



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

Issuing Date 26-Jun-2018 Revision number 7

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

1.1. Product Identifier

Product code 50733 PBV000273

Product name Polar Clean

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

Recommended use Coffee/Espresso machine/equipment cleaner

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	



	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 1 - (H318)
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2.2. Label Elements



Signal Word

DANGER

hazard statements

H318 - Causes serious eye damage

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 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

P310 - Immediately call a POISON CENTER or doctor

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

Additional Information

This product requires tactile warnings if supplied to the general public

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	REACH Reg.
				to Regulation (EC) No.	No
				1272/2008 [CLP]	

Sodium percarbonate	239-707-6	15630-89-4	10-30%	Ox. Sol. 2 (H272)	01-2119457268-
				Acute Tox. 4 (H302)	30-0009
				Eye Dam. 1 (H318)	
Citric Acid	201-069-1	77-92-9	10-30%	Eye Irrit. 2 (H319)	01-2119457026-
				-	42-0020
Sodium carbonate	207-838-8	497-19-8	1-10%	Eye Irrit. 2 (H319)	01-2119485498-
					19
Potassium carbonate	209-529-3	584-08-7	1-10%	Eye Irrit. 2 (H319) Skin	01-2119532646-
				Irrit. 2 (H315)	36
Ethylene diamine	200-573-9	64-02-8	1-10%	Acute Tox. 4 (H302)	no data
tetraacetic acid,				Eye Dam. 1 (H318)	available
tetrasodium salt					

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. Immediate medical

attention is required.

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 Get immediate medical advice/attention. Rinse immediately with plenty of water,

also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing.

Do not rub affected area.

INGESTION Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of

water. Never give anything by mouth to an unconscious person. 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

surrounding environment.

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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 PrecautionsUse personal protective equipment as required. Avoid contact with eyes.

OTHER INFORMATION Refer to protective measures listed in Sections 7 and 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 UpTake 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. Keep out of

the reach of children. Store locked up.

7.3. Specific end use(s)

Risk Management Methods

(RMM)

The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limitsThis product, as supplied, does not contain any hazardous materials with

occupational exposure limits established by the region specific regulatory bodies

Chemical Name	Eu	United Kingdom	France	Spain	Germany
Citric Acid	-	-	=	-	TWA: 2 mg/m ³
77-92-9					_
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Citric Acid	-	STEL: 4 mg/m ³	-	-	-
77-92-9		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 Tight sealing safety goggles.

Hand protection Wear suitable gloves.

Skin and Body Protection Wear suitable protective clothing.

Environmental Exposure

Controls

No information available.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Powder(s) appearance white Characteristic

color No information available

odor threshold Not Applicable

 Property
 VALUES
 Remarks Method

 pH
 9.5 at 1% w/w
 None known

>> 3.5 at 170 W/W Notic 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/wa	terNot applicable	None known
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
Mo information available
No information available
VOC content (%)
No information available
Liquid Density
No information available
Bulk density
No information available
particle size
No information available
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

None under normal processing.

reactions

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. Severely irritating

to eyes. Causes serious eye damage. May cause burns. May cause irreversible

damage to eyes.

Skin Contact Specific test data for the substance or mixture is not available. May cause

irritation. Causes mild skin irritation.

INGESTION Specific test data for the substance or mixture is not available. Ingestion may

cause gastrointestinal irritation, nausea, vomiting and diarrhea. HARMFUL IF

SWALLOWED. (based on components).

Information on Toxicological Effects

Symptoms Redness. Burning. MAY CAUSE BLINDNESS.

Numerical Measures of Toxicity

Acute toxicity

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

 ATEmix (oral)
 860.30 mg/kg

 ATEmix
 22.70 mg/l

(inhalation-dust/mist)

Unknown Acute Toxicity

35.74348 % of the mixture consists of ingredient(s) of unknown toxicity

35.74348 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

35.74348 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

35.74348 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)

35.74348 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)

35.74348 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

Component information

Chemical Name	Oral LD50	dermal LD50	Inhalation LC50
Sodium percarbonate	= 1034 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Citric Acid	= 3000 mg/kg (Rat) = 3	> 2000 mg/kg (Rat)	-
	g/kg(Rat)		

Sodium carbonate	= 4090 mg/kg (Rat)	-	= 2300 mg/m ³ (Rat) 2 h
Potassium carbonate	= 1870 mg/kg (Rat)	-	-
Ethylene diamine tetraacetic	= 1658 mg/kg (Rat) = 10	-	-
acid, tetrasodium salt	g/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. Causes burns. Risk of

serious damage 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 Toxic to aquatic life with long lasting effects. .

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Daphnia Magna (Water Flea)
Sodium percarbonate	240h EC50: = 70 mg/L	96h LC50: = 70.7 mg/L	-	48h EC50: = 4.9 mg/L
	(Chlorella emersonii)	(Pimephales promelas)		
Citric Acid	-	96h LC50: = 1516	-	72h EC50: = 120 mg/L
		mg/L (Lepomis		
		macrochirus)		
Sodium carbonate	120h EC50: = 242	96h LC50: = 300 mg/L	-	48h EC50: = 265 mg/L
	mg/L (Nitzschia)	(Lepomis macrochirus)		
		96h LC50: 310 - 1220		
		mg/L (Pimephales		
		promelas)		
Potassium carbonate	-	-	-	48h LC50: = 630 mg/L
Ethylene diamine	72h EC50: = 1.01	96h LC50: = 59.8 mg/L	-	24h EC50: = 610 mg/L
tetraacetic acid,	mg/L (Desmodesmus	(Pimephales promelas)		

tetrasodium salt	subspicatus)	96h LC50: = 41 mg/L	
		(Lepomis macrochirus)	

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	
Sodium percarbonate	The substance is not PBT / vPvB PBT assessment does	
	not apply	
Citric Acid	The substance is not PBT / vPvB	
Sodium carbonate	The substance is not PBT / vPvB PBT assessment does	
	not apply	
Potassium carbonate	The substance is not PBT / vPvB	
Ethylene diamine tetraacetic acid, tetrasodium salt	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/IMONOT REGULATED14.1 UN-NoNOT REGULATED14.2 Proper shipping nameNOT REGULATED14.3 Hazard classNOT REGULATED

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14.4 Packing groupNOT REGULATED14.5 Marine pollutantNot Applicable

14.6 Special provisions None

14.7 Transport in Bulk No information available

According to Annex II of MARPOL and the IBC CODE

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

14.6 Special provisions None

ADR
14.1 UN-No
14.2 Proper shipping name
14.3 Hazard class
14.4 Packing group
14.5 Environmental Hazard

NOT REGULATED

14.6 Special provisions None

IATANOT REGULATED14.1 UN-NoNOT REGULATED14.2 Proper shipping nameNON REGULATED14.3 Hazard classNOT REGULATED14.4 Packing groupNOT REGULATED14.5 Environmental HazardNot Applicable

14.6 Special provisions None

Section 15: Regulatory information

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

National Regulations

France

Occupational Illnesses (R-463-3, France)

occupational inflocus (it 400 c) i failed		
Chemical Name	French RG number	Title
Potassium carbonate 584-08-7	RG 58,RG 67	-

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).

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Persistent Organic Pollutants

Not Applicable.

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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

Full text of H-Statements referred to under sections 2 and 3

H272 - May intensify fire; oxidizer

H302 - Harmful if swallowed

H315 - Causes skin irritation

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

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 26-Jun-2018

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,

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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