

Current version date: 2024/09/01

Revision date: 2028/08/31

SECTION 1. IDENTIFICATION**GHS product identifier:****Identification as on the label/Trade name:** APIS BLOOM®**Other means of identification:****Additional information/Alternative name:** None**Recommended use of the chemical and restrictions on use:****Identified uses:** Pheromone attractant that enhances pollination of flowering crops by honeybees (*Apis* spp.)**Uses advised against:** Use only as directed.**Supplier's details:**

River Bioscience (Pty) Ltd
5th Floor, Fairview House, Fairview Office Building
66 Ring Road,
Greenacres,
Gqeberha,
6045,
South Africa

Emergency phone number:

River Bioscience Head Office: +27 41 373 1409 (office hours)

Griffon Poison Information Centre: +27 82 446 8946 (national / 24 hours)

Poison Information Helpline: +27 861 555 777 (national / 24 hours)

Hazcall24 (Transport / Spill Emergency): +27 860 444 4111 (national / 24 hours)

SECTION 2. HAZARD IDENTIFICATION**Classification of the substance or mixture:****The mixture is classified according to:** United Nations, Globally Harmonized System of Classification, 9th Edition, published 2021.

Hazard classes	Hazard classification category
This mixture does not meet any of the criteria for classification	

GHS label elements, including precautionary statements:

Signal Word: None.

Hazard Statements:

Read the label before use.

Keep out of reach of children and animals.

Hazard pictograms: None.

Precautionary statements: None.

Other hazards which do not result in classification:

None known.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS
Substance/Mixture:

Mixture.

Chemical identity of the ingredients (IUPAC)	CAS –No.	Concentration (% v/v)	Classification
	EC-No.		GHS 9 th Edition
Proprietary mixture of terpenes (containing honeybee pheromone)	N/A	10.0	No information available
	N/A		
Inert ingredients (Wax, oil, and water emulsion)	N/A	90.0	No information available
	N/A		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

SECTION 4. FIRST AID MEASURES
Description of necessary first aid measures:

In case of inhalation: If inhaled, remove person to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. In case of discomfort seek medical attention.

In case of skin contact: If skin irritation or rash occurs, wash with plenty of soap and water. Take off contaminated clothing and wash it before re-use. Seek medical advice if symptoms persist.

In case of eye contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. Seek medical advice if symptoms persist.

In case of ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical attention if you feel unwell.

Most important symptoms/effects, acute and delayed:

None known.

Indication of immediate medical attention and special treatment needed, if necessary:

None known.

SECTION 5. FIRE-FIGHTING MEASURE

Extinguishing media:

Suitable extinguisher media: Use foam, dry chemical powder or carbon dioxide.

Unsuitable extinguishing media: None known.

Special hazards arising from the mixture:

This product is not classified as flammable or combustible.

Special protective actions for fire-fighters:

Do not attempt to take action without suitable protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Avoid contact with eyes, skin, and clothing. Wear suitable protective clothing. Follow the manufacturer's instructions for cleaning and maintaining PPE. If not such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Avoid contact with eyes, skin, and clothing. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

For emergency responders: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Avoid contact with eyes, skin, and clothing. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental precautions:

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Incidental applications to water under tree canopy are not considered to be a direct application to water but should be avoided if practicable. Spray valves must be shut off when passing over surface water and not under the canopy. Do not contaminate water when cleaning equipment or disposing of equipment wash water or rinsate.

Methods for containment and cleaning up:

For small spills: In case of leak or spill, wipe with paper towel and dispose of waste when product hardens. Clean equipment with water and citrus or limonene detergents.

For large spills: Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain spilled material if possible and dispose of waste when product hardens. Collect in suitable and properly labelled containers. Scrub area with water and soap or citrus or limonene detergent. Dispose of containers in accordance with national legislation.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

Additional information:

None know.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid contact with eyes, skin, and clothing. Wear suitable protective clothing. Follow the manufacturer's instructions for cleaning and maintaining PPE. If not such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes on skin or clothing.

Advice on general safe handling: Read the label before use. Use only as directed.

Advice on general occupational hygiene: Do not eat, drink or smoke whilst mixing or applying, nor before washing hands and face. Handle in accordance with good industrial hygiene and safety practices.

Conditions for safe storage, including incompatibilities:

Specific storage requirements: Keep only in the original container in a cool, well-ventilated place away from direct sunlight. Store in a dry place. For optimal shelf life, store at temperatures not exceeding 25°C. Do not freeze.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Occupational exposure limits (OEL): None known.

Biological exposure indices (BEI): None known.

Additional exposure limits under the specific conditions of use: None known.

Appropriate engineering controls:

No particular/specific measures required.

Individual protection measures, such as personal protective equipment (PPE):

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Ensure that eyewash stations are close to the workstation location.

