

This document is based on the SDS provided by Lamothe-Abiet and has been adapted by Blue H₂O Filtration according to The Globally Harmonised System classification and Australian requirements.

Section 1: Identification: Product identifier and chemical identity

1.1 Product identifier

COEFF5, COEFF2.

1.2 Other means of identification

Potassium metabisulfite tablets.

1.3 Recommended use of the chemical and restrictions on use

Beverage production.

1.4 Details of manufacturer or importer

Manufacturer

Lamothe-Abiet
Avenue Ferdinand de Lesseps ZA-ACTIPOLIS
33610 CANEJAN - FRANCE
P: +33557779292
e: contact@lamothe-abiet.com

Importer

Blue H₂O Filtration
1/11-13 Wells Road
Oakleigh VIC 3166
P: 03 9564 7029
e: info@blueh2o.com.au

1.5 Emergency phone number

General emergency:	000
After hours emergency:	0401 446 119
Poisons information centre	1800 251 525 or 131 126
Chemcall Australia	1800 127 406

Section 2: Hazard(s) identification

2.1 Classification of the substance

GHS classification: Health hazard: Skin corrosion/irritation: 1A, 1B, 1C, 2.
Respiratory or skin sensitization: 1A, 1B



Pictograms:

Signal word:

Hazard statements:

Danger.

H318: Risk of serious damage to eyes

H335: May cause respiratory irritation



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Precautionary statements: AUH031: Contact with acids liberates toxic gas.
 EUH031: Contact with acids liberates toxic gas.
 P261 - Avoid breathing dust, fume, gas, mist, vapours, spray.
 P271 - Use only outdoors or in a well-ventilated area.
 P280 - Wear protective gloves, protective clothing, eye protection, face protection.
 P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 - Call a doctor, a POISON CENTER if you feel unwell.
 P403 + P233: Store in a well-ventilated area. Keep container tightly closed
 P405: Store locked.
 P501: Dispose of contents or container with a collection of special or hazardous waste

Additional information: None.

2.2 Label elements

See Section 2.1.

2.3 Other hazards

Skin contact: May cause irritation on prolonged contact.

Eye contact: May cause eye irritation upon direct contact.

Ingestion: Excessive ingestion could lead to intestinal discomfort (e.g. diarrhea, bloating, cramping, etc.).

Following inhalation: In some cases, repeated exposure may lead to allergic sensitization based on the exposure level, duration and susceptibility of the individual. Subsequent chronic or acute exposure in sensitized persons may cause allergic reaction within minutes or a delayed effect, or a mixture of both. Typical symptoms are respiratory irritation, breathlessness, coughing, tightness and difficulty breathing.

Section 3: Composition and information on ingredients

3.1 Ingredients and composition

Product identifier	CAS/EC/E numbers	Substance name/classification	Concentration
COEFF5 & COEFF2	16731-55-8	Potassium metabisulfite: KHSO_3 Potassium bicarbonate: KHCO_3	50-80 %
	240-795-3		
	E224		
	298-14-6		
	206-059-0		
	E501		20-50 %



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Section 4: First aid measures

4.1 Description of first aid measures

Inhalation: Provide fresh air. In case of respiratory tract irritation, consult a physician.

Skin contact: After contact with skin, wash immediately with plenty of water and soap. Consult a physician.

If on clothing: Brush off in a well-ventilated area. Clean clothing when possible.

Eye contact: If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 15 minutes. Subsequently consult an ophthalmologist. Consult a physician.

Ingestion: Rinse mouth immediately and drink plenty of water. Consult a physician.

4.2 Symptoms caused by exposure

Danger: If swallowed, risk of sulfur dioxide formation by reaction with gastric acid.

May cause respiratory irritation. Eye irritation. Serious damage to eyes. Exposure may lead to allergic sensitization based on the exposure level, duration and susceptibility of the individual. Subsequent chronic or acute exposure in sensitized persons may cause allergic reaction within minutes or a delayed effect, or a mixture of both. Typical symptoms are respiratory irritation, breathlessness, coughing, tightness and difficulty breathing. Can cause eye and skin irritation.

