



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 27-Feb-2018

Revision number 9

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

1.1. Product Identifier

Product code E14005 PBV000111

Product name MFC Blue

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

Recommended use Milk system cleaner

1.3. Details of the supplier of the safety data sheet

Supplier name Cafetto

Supplier Address 12 Coglein 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

Skin Corrosion/Irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Acute Aquatic Toxicity	Category 3 - H402

2.2. Label Elements



Signal Word

DANGER

hazard statements

H314 - Causes severe skin burns and eye damage

H402 - Harmful to aquatic life

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

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash hands thoroughly after handling

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

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

P310 - Immediately call a POISON CENTER or doctor

P363 - Wash contaminated clothing before reuse

P405 - Store locked up

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

Additional Information

This product requires tactile warnings if supplied to the general public

This product requires child resistant fastenings 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 to Regulation (EC) No. 1272/2008 [CLP]	REACH Reg. No
Sodium metasilicate, pentahydrate	600-279-4	10213-79-3	1-10%	Met. Corr. 1 (H290) Skin Corr. 1B (H314) STOT SE3 (H335)	no data available
Ethylene diamine tetraacetic acid, tetrasodium salt	200-573-9	64-02-8	1-10%	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	no data available
Benzyltrimethylammonium chloride	205-573-9	139-07-1	1-10%	no data available	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

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

INHALATION

Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention.

Eye Contact

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. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

INGESTION

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get immediate medical advice/attention.

Self-Protection of the First Aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid

contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. 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 Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure.

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

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating 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 Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

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. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Take off contaminated clothing and wash before reuse.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

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 moisture. Store locked up. Keep out of the reach of children. Store away from other materials.

7.3. Specific end use(s)

Risk Management Methods (RMM) Not Applicable.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Biological occupational exposure limits



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	Face protection shield.
Hand protection	Wear suitable gloves. Impervious gloves.
Skin and Body Protection	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron.

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	blue
Odor	characteristic
color	No information available
odor threshold	Not Applicable

Property	VALUES	Remarks Method
pH	13.1	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	1.12	None known
Water solubility	Soluble in water	None known
solubility(ies)	no data available	None known
Partition coefficient: n-octanol/water	Not available	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	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

Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Acids, Bases, Oxidizing agent.

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. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye Contact

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Corrosive to the eyes and may cause severe damage

including blindness. Causes serious eye damage. May cause irreversible damage to eyes.

Skin Contact

Specific test data for the substance or mixture is not available. Causes burns. (based on components).

INGESTION

Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

Information on Toxicological Effects**Symptoms**

Redness. Burning. MAY CAUSE BLINDNESS. Coughing and/ or wheezing.

Numerical Measures of Toxicity**Acute toxicity**

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

ATEmix (oral)	4,930 mg/kg
ATEmix (inhalation-dust/mist)	33.44 mg/l

Unknown Acute Toxicity

- 21.02682 % of the mixture consists of ingredient(s) of unknown toxicity
- 5.9 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 21.02682 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 21.02682 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 21.02682 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 17.31834 % 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 metasilicate, pentahydrate	= 847 mg/kg (Rat)	-	-
Ethylene diamine tetraacetic acid, tetrasodium salt	= 1658 mg/kg (Rat) = 10 g/kg (Rat)	-	-
Benzyltrimethylammonium chloride	= 400 mg/kg (Rat)	-	-

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. Causes burns.

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.

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Daphnia Magna (Water Flea)
Ethylene diamine tetraacetic acid, tetrasodium salt	72h EC50: = 1.01 mg/L (Desmodosmus subspicatus)	96h LC50: = 59.8 mg/L (Pimephales promelas) 96h LC50: = 41 mg/L (Lepomis macrochirus)	-	24h EC50: = 610 mg/L
Benzyldimethyldodecyl ammonium chloride	-	-	EC50 = 1.43 mg/L 10 min EC50 = 1.62 mg/L 5 min	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation No information available.

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
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/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 No information available
According to Annex II of MARPOL and the IBC CODE

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

National Regulations

France

Occupational Illnesses (R-463-3, France)

Chemical Name	French RG number	Title
Benzyltrimethylammonium chloride 139-07-1	RG 66	-

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.

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

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances per Seveso Directive (2012/18/EU)

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

H290 - May be corrosive to metals



H314 - Causes severe skin burns and eye damage
H335 - May cause respiratory irritation
H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H400 - Very toxic to aquatic life
H318 - Causes serious eye damage
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H225 - Highly flammable liquid and vapor
H370 - Causes damage to organs
H331 - Toxic if inhaled
H402 - Harmful to aquatic life

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 27-Feb-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, 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