Skin protection: Wear appropriate clothing for task or operation. In case of repeated or prolonged contact wear gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Keep working clothes separately. Wash hands, forearms, and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Ensure that safety showers are close to the workstation location.

Respiratory protection: For most conditions no, respiratory protection should be needed; however, if discomfort is experienced or when the Risk Assessment shows respiratory protection is required, use an approved air-purifying respirator.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties:**

Physical state: Paste.

Colour: Pink or white.

Odour: Floral.

Melting point/Freezing point (°C): Not applicable.

Boiling point/range (°C): > 100°C.

Flammability: Not flammable.

Upper/lower flammability/explosive limits: Not applicable.

Flash point (°C): Not applicable.

Auto-ignition temperature (°C): Not applicable.

Decomposition temperature: Not applicable.

pH (at concentration): No data available.

Viscosity (dynamic) (cP): Not applicable.

Water solubility (g/l) at 20°C: Partially soluble in water.

n-Octanol / Water partition coefficient: Not applicable.

Vapour pressure (20°C): Not applicable.

Density / relative density (20°C) (g/ml): Not applicable.

Relative vapour density: Not applicable.

Particle characteristics (nm): Not applicable.

Physical hazards:

None known

SECTION 10. STABILITY AND RELIABILITY**Reactivity:**

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

Chemical stability:

Minimum 24 months shelf life if stored under recommended conditions.

Possibility of hazardous reactions:

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:

None known.

Incompatible materials:

None known.

Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11. TOXICOLOGICAL INFORMATION**Toxicokinetics, metabolism and distribution:**

Non-human toxicological data: No information available.

Method: No information available.

Dosage: No information available.

Routes of administration: No information available.

Results: No information available.

Absorption: No information available.

Distribution: No information available.

Metabolism: No information available.

Excretion: No information available.

Information on toxicological health effects:

Acute toxicity:

Acute oral LD50 rats > 5000 mg/kg (tested result).

Dermal LD50 rats > 2000 mg/kg (tested result).

Inhalation LC50 (Not an expected exposure route).

Skin corrosion/irritation: Not classified according to available test data.

Serious eye damage/irritation: Not classified according to available test data.

Respiratory or skin sensitization: Not classified according to available test data.

Germ cell mutagenicity: Not classified.

Carcinogenicity: Not known for mixture.

Proprietary mixture of terpenes: This component is not listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, OSHA or the EU CLP.

Reproductive toxicity: Not classified.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Aspiration hazard: No information available.

Information on the likely routes of exposure:

No information available.

Symptoms related to the physical, chemical, and toxicological characteristics:

No known symptoms.

Delayed/Immediate/Chronic effects from short- and long-term exposure:

No information available.

Numerical measures of toxicity (ATE):

ATE Calculation not required.

Interactive effects:

No information available.

Other information:

None.

SECTION 12. ECOLOGICAL INFORMATION

Information on ecotoxicological effects:

Toxicity: No information available.

Persistence and degradability: No information available.

Bio-accumulative potential: No information available.

Mobility in soil: No information available.

Other adverse effects: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Incidental applications to water under tree canopy are not considered to be a direct application to water but should be avoided if practicable. Do not contaminate water when cleaning equipment or disposing of equipment wash water or rinsate.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods:

Treat as hazardous waste and dispose of in accordance with national or international regulations as appropriate.

Container disposal methods: Scrape any remaining product out of the container with a spatula or other appropriate tool. Rinse empty container three times with a volume of water equal to 10% of the volume of the container. Do not re-use packaging for any other purpose. Destroy empty container and discard in adherence with national legislation.

Physical/chemical properties affecting disposal: None known.

Special precautions for incineration or landfill: Do not burn container or product. Recycle as far as possible.

SECTION 14. TRANSPORT INFORMATION

Transporting/Shipping information:

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	Not regulated	Not regulated	Not regulated
UN Proper shipping name:	Not required	Not required	Not required
Transport hazard class:	Not required	Not required	Not required
Packaging group:	Not required	Not required	Not required

Environmental hazards:	No	No	No
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to IMO instruments:	Not required	Not required	Not required

Keep stored at 25°C. Do not freeze.

SECTION 15. REGULATORY INFORMATION

Safety, health, and environmental regulations specific for the product in question:

Regulatory status of the substance/mixture: Not regulated in the country of distribution.

Relevant safety/health/environmental regulations: The labels and SDS of this product complies with the Occupational Health and Safety Act, 1993 (Act N 85 of 1993), and the Regulations for Hazardous Chemical Agents, 2021, in South Africa.

SECTION 16. OTHER INFORMATION

Preparation date and revision number:

Current version date:	Current version:
2023/07/01	1.0 / 2023
2024/09/01	1.0 / 2024

Revision changes: Section 1: Update of emergency phone numbers, Section 16: Further information, and notice to readers added.

Further information:

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers:

Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.