4.3 Medical attention and special treatment

Treat symptomatically. Consult a physician.

Section 5: Firefighting measures

5.1 Suitable extinguishing equipment

Water, carbon dioxide (CO₂), foam, extinguishing powder.

Unsuitable extinguishing media: High powder water jet.

5.2 Specific hazards

In case of fire: Toxic fumes; sulfur oxides may be liberated.

5.3 Special protective equipment and precautions

In case of fire: Wear self-contained breathing apparatus. Danger of slipping by leaked/spilled product.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe dust/vapours. Use personal protection equipment.

6.2 Environmental precautions

Do not allow to enter soil/subsoil. Do not flush into the sewer system or water courses.

6.3 Methods and materials for containment and cleaning up

Avoid dust formation. Collect mechanically. Wash with plenty of water. Ventilate affected area.



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Section 7: Handling and storage

7.1 Precautions for safe handling

Avoid dust formation. Avoid exposure to acids. Avoid contact with skin and eyes. Use only in well-ventilated areas. Inhalation of vapours may cause irritation of the respiratory system. Avoid contact with skin, eyes and clothes. Wear personal protective equipment. Avoid at any time partial heating of the product which would generate a violent exothermic reaction. The product slowly releases sulphur dioxide at ambient temperature.

7.2 Conditions for safe storage

Keep container tightly closed in a cool, dry, dark and well-ventilated place. Keep away from ignition sources, acids, oxidants and heat. In cool climates, the product has to be stored over 10°C to prevent any crystallisation.

Section 8: Exposure controls and personal protection

8.1 Exposure control measures

Potassium metabisulfite

EU – Indicative Occupational Exposure Limit (IOEL)	
IOEL TWA (ppm)	~ 0.5 ppm (SO ₂)
IOEL STEL (ppm)	~ 1 ppm (SO ₂)
Notes	SO ₂
France – Occupational Exposure Limits	
Local name	Sulfur dioxide (CAS:7446-09-5)
VME (OEL TWA)	~ 5 mg/m ³
VME (OEL TWA) (ppm)	~ 2 ppm
VLE (OEL C/STEL)	~ 10 mg/m ³
VLE (OEL C/STEL) (ppm)	~ 5 ppm
Note	Indicative data only
USA ACGIH – Occupational Exposure Limits	
ACGIH OEL STEL (ppm)	0.25 ppm (SO ₂)
Note	SO ₂

8.2 Biological monitoring

None.

8.3 Control banding

None.

8.4 Engineering controls

Adequate ventilation of the work area. Avoid dust formation. Avoid heat, acids and strong oxidants.

8.5 Individual protection measures (PPE)

1. Eye and face protection

Safety glasses – sealed or with side shields. Avoid contact lenses.

2. Skin protection

Protective gloves – chemically resistant.

3. Respiratory protection

Respiratory protection necessary if insufficient ventilation.

Suitable respiratory protection apparatus: Mask with cartridge suitable for sulfur dioxide (SO₂).

4. Thermal hazards

Avoid exposure to heat.

Section 9: Physical and chemical properties

9.1 Appearance

White solid tablets. Pungent odour.

9.2 Physiochemical data

Parameter	Data	At °C	Method	Comment
Auto-ignition temperature	Not determined			
Decomposition temperature	> 150 °C			
Evaporation rate	Not determined			
Flammability	Not determined			
Flash point	Not determined			
Initial boiling point and range	Not determined			
Melting point	> 400 °C			
Freezing point	Not determined			
Odour	Not determined			
Odour threshold	Not determined			
Partition coefficient: n-octanol/water	Not determined			
pH	Not determined			
Density	Not determined			
Solubility	~ 335 g/L in water	20		
Upper/lower flammability or explosive limits	Not determined			
Vapour density	Not determined			
Vapour pressure	Not determined			
Viscosity	Not determined			

9.3 Other information

Omitted data from Table 9.2 indicates that these are not relevant to the safe usage of the product.

Section 10: Stability and reactivity

10.1 Reactivity

The product is non-reactive under normal conditions of use, storage and transport.



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10.2 Chemical stability

Chemically stable under normal conditions of usage.

