

## Safety data sheet

### according to 1907/2006/EC, Article 31 & 2020/878/EC

Printing date 14.03.2025

Version number 1

Revision: 14.03.2025

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

##### 1.1 Product identifier

Trade name: **Sage the Machine Descaler**

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

**Sector of Use** SU21 Consumer uses: Private households / general public / consumers

**Application of the substance / the preparation** : Descaler

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

###### Manufacturer/Supplier:

Sage Appliances GmbH / BRG Appliances Ltd.

Adresse :

(GBR) 86-90 Paul Street, London, EC2A 4NE, United Kingdom

(DEU) Campus Fichtenhain 48, 47807 Krefeld, Deutschland No. HRB81309 (AG Düsseldorf) Germany

(FRA) 66 Avenue des Champs Elysées- 75008 Paris France

Tel :

(DEU) 0800 505 3104

(GBR) 0808 178 1650

(FRA) 0800 903 235

Email : [info@sageappliances.com](mailto:info@sageappliances.com)

##### 1.4 Emergency telephone number:

France (INRS 24h/24) - Tel : +33 (0)1 45 42 59 59

Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24) EU Tel: 112

Belgium - Brüssel: +32 070/245 245

UK : Call NHS 999 in a medical emergency. If you urgently need medical help or advice but it's not a life-threatening situation, call 111 (24/7). The NHS 111 number is currently only available in certain areas. If you're outside of these areas, you should call NHS Direct on 0845 4647

Swiss Toxicological Information Centre (Zürich) : +41 44 251 51 51 / [www.toxi.ch](http://www.toxi.ch).

#### SECTION 2: Hazards identification

##### 2.1 Classification of the substance or mixture

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H335 May cause respiratory irritation.

##### 2.2 Label elements

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

The product is classified and labelled according to the C.L.P. regulation.

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#### · Hazard pictograms



GHS07

#### · Signal word Warning

#### · Hazard-determining components of labelling:

Citric Acid

#### · Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### · Precautionary statements

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

P102 Keep out of reach of children.

P261 Avoid breathing dust.

P264 Wash hands thoroughly after handling.

P280 Wear eye protection / face protection.

P302+P352 IF ON SKIN: Wash with plenty of water.

P304+P340 IF INHALED: 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.

P312 Call a POISON CENTER/doctor if you feel unwell.

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

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

#### · Labelling of packages where the contents do not exceed 125 ml

#### · Hazard pictograms



GHS07

#### · Signal word Warning

#### · Hazard-determining components of labelling:

Citric Acid

#### · Hazard statements

H335 May cause respiratory irritation.

#### · Precautionary statements

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

P102 Keep out of reach of children.

P261 Avoid breathing dust.

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

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- P312 Call a POISON CENTER/doctor if you feel unwell.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · 2.3 Other hazards

The mixture shall not contain substances listed in accordance with Article 59(1) R.E.A.C.H as having endocrine disrupting properties, or be recognised as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 in a concentration equal to or greater than 0.1%.

#### · Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Determination of endocrine-disrupting properties** No further information available

## SECTION 3: Composition/information on ingredients

### · 3.2 Mixtures

- **Description:** Preparation: composed of the substances listed below.

#### · Dangerous components:

CAS: 77-92-9	Citric Acid	50-100%
EINECS: 201-069-1	⚠ Eye Irrit. 2, H319; STOT SE 3, H335	
Index number: 607-750-00-3		
RTECS: GE 7350000		
Reg.nr.: 01-2119457026-42-0000		
CAS: 87-69-4	(+)-tartaric acid	2.5-10%
RTECS: WW 7875000	⚠ Eye Dam. 1, H318	
Reg.nr.: 01-2119537204-47-0002		

- **SVHC** Not applicable
- **Additional information:** For the wording of the listed risk phrases, refer to section 16.

## SECTION 4: First aid measures

### · 4.1 Description of first aid measures

- **After inhalation:** Provide fresh air; consult a doctor in case of medical complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Do not induce vomiting; call for medical help immediately.

### · 4.2 Most important symptoms and effects, both acute and delayed :

No further relevant information is available.

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

No further relevant information is available.

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#### SECTION 5: Firefighting measures

- **5.1 Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
  - **5.2 Special hazards arising from the substance or mixture :** No further relevant information available.
  - **5.3 Advice for firefighters**
  - **Protective equipment:** No special measures required.
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#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures :**  
Avoid formation of dust.
  - **For non-emergency personnel** No other relevant information available.
  - **For emergency responders** No other relevant information available.
  - **6.2 Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow the product to enter sewers/ surface water or ground water.
  - **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
  - **6.4 Reference to other sections :**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protective equipment.  
See Section 13 for disposal information.
- 

#### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling :** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 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:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s) :** No further relevant information available.

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## SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**

### **CAS: 77-92-9 Citric Acid (50-100%)**

MAK (Switzerland) Short-term value: 4 e mg/m<sup>3</sup>  
Long-term value: 2 e mg/m<sup>3</sup>  
SSc;

### **CAS: 87-69-4 (+)-tartaric acid (2.5-10%)**

MAK (Switzerland) Short-term value: 4 e mg/m<sup>3</sup>  
Long-term value: 2 e mg/m<sup>3</sup>  
SSc;

- **DNELs**

### **CAS: 87-69-4 (+)-tartaric acid**

Oral DNEL Public long-term systemic 8.1 mg/kg bw/d  
Dermal DNEL Public long-term systemic 1.5 mg/kg bw/d  
DNEL Worker long-term systemic 2.9 mg/kg bw/d  
Inhalative DNEL Public long-term systemic 1.3 mg/m<sup>3</sup>  
DNEL Worker long-term systemic 5.2 mg/m<sup>3</sup>

- **Additional information:**  
The most current valid lists have been used as a basis for the production of this document.

- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
Keep away from food, beverages and petfood.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid all contact with the eyes.  
Avoid contact with the eyes and skin.
- **Respiratory protection:** No special measures required.
- **Hand protection**



Protective gloves

- **Gloves material :** Nitrile rubber, NBR

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#### · Eye/face protection



Safety glasses

## SECTION 9: Physical and chemical properties

### · 9.1 Information on basic physical and chemical properties

#### · General Information

· Physical state	Solid
· Form:	Powder
· Colour:	White
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined.
· Boiling point or initial boiling point and boiling range	Not determined.
· Flammability	Not determined.
· Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Not applicable.
· Decomposition temperature:	Not determined.
· pH at 20 °C	2.1
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Kinematic:	Not applicable.
· Dynamic:	Not applicable.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not applicable.
· Density and/or relative density	
· Density:	Not determined.
· Relative density :	Not determined.
· Vapour density :	Not applicable.
· Particle characteristics	See section 3.

### · 9.2 Other information :

#### · Important information on protection of health and environment, and on safety.

· Ignition temperature:	Product is not self igniting.
· Explosive properties:	Product does not present an explosion hazard.

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- **Change in condition**
- **Evaporation rate :** Not applicable.
- **Information with regard to physical hazard classes**
- **Explosives** Not classified as hazardous
- **Flammable gases** Not classified as hazardous
- **Aerosols** Not classified as hazardous
- **Oxidising gases** Not classified as hazardous
- **Gases under pressure** Not classified as hazardous
- **Flammable liquids** Not classified as hazardous
- **Flammable solids** Not classified as hazardous
- **Self-reactive substances and mixtures** Not classified as hazardous
- **Pyrophoric liquids** Not classified as hazardous
- **Pyrophoric solids** Not classified as hazardous
- **Self-heating substances and mixtures** Not classified as hazardous
- **Substances and mixtures, which emit flammable gases in contact with water** Not classified as hazardous
- **Oxidising liquids** Not classified as hazardous
- **Oxidising solids** Not classified as hazardous
- **Organic peroxides** Not classified as hazardous
- **Corrosive to metals** Not classified as hazardous
- **Desensitised explosives** Not classified as hazardous

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions :** Reacts with acids, alkalis and oxidising agents.
- **10.4 Conditions to avoid :** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

#### CAS: 77-92-9 Citric Acid

Oral LD50 5,040 mg/kg (mouse)  
11,700 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

Inhalative LC50/4 h 940 mg/l (mouse)

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725 mg/l (rat)

**CAS: 87-69-4 (+)-tartaric acid**

Oral LD50 &gt;2,000 mg/kg (rat)

Dermal LD50 &gt;2,000 mg/kg (rat)

- **Primary irritant effect:**
- **On the skin:** Causes skin irritation.
- **On the eyes:** Causes serious eye irritation.
- **Respiratory or skin sensitization** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** May cause respiratory irritation.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

**11.2 Information on other hazards****Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic toxicity:****CAS: 77-92-9 Citric Acid**

LC50 24h 1,535 mg/l (daphnia)

LC50 48h 440 mg/l (fish)

**CAS: 87-69-4 (+)-tartaric acid**

LC50 96h &gt;100 mg/l (fish)

EC50 48h 93.3 mg/l (daphnia)

ErC50 51.4 mg/l (Algae)

- **12.2 Persistence and degradability** : No further relevant information available.
- **12.3 Bioaccumulative potential** : No further relevant information available.
- **12.4 Mobility in soil** : No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.
- **12.7 Other adverse effects** : No further relevant information available.
- **Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

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### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation :**



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

HP4 Irritant - skin irritation and eye damage

HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **DOT, ADR, IMDG, IATA** none
- **14.2 UN proper shipping name**
- **ADR, IMDG, IATA** none
- **14.3 Transport hazard class(es)**
- **ADR, ADN, IMDG, IATA**
- **Class** none
- **14.4 Packing group**
- **ADR, IMDG, IATA** none
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** none

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**
- **Regulated explosives precursors**
- None of the ingredients is listed.
- **Regulated poisons**
- None of the ingredients is listed.
- **Reportable explosives precursors**
- None of the ingredients is listed.

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#### · **Reportable poisons**

None of the ingredients is listed.

#### · **Directive 2012/18/EU**

· **Named dangerous substances - ANNEX I** None of the ingredients is listed.

#### · **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

#### · **REGULATION (EU) 2019/1148**

· **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

#### · **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

#### · **Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

#### · **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

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

### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Classification in accordance with Delegated Regulation (EU) 2023/1435 of 2 May 2023 adapting to technical and scientific progress for the 20th time GB CLP and amending Annex VI part 3 of Regulation (EC) 1272/2008.

Classification in accordance with Delegated Regulation (EU) 2024/197 of 19 October 2023 adapting to technical and scientific progress for the 21st time GB CLP and amending Annex VI part 3 of Regulation (EC) 1272/2008.

Classification in accordance with Delegated Regulation (EU) 2024/2564 of 19 June 2024 adapting to technical and scientific progress for the 22nd time GB CLP and amending Annex VI part 3 of Regulation (EC) 1272/2008.

This Safety Data Sheet is in compliance with Regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2023/707.

#### · **Relevant phrases**

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

#### · **Classification according to Regulation (EC) No 1272/2008**

Skin corrosion/irritation

Expert judgement

Serious eye damage/irritation

The classification of the mixture is generally based on the

Specific target organ toxicity (single exposure)

calculation method using substance data according to Regulation (EC) No 1272/2008.

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- **Date of previous version:** 09.03.2025

- **Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

DNEL: Derived No-Effect Level (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

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

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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