



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

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Revision Number 1

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product code 31015
Product Name Restore Espresso Machine Descaler
CLP unique formula identifier VQN8-CF2S-810M-FJNS
(UFI)

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

Recommended Use Descaler

1.3. Details of the supplier of the safety data sheet

Supplier name Cafetto
Supplier Address 12 Coglin Street, Brompton SA 5007 Australia
9 Raffles Place, #27-00 Republic Plaza, Singapore 048619
Parkstraat 83 2514JG Den Haag, The Netherlands;
37-38 Long Acre, WC2E 9JT, London, U.K.
Supplier phone number Australia: +61 8 8245 6901
New Zealand: 0800 772 227
Singapore: 800 616 3122
EU: +31 70 353 8142
UK: +44 20 7193 7370
Supplier email enquiry@cafetto.com

For further information, please contact.

1.4. Emergency telephone number

Emergency telephone No information available

| Emergency telephone §45 - (EC)1272/2008 | |
|---|-----|
| Europe | 112 |
| Australia | 000 |

| | |
|----------------|-----|
| UNITED STATES | 911 |
| United Kingdom | 999 |

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

| | |
|-----------------------------------|---------------------|
| Serious eye damage/eye irritation | Category 2 - (H319) |
|-----------------------------------|---------------------|

2.2. Label elements



Signal word

Warning

Hazard Statements

H319 - Causes serious eye irritation

Precautionary Statements - EU (§28, 1272/2008)

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

P102 - Keep out of reach of children

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear 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

No information available

Section 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

| Chemical name | EC No | CAS No | Weight-% | Classification according to Regulation (EC) No. 1272/2008 [CLP] | REACH registration number |
|---------------|-----------|---------|----------|---|---------------------------|
| Citric Acid | 201-069-1 | 77-92-9 | >60% | STOT SE 3 (H335) Eye Irrit. 2 (H319) | 01-2119457026-42-0020 |
| Tartaric acid | 201-766-0 | 87-69-4 | 1-10% | Eye Dam. 1 (H318) | No data available |

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

Section 4: First aid measures

4.1. Description of first aid measures

| | |
|---|---|
| General advice | Show this safety data sheet to the doctor in attendance. |
| Inhalation | Remove to fresh air. |
| Skin contact | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. |
| Eye contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists. |
| Ingestion | Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician. |
| Self-protection of the first aider | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). |

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

| | |
|-----------------|--------------------|
| Symptoms | Burning sensation. |
|-----------------|--------------------|

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

| | |
|---------------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|---------------------------|------------------------|

Section 5: FIRE FIGHTING MEASURES

5.1. Extinguishing media

| | |
|-------------------------------------|---|
| Suitable Extinguishing Media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---|

| | |
|-------------------|--|
| Large Fire | CAUTION: Use of water spray when fighting fire may be inefficient. |
|-------------------|--|

| | |
|---------------------------------------|---|
| Unsuitable extinguishing media | Do not scatter spilled material with high pressure water streams. |
|---------------------------------------|---|

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous Combustion Products

Carbon oxides.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|---------------------------------|---|
| Personal precautions | Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. |
| Other Information | Refer to protective measures listed in Sections 7 and 8. |
| For emergency responders | Use personal protection recommended in Section 8. |

6.2. Environmental precautions

| | |
|----------------------------------|--|
| Environmental precautions | Should not be released into the environment. See Section 12 for additional Ecological Information. |
|----------------------------------|--|

6.3. Methods and material for containment and cleaning up

| | |
|--------------------------------|---|
| Methods for containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Take up mechanically, placing in appropriate containers for disposal. |

6.4. Reference to other sections

| | |
|------------------------------------|--|
| Reference to other sections | See section 8 for more information. See section 13 for more information. |
|------------------------------------|--|

Section 7: Handling and storage

7.1. Precautions for safe handling

| | |
|---------------------------------------|---|
| Advice on safe handling | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. |
| General Hygiene Considerations | Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. |

7.2. Conditions for safe storage, including any incompatibilities

| | |
|---------------------------|--|
| Storage Conditions | Keep containers tightly closed in a dry, cool and well-ventilated place. |
|---------------------------|--|

7.3. Specific end use(s)

| | |
|--------------------------------------|--|
| Identified uses | The information required is contained in this Safety Data Sheet. |
| Risk Management Methods (RMM) | |

Section 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

| Chemical name | European Union | United Kingdom | France | Spain | Germany |
|------------------------|----------------|----------------|--------|-------|--------------------------|
| Citric Acid 77-92-9 | - | - | - | - | TWA: 2 mg/m ³ |

| | | | | | |
|--------------------------|---------|---|--------|--------|--------------------------|
| Tartaric acid 87-69-4 | - | - | - | - | TWA: 2 mg/m ³ |
| Chemical name | Austria | Switzerland | Poland | Norway | Ireland |
| Citric Acid 77-92-9 | - | STEL: 4 mg/m ³ TWA: 2 mg/m ³ | - | - | - |
| Tartaric acid 87-69-4 | - | STEL: 4 mg/m ³ TWA: 2 mg/m ³ | - | - | - |

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2. Exposure controls

Personal protective equipment

| | |
|---------------------------------|--|
| Eye/face protection | If splashes are likely to occur, wear safety glasses with side-shields. None required for consumer use. |
| Hand Protection | Wear suitable gloves. |
| Skin and body protection | Wear suitable protective clothing. |
| Respiratory protection | No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. |

Environmental exposure controls No information available.