10.3 Possibility of hazardous reactions

Dangerous reactions with acids, oxidizing agents, nitrites and nitrates.

10.4 Conditions to avoid

Avoid heat, flames, sparks, humidity, moisture and poor ventilation.

10.5 Incompatible materials

Moisture, high temperatures (> 30 °C), strong acids, strong bases, strong oxidants.

10.6 Hazardous decomposition products

Oxides of sulfur (SO₂) can be liberated in case of fire.

Section 11: Toxicological information

11.1 Toxicological information relevant to health hazard category

Parameter	Data/comment
Acute toxicity	May cause a reduction of the oxygen level and an increase of the level of ammonia if poured in water, with negative effects on living organisms.
Skin corrosion/irritation	Irritant.
Serious eye damage/irritation	Irritant. Severe eye irritation. Causes serious eye damage.
Respiratory or skin sensitisation	Irritant. In some cases, repeated exposure may lead to allergic sensitization based on the exposure level, duration and susceptibility of the individual. Subsequent chronic or acute exposure in sensitized persons may cause allergic reaction in minutes or a delayed effect, or a mixture of both. Typical symptoms are respiratory irritation, breathlessness, coughing, tightness in the chest and difficulty breathing.
Germ cell mutagenicity	No data available.
Carcinogenicity	No data available.
Reproductive toxicity	No data available.
Specific target organ toxicity (STOT) – single exposure	May cause respiratory irritation.
Specific target organ toxicity (STOT) – repeated exposure	No data available.
Aspiration hazard	No data available.

11.2 Other information

COEFF

LD₅₀ oral (rat): > 2300 mg/kg.

Potassium metabisulfite (CAS 16731-55-8/E224)

LD ₅₀ oral (rat):	> 2000 mg/kg. OECD guideline 401 (acute oral toxicity)
LD ₅₀ dermal (rat):	> 2000 mg/kg. OECD guideline 402 (acute dermal toxicity)
LD ₅₀ dermal:	> 2000 mg/kg
LC ₅₀ inhalation (rat):	> 5.5 mg/L in air. OECD guideline 403 (acute inhalation toxicity)
LC ₅₀ (fish):	464-1000 mg/L. Test organism: <i>Danio rerio</i> (Previously <i>Brachydanio rerio</i>).
EC ₅₀ (crustacea):	89 mg/L. Test organism: <i>Daphnia magna</i> .
EC ₅₀ (others):	65 mg/L 17 h (bacteria).
EC ₅₀ (alage):	43.8 mg/L 72 h. Test organism: <i>Desmodesmus subspicatus</i> (previously <i>Scenedesmus subspicatus</i>).
NOEC (chronic):	> 10 mg/L. Test organism: <i>Daphnia magna</i> . Duration: 21 d
NOEC (chronic, fish):	> 316 mg/L. Test organism: <i>Danio rerio</i> (Previously <i>Brachydanio rerio</i>). Duration: 34 d.
NOEC (chronic, algae):	> 10 mg/L. Test organism: <i>Daphnia magna</i> .

Section 12: Ecological information

12.1 Ecotoxicity

No data available. The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

12.2 Persistence and degradability

Mineral. Not biodegradable. Chemical oxygen demand (COD): 0.14 g O₂/g.

12.3 Bioaccumulative potential

No bioaccumulation.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available. Do not allow to enter drains or water courses.

12.6 Other information

No data available.

Section 13: Disposal considerations

13.1 Disposal methods

Dispose of unwanted material in accordance with local regulations.

Section 14: Transport information

14.1 UN number

No data available.



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14.2 Shipping or technical name

No data available.

14.3 Transport hazard class

No data available.

14.4 Packing group number

No data available.

14.5 Environmental hazards for transport purposes

No data available.

14.6 Special precautions for user

No data available.

14.7 Additional information

No data available.

14.8 Hazchem or emergency action code

No data available.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations

No data available.

Section 16: Other relevant information

This information is based on our current knowledge. The information is intended to give you advice about the safe handling of the product(s) in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product(s) with other products, or in the case of processing, the information on this safety data sheet may no longer be valid.