# SAFETY DATA SHEET

HG descaler for espresso & pod-coffee machines (Citric Acid)



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

#### 1.1 Product identifier

Product name : HG descaler for espresso & pod-coffee machines (Citric Acid)

Product code : 323 ART
Product description : Cleaner.
Product type : Liquid.
Other means of : Not available.

identification

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

Not applicable.

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

**HG International BV** 

Damsluisweg 70 - NL-1332 EJ - Almere - The Netherlands Tel.: +31 (0)36 54 94 700 - Fax: +31 (0)36 54 94 744

Email: info@hg.eu - Internet: www.hg.eu

e-mail address of person : safety@hg.eu

responsible for this SDS

#### **National contact**

HG Hagesan UK Ltd.

Unit 2

Lanswood Park Broomfield Road Elmstead Market Colchester

Essex CO7 7FD

Tel.: 0044 (0)1206 822744 Fax: 0044 (0)1206 827019

## 1.4 Emergency telephone number

#### National advisory body/Poison Centre

Telephone number : England and Wales

NHS Direct: 0845 4647

Scotland

NHS 24: 08454 24 24 24

Republic of Ireland

01 809 2166

**Supplier** 

**Telephone number** : +31 (0)36 54 94 777 **Hours of operation** : Mo-Fr 9.00-17.00

**Information limitations** : Only for medical personnel.

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## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

**Product definition** : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Eye Irrit. 2, H319

## Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification : Xi: R36/38

: Irritating to eyes and skin. **Human health hazards** 

See Section 16 for the full text of the R phrases or H statements declared above. See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

**Hazard pictograms** 



Signal word : Warning

**Hazard statements** Causes serious eye irritation.

**Precautionary statements** 

General : If medical advice is needed, have product container or label at hand. Keep out of

reach of children.

**Prevention** : Wash hands thoroughly after handling.

: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, Response

if present and easy to do. Continue rinsing.

**Storage** : Not applicable **Disposal** : Not applicable

**Hazardous ingredients** : Citric acid, monohydrate

Supplemental label

elements

: Not applicable.

**Annex XVII - Restrictions** on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Other hazards which do not result in classification : None known.

## **SECTION 3: Composition/information on ingredients**

Substance/mixture : Mixture

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## **SECTION 3: Composition/information on ingredients**

			<u>Classification</u>		
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Citric acid, monohydrate	EC: 201069-1 CAS: 5949-29-1	>=10 - <20	Xi; R36	Eye Irrit. 2, H319	[1]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

#### **Type**

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.

## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

**Eye contact**: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest

in a position comfortable for breathing.

Skin contact : Wash contaminated skin with soap and water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

**Ingestion**: Get medical attention if adverse health effects persist or are severe.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It

may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

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

## Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.

**Ingestion**: Irritating to mouth, throat and stomach.

## Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering

redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

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

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

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#### SECTION 4: First aid measures

**Specific treatments** : No specific treatment.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media

: Not applicable

Unsuitable extinguishing

media

Not applicable

## 5.2 Special hazards arising from the substance or mixture

**Hazards from the** substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal** decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide

## 5.3 Advice for firefighters

**Special protective actions** for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective** equipment for fire-fighters Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders

: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## 6.2 Environmental precautions

: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

## 6.3 Methods and materials for containment and cleaning up

Small spill

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. The spilled material may be neutralized with sodium carbonate, sodium bicarbonate or sodium hydroxide. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

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#### **SECTION 6: Accidental release measures**

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

## **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from alkalis. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

## 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Separate from alkalis. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

## 7.3 Specific end use(s)

Recommendations : Not available.
Industrial sector specific : Not available.
solutions

## SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

## 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **DNELs/DMELs**

No DNELs/DMELs available.

## **PNECs**

No PNECs available

## 8.2 Exposure controls

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## **SECTION 8: Exposure controls/personal protection**

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

## **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Skin protection

Hand protection

: Recommended: Safety glasses.

: Hand protection:

The glove material must be impermeable and resistant to the product/the substance/ the preparation. Select the glove material taking account of the penetration times, the degrees of permeability and the degrading.

#### Glove material

The choice of a suitable glove depends on the material, but also on other quality characteristics and differs from manufacturer to manufacturer. As the product consists of several substances, the durability of the glove materials cannot be calculated in advance and therefore requires testing before use. Always ask advice from the glove manufacturer.

Dirty gloves must be replaced. Personal hygiene is an essential precondition to good hand care. Only put on gloves when your hands are clean. Wash and dry your hands carefully after wearing gloves.

#### Permeation time of the glove material

You can ask the glove manufacturer for the exact penetration time; take this into account. If product may come into contact with hands, assuming a long contact of maximum 15 minutes, gloves of the following materials offer adequate protection according to DIN EN 374.