General Hygiene Considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|-----------------------|--------------------------|
| Physical state | Solid |
| Appearance | Crystalline |
| Odor | Characteristic |
| Color | No information available |
| Odor Threshold | Not applicable |

| <u>Property</u> | <u>Values</u> | <u>Remarks Method</u> |
|--------------------------------------|-------------------|-----------------------|
| pH | 2.1 at 1%w/w | None known |
| Melting / freezing point | No data available | None known |
| Boiling point / boiling range | No data available | None known |
| Flash Point | No data available | None known |
| Evaporation Rate | No data available | None known |
| Flammability (solid, gas) | No data available | None known |
| Flammability Limit in Air | | None known |
| Upper flammability limit | No data available | |
| Lower flammability limit | No data available | |
| Vapor pressure | No data available | None known |
| Vapor density | No data available | None known |
| Relative density | No data available | None known |

| | | |
|---|-------------------|------------|
| Water Solubility | Soluble in water | None known |
| Solubility(ies) | No data available | None known |
| Partition coefficient: n-octanol/water | Not Applicable | None known |
| Autoignition temperature | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity | No data available | None known |
| Dynamic viscosity | No data available | None known |
| Explosive properties | No data available | |
| Oxidizing properties | No data available | |

9.2. Other information

| | |
|-----------------------------------|--------------------------|
| Softening Point | No information available |
| Molecular Weight | No information available |
| VOC Content (%) | No information available |
| Liquid Density | No information available |
| Bulk Density | No information available |
| Particle Size | No information available |
| Particle Size Distribution | No information available |

| |
|---|
| Section 10: Stability and reactivity |
|---|

10.1. Reactivity

Remarks No data available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to avoid

None known.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon oxides.

11.1. Information on toxicological effects**Information on likely routes of exposure**

Product Information

| | |
|---------------------|---|
| Inhalation | Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract. |
| Eye contact | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. |
| Ingestion | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms May cause redness and tearing of the eyes.

Numerical measures of toxicity**Acute toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 56,117 mg/kg

Unknown acute toxicity

- 9.9 % of the mixture consists of ingredient(s) of unknown toxicity
- 9.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 9.9 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 9.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 9.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 9.9 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component Information

| Chemical name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|---------------|------------------|----------------------|-----------------|
| Citric Acid | = 3 g/kg (Rat) | > 2000 mg/kg (Rat) | - |

Delayed and immediate effects as well as chronic effects from short and long-term exposure

| | |
|--|---|
| Skin corrosion/irritation | May cause skin irritation. |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Irritating to eyes. |
| Respiratory or skin sensitization | No information available. |
| Germ cell mutagenicity | No information available. |
| Carcinogenicity | No information available. |
| Reproductive Toxicity | No information available. |

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

11.2 Information on other hazards

11.2.1 Endocrine disruptive properties

Endocrine disruptive properties No information available

11.2.2. Other information

Other adverse effects No information available

12.1. Toxicity

Ecotoxicity

| Chemical name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|---------------|----------------------|---|----------------------------|----------------------|
| Citric Acid | No data available | 96h LC50: = 1516 mg/L (Lepomis macrochirus) | No data available | 72h EC50: = 120 mg/L |
| Tartaric acid | No data available | 96h LC50: > 100 mg/L (Danio rerio) | No data available | No data available |

12.2. Persistence and degradability

Persistence and Degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Citric Acid | -1.72 |

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

| Chemical name | PBT and vPvB assessment |
|---------------|---------------------------------|
| Citric Acid | The substance is not PBT / vPvB |
| Tartaric acid | The substance is not PBT / vPvB |

12.6. Endocrine disrupting properties

Endocrine disrupting properties No additional information

12.7. Other adverse effects

No information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging No information available.

Section 14: Transport information

IMDG/IMO Not applicable

14.1 UN number or ID number Not applicable

14.2 UN proper shipping name Not applicable

14.3 Transport hazard class(es) Not applicable

14.4 Packing group Not applicable

14.5 Marine pollutant Not applicable

14.6 Special precautions for user None

14.7 Maritime transport in bulk according to IMO instruments No information available

RID Not applicable

14.1 UN number or ID number Not applicable

14.2 UN proper shipping name Not applicable

14.3 Transport hazard class(es) Not applicable

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user None

ADR Not applicable

14.1 UN number or ID number Not applicable

14.2 UN proper shipping name Not applicable

14.3 Transport hazard class(es) Not applicable

14.4 Packing Group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user None

IATA Not applicable

14.1 UN number or ID number Not applicable

14.2 UN proper shipping name NON REGULATED

14.3 Transport hazard class(es) Not applicable

14.4 Packing group Not applicable

14.5 Environmental hazards Not applicable

14.6 Special precautions for user None

Section 15: Regulatory information

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

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work .

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV). This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

| Chemical name | Restricted substance per REACH Annex XVII | Substance subject to authorization per REACH Annex XIV |
|-----------------------|---|--|
| Citric Acid - 77-92-9 | Use restricted. See item 75. | |

Persistent Organic Pollutants

Not applicable.

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable.

15.2. Chemical safety assessment

No information available.

Additional Regulatory Information:

This SDS complies with legislative requirements in Australia, including Safe Work Australia guidelines, Australian Dangerous Goods Code and the criteria for the Globally Harmonised System (GHS) of Classification and Labelling of Chemicals

Section 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

SVHC: Substances of Very High Concern for Authorization:

Section 8: Exposure controls and personal protection

| | | | |
|---------|-----------------------------|------|----------------------------------|
| TWA | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value | - | Skin designation |

Classification procedure

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGl(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
U.S. Environmental Protection Agency High Production Volume Chemicals
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

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This safety data sheet complies with the requirements of: Regulation (EC) No. 1907/2006.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet