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

Issuing Date 05-Feb-2018 **Revision date** 31-Oct-2019 **Revision number** 3

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

1.1. Product Identifier

Product code E27434

Product name Organic Descaler

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
Parkstraat 83 2514JG Den Haag, The Netherlands;
9 Raffles Place, #27-00 Republic Plaza, Singapore 048619

Supplier phone number Australia: +61 8 8245 6901
New Zealand: 0800 772 227
USA: 206 462 5212
EU: +44 20 7193 7370
Singapore: 800 616 3122

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 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
P501 - Dispose of contents/ container to an approved waste disposal plant

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 Reg. No
Citric Acid	201-069-1	77-92-9	10-30%	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
Alpha olefin sulfonate (C14-16)	-	68439-57-6	<1%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	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 >=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. Get medical attention immediately if symptoms occur.

Skin Contact Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

INGESTION Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. If swallowed. 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.

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. Ensure adequate ventilation. 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	Prevent further leakage or spillage if safe to do so.

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	Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

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. Take off contaminated clothing and wash before reuse.
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from sunlight. Store in a well-ventilated place.

7.3. Specific end use(s)

Risk Management Methods	The information required is contained in this Safety Data Sheet.

(RMM)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Chemical Name	Eu	United Kingdom	France	Spain	Germany
Citric Acid 77-92-9	-	-	-	-	TWA: 2 mg/m³
Tartaric acid 87-69-4	-	-	-	-	TWA: 2 mg/m³
Chemical Name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
Citric Acid 77-92-9	-	STEL: 4 mg/m³ TWA: 2 mg/m³	-	-	-
Tartaric acid 87-69-4	-	STEL: 4 mg/m³ TWA: 2 mg/m³	-	-	-

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.

Hand protection Wear suitable gloves. Impervious gloves.

Skin and Body Protection Wear suitable protective clothing. Long sleeved clothing.

Environmental Exposure Controls No information available.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State liquid
appearance clear
Odor Neutral
color No information available
odor threshold No information available

Property	VALUES	Remarks Method
pH	2.1-2.4	
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	1.13	
Water solubility	Soluble in water	
solubility(ies)	no data available	None known
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	no data available	None known
decomposition temperature	no data available	None known
Kinematic Viscosity	no data available	None known
viscosity	no data available	None known

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

no data available.

10.2. Chemical stability

Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

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.

10.5. Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides.

Section 11: Toxicological information

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. Irritating to eyes. (based on components). Causes serious eye irritation.

Skin Contact Specific test data for the substance or mixture is not available. CAUSES SKIN IRRITATION. (based on components).

INGESTION Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Information on Toxicological Effects

Symptoms Redness. 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) 15,030.00 mg/kg

Unknown Acute Toxicity

24.46236 % of the mixture consists of ingredient(s) of unknown toxicity
4.50268 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
24.46236 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
24.46236 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
24.46236 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
24.46236 % 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	= 3000 mg/kg (Rat) = 3 g/kg (Rat)	> 2000 mg/kg (Rat)	-
Alpha olefin sulfonate (C14-16)	= 2220 mg/kg (Rat)	> 740 mg/kg (Rabbit)	-

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

Skin Corrosion/Irritation Classification based on data available for ingredients. Irritating to skin.

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.

Section 12: Ecological information

12.1. Toxicity

ecotoxicity .

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Daphnia Magna (Water Flea)
Citric Acid	-	96h LC50: = 1516 mg/L (Lepomis macrochirus)	-	72h EC50: = 120 mg/L
Tartaric acid	-	96h LC50: > 100 mg/L (Danio rerio)	-	-
Alpha olefin sulfonate (C14-16)	-	96h LC50: 1.0 - 10.0 mg/L (Brachydanio rerio) 96h LC50: = 12.2 mg/L (Brachydanio rerio)	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Chemical Name	log Pow
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
Alpha olefin sulfonate (C14-16)	The substance is not PBT / vPvB

12.6. Other adverse effects

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 REGULATED
14.1 UN-No NOT REGULATED
14.2 Proper shipping name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Marine pollutant Not Applicable
14.6 Special provisions None
14.7 Transport in Bulk According to Annex II of MARPOL and the IBC CODE No information available

RID NOT REGULATED
14.1 UN-No NOT REGULATED
14.2 Proper shipping name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special provisions None

ADR NOT REGULATED
14.1 UN-No NOT REGULATED
14.2 Proper shipping name NOT REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable

14.6 Special provisions None

IATA NOT REGULATED
14.1 UN-No NOT REGULATED
14.2 Proper shipping name NON REGULATED
14.3 Hazard class NOT REGULATED
14.4 Packing group NOT REGULATED
14.5 Environmental Hazard Not Applicable
14.6 Special provisions 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).

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:
In accordance with European Regulation (EC) No 648/2004, this product contains: Anionic Surfactants 1-10%, 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

Full text of H-Statements referred to under sections 2 and 3
H314 - Causes severe skin burns and eye damage

Legend

SVHC: Substances of Very High Concern for Authorization:

SECTION 8: Exposure controls/personal protection

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

Key literature references and sources for data
www.ChemADVISOR.com/

Issuing Date 05-Feb-2018

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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