

Current version date: 2023/08/01
Revision date: 2028/07/31

SECTION 1. IDENTIFICATION

GHS product identifier:

Identification as on the label/Trade name: RB SPLAT FCM™

Other means of identification:

Additional information/Alternative name: None

Recommended use of the chemical and restrictions on use:

Identified uses: Pheromone lure polymer matrix for the mating disruption of false codling moth in various crops.

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:

+27 41 492 4216 (office 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
Acute toxicity inhalation	Category 4
Aspiration toxicity	Category 2
Skin irritation	Category 3
Eye irritation	Category 2B

GHS label elements, including precautionary statements:

Signal Word: Warning.

Hazard Statements:

Harmful if inhaled.

May be harmful if swallowed and enters airways.

Causes mild skin irritation.

Causes eye irritation.

Hazard pictograms: Health hazard.

Precautionary statements:

Avoid breathing spray.

Use only outdoors in a well-ventilated area.

Wash hands and face thoroughly after handling. Do not touch eyes.

Wear protective clothing.

Store locked up.

Dispose of contents in adherence with local regulations.

Other hazards which do not result in classification:

None.

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
(E)-8-Dodecen-1-yl-acetate	38363-29-0	<15%	Causes skin irritation
	253-904-4		
(Z)-8-Dodecen-1-yl-acetate	28079-04-1	<15%	No hazards identified
	248-823-6		
Wax, oil and water emulsion	N/A	N/A	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 comfortable for breathing and get medical help.

In case of skin contact: Take off contaminated clothing. Wash skin immediately with soap and water, then rinse with plenty of water for 15-20minutes. Call a doctor for treatment advice.

In case of eye contact: If in eye, rinse cautiously with water for several minutes. Removed contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical help.

In case of ingestion: If swallowed, get emergency help immediately. Do NOT induce vomiting.

Most important symptoms/effects, acute and delayed:

Harmful if inhaled.

May be harmful if swallowed and enters airways.

Causes mild skin irritation.

Causes eye irritation.

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

Treat symptomatically.

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:

Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons, and other products of combustion.

Special protective actions for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent. Water spray should only be used to keep fire-exposed containers cool, flush spills away from exposures, disperse vapours and protect personnel attempting to stop leak. Prevent run-off from fire control or dilution from entering streams, municipal sewers, or drinking water supply.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Applicators and other handlers must wear appropriate personal protective equipment (PPE). 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 and skin. 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 and skin. 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:**

Applicators and other handlers must wear appropriate personal protective equipment (PPE). 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: Store product sealed and refrigerated, if possible. Do not store with food. Store product in a cool dry place, out of direct sunlight. Do not exceed 23°C for long-term storage. Shelf-life of 2 years from date of manufacture if stored at 4-8°C.

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:

Safety shower and eye wash.

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. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection: Use safety glasses. 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. Use latex or nitrile 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: Solid.

Colour: Grey.

Odour: Fatty, waxy.

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

Boiling point/range (°C): Not applicable.

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): 7.5.

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): Specific density - 0.93g/cm³ (25°C).

Relative vapour density: Not applicable.

Particle characteristics (nm): Not applicable.

Physical hazards:

None known

SECTION 10. STABILITY AND RELIABILITY

Reactivity:

No dangerous reaction known under conditions of normal use.

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:

High temperatures, sparks, open flames and live electrical circuits.

Incompatible materials:

Oxidisers and strong acids.

Hazardous decomposition products:

In case of fire oxides of carbon, fumes or vapours, soot and smoke may 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 for similar mixture).

Dermal LD50 rats >5050 mg/kg (tested result for similar mixture).

Inhalation LC50 rats >2.07 mg/L of air (tested result for similar mixture).

Skin corrosion/irritation: Causes mild skin irritation.

Serious eye damage/irritation: Causes eye irritation.

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.

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: 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 4-8°C.

SECTION 15. REGULATORY INFORMATION

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

Regulatory status of the substance/mixture: Registered under the "Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act No 36 of 1947), regulating agricultural remedies in South Africa.

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:
2022/07/01	1.0 / 2022
2023/07/01	1.0 / 2023

Revision changes:

Section 1: Update of supplier details and emergency phone number

Section 3: Correction of second substance in chemical details table from (E) to (Z)

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.