- \* butyl rubber (thickness > 0.5 mm)
- \* nitrile rubber (thickness > 0.35 mm)
- \* polychloroprene rubber (thickness > 0.4 mm)
- \* natural rubber (thickness > 0.5 mm)

For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with a preference for a breakthrough time of more than 480 minutes.

#### Protection against splashes

For short contact or splash protection, use the same gloves as for long contact. A shorter breakthrough time may be acceptable provided the gloves are replaced in time.

Recommended: Latex gloves. or Nitrile gloves.

Body protection : Not applicable
Other skin protection : Not applicable
Respiratory protection : Not applicable
Thermal hazards : Not applicable
Environmental exposure : Not applicable
controls

## **SECTION 9: Physical and chemical properties**

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

**Appearance** 

Physical state: Liquid.Colour: Colourless.Odour: Not available.Odour threshold: Not available.

pH : '

**Melting point/freezing point**: Not available.

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## **SECTION 9: Physical and chemical properties**

Initial boiling point and boiling

range

: Not available.

Flash point : Not available.

Evaporation rate : Not available.

Flammability (solid, gas) : Not available.

Burning time : Not applicable.

Burning rate : Not applicable.

Upper/lower flammability or

explosive limits

: Not available.

Vapour pressure : Not available.
Vapour density : Not available.

Relative density : 1,071

**Solubility(ies)** : Easily soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Partition coefficient: n-octanol/ : Not available.

water

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Explosive properties : Not available.

Oxidising properties : Not available.

#### 9.2 Other information

No additional information.

## **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : Attacks many metals producing extremely flammable hydrogen gas which can form

explosive mixtures with air.

Reactive or incompatible with the following materials:

alkalis

**10.6 Hazardous** : Under normal conditions of storage and use, hazardous decomposition products

**decomposition products** should not be produced.

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

**Acute toxicity** 

**Conclusion/Summary**: Not available.

**Acute toxicity estimates** 

Not available.

## **Irritation/Corrosion**

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## **SECTION 11: Toxicological information**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Citric acid, monohydrate	Eyes - Mild irritant	Rabbit	-	0,5 minutes 5 milligrams	-

**Conclusion/Summary**: Not available.

**Sensitisation** 

**Conclusion/Summary**: Not available.

Mutagenicity

**Conclusion/Summary**: Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

**Conclusion/Summary** : Not available.

**Teratogenicity** 

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

: Not available.

#### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation: No known significant effects or critical hazards.Skin contact: No known significant effects or critical hazards.

**Ingestion**: Irritating to mouth, throat and stomach.

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

**Eye contact** : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

**Conclusion/Summary**: Not available.

General : No known significant effects or critical hazards.

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## **SECTION 11: Toxicological information**

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental effects: No known significant effects or critical hazards.

Fertility effects: No known significant effects or critical hazards.

No known significant effects or critical hazards.

Other information : Not available.

## **SECTION 12: Ecological information**

#### 12.1 Toxicity

Conclusion/Summary : Readily biodegradable

#### 12.2 Persistence and degradability

Conclusion/Summary : Readily biodegradable

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
HG descaler for espresso & pod-coffee machines (Citric Acid)	-	-	Readily

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Citric acid, monohydrate	-1,72	-	low

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

#### 12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

**12.6 Other adverse effects** : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 13.1 Waste treatment methods

## **Product**

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** 

**Packaging** 

Methods of disposal

: The classification of the product may meet the criteria for a hazardous waste.

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered

when recycling is not feasible.

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## SECTION 13: Disposal considerations

**Special precautions** 

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## **SECTION 14: Transport information**

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No.	No.	No.	No.
Additional information	-	-	-	-

14.6 Special precautions for user

: **Transport within user's premises**: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not available.

## **SECTION 15: Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

**Annex XIV - List of substances subject to authorisation** 

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : Not a

: Not applicable.

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

articles

**Other EU regulations** 

**Europe inventory** : All components are listed or exempted.

**Seveso II Directive** 

This product is not controlled under the Seveso II Directive.

Contains (Regulation (EC) :

No 648/2004)

15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

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## **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

**Abbreviations and acronyms**: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Eye Irrit. 2, H319	Expert judgment

Causes serious eye irritation.

Full text of abbreviated H

statements

: Eye Irrit. 2, H319

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

**Full text of classifications** [CLP/GHS]

Full text of abbreviated R

: R36- Irritating to eyes.

phrases

R36/38- Irritating to eyes and skin.

**Full text of classifications** 

[DSD/DPD]

: Xi - Irritant

: H319

: 2-9-2015. **Date of printing** Date of issue/ Date of

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: 11-8-2015.

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**Version** 

1.02

#### **Notice to reader**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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