Upper explosive limit. Not available.
Vapor pressure. Not available.
Vapour density Not available.
Relative density. 1,000 Kg / l
Solubility Not available.
Coefficient: n-octanol / water: Not available.
Ignition temperature. Not available.
Decomposition temperature. Not available.
Viscosity Not available.
Explosive properties Not available.
Oxidising properties Not available.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

10.1. Reactivity.

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

10.2. Chemical stability.

The product is stable under normal conditions of use and storage.

10.3. Possibility of hazardous reactions.

In normal conditions of use and storage are unpredictable dangerous reactions.

10.4. Conditions to avoid.

None in particular. However the usual precautions against chemicals.

10.5. Incompatible materials.

Information not available.

10.6. Hazardous decomposition products.

Information not available.

SECTION 11. Toxicological information.

11.1. Information on toxicological 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 criteria provided by the reference standard for classificazione. Considerare therefore the concentration of each substance dangerous possibly mentioned in sect. Third, to evaluate the toxicological effects deriving dall'esposizione product.

Acute effects: contact with eyes causes irritation; Symptoms may include: redness, swelling, pain and tearing.

Inhalation of vapors may cause moderate irritation of the upper respiratory tract; contact with the skin may cause slight irritation.

Ingestion may cause health problems, including stomach pain and sting, nausea and vomiting.

Citric acid monohydrate
LD50 (Oral). 5400 mg / kg rat
LD50 (Dermal). > 2000 mg / kg

SODIUM CARBONATE
LD50 (Oral). 4090 mg / kg Rat
LD50 (Dermal). 117 mg / kg Mouse
LC50 (Inhalation). 2.3 mg / l / 2h Rat

SECTION 12. Ecological information.

Adopt good working practices, avoiding littering. Inform the competent authorities, should the product reach waterways or sewers or contaminate soil or vegetation.

12.1. Toxicity.

SODIUM SILICATE
LC50 - Fish.
1108 mg / l / 96h

12.2. Persistence and degradability.

The surfactants contained in this preparation comply with the biodegradability criteria established by Regulation (EC) No. 648/2004 on detergents.

Information on the surfactant
Persistence / Biodegradability
Test method: OECD 301
Rating: readily biodegradable
Soluble in water.

12.3. Bioaccumulation potential.

Information not available.

12.4. Mobility in soil.

Information not available.

12.5. Results of PBT and vPvB.

Based on the available data, the product does not contain PBT or vPvB percentage greater than 0.1%.

PBT: no
VPvB Substances: None.
12.6. Other adverse effects.

no one.

SECTION 13. Disposal considerations.

13.1. Methods of waste treatment.

Reuse, when possible. Product residues are considered hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorized waste management, in compliance with national and local regulations.

Avoid release of the product in the soil, sewers and waterways.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

Recover if possible.

To dispose of the product or containers uncleaned / reclaimed rivolgersi companies expressly autorizzate waste management (recovery or disposal of hazardous waste).

The containers cleaned / decontaminated should be disposed of / recovered as rifiuti speciali.

Never discharge the product into surface water or groundwater.

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

SECTION 14. Transport information.

The product is not classified as dangerous under current provisions governing the transport of dangerous goods by road (ADR) and by Rail (RID), by sea (IMDG Code) and by air (IATA).

SECTION 15. Regulatory information.

15.1. Standards and legislation on health, safety and environment specific for the substance or mixture.

Seveso category. No.

Restrictions relating to the product or contained substances pursuant to Annex XVII to Regulation (EC) 1907/2006.

No.

Substances in Candidate List (Art. 59 REACH).

No.

Substances subject to authorization (Annex XIV REACH).

No.

Substances subject to export notification Reg. (EC) 649/2012:

No.

Substances subject to the Rotterdam Convention:

No.

Substances subject to the Stockholm Convention:

No.

Healthcare controls.

Workers exposed to this chemical agent to health must undergo health checks carried out in accordance with art. 41 of Legislative Decree no. 81 dated 9 April 2008 unless the risk to the safety and health of the worker has been evaluated irrelevant, according to art. 224 paragraph 2.

15.2. Chemical safety assessment.

Was not processed a chemical safety assessment for the mixture and the substances it contains.

SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Eye Irrit. 2 Eye irritation, category 2
Skin Irrit. 2 Skin irritation, category 2
STOT SE 3 Specific target organ toxicity - single exposure, category 3
H319 Causes serious eye irritation.
H315 Causes skin irritation.
H335 May cause respiratory irritation.

Text of risk (R) phrases mentioned in section 2-3 of the sheet:

R36 Irritating to eyes.
R36 / 37/38 Irritating to eyes, RESPIRATORY AND SKIN.

LEGEND:

- ADR: European Agreement concerning the transport of dangerous goods by road
- CAS NUMBER: Number of the Chemical Abstract Service
- EC50: Concentration that gives effect to 50% of the population subject to testing
- EC NUMBER: ID number in ESIS (European archive of existing substances)
- CLP: Regulation EC 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonised System for the classification and labeling of chemicals
- IATA DGR: Regulation for the transport of dangerous goods by the International Air Transport Association
- IC50: Concentration of immobilization of 50% of the population subject to testing
- IMDG: International Maritime Code for Dangerous Goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identification number nell'Annesso VI of the CLP
- LC50: Lethal concentration, 50%
- LD50: Lethal dose, 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic according to REACH
- PEC: Predicted Environmental Concentration
- PEL: predictable level of exposure
- PNEC: Predicted No Effect Concentration
- REACH Regulation EC 1907/2006

- RID: Regulations concerning the international carriage of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration which should not be exceeded during any time EXPOSURE work.
- TWA STEL: Short Term Exposure Limit
- TWA: Exposure Limit weighted mean
- VOC: Volatile Organic Compound
- VPvB: Very persistent and very bioaccumulative according to REACH
- WGK: Water hazard class (Germany).

GENERAL BIBLIOGRAPHY

1. Directive 1999/45 / EC as amended
2. Directive 67/548 / EEC and subsequent amendments
3. Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP)
5. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
6. Regulation (EC) 453/2010 of the European Parliament
7. Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)
8. Regulation (EC) 618/2012 of the European Parliament (III Atp. CLP)
9. The Merck Index. Ed. 10
10. Handling Chemical Safety
11. Niosh - Registry of Toxic Effects of Chemical Substances
12. INRS - Fiche Toxicologique
13. Patty - Industrial Hygiene and Toxicology
14. N.I. Sax - Dangerous properties of Industrial Materials-7 Ed., 1989
15. Web Site Agency ECHA

Note: USER:

The information in this sheet are based on knowledge available at the date of the last version. Users must verify the suitability and completeness of information in relation to the specific use of the product.

It should not be construed as a guarantee on any specific product property.

The use of this product is not subject to our direct control, users must, under their own responsibility, laws and regulations on hygiene and safety. Do not assume responsibility for improper use.

Provide adequate training to staff to utilize chemicals.

Changes to previous review.

Changes were made to the following sections:

02/08/11/12/13/15.