

SECTION 1: Identification

1.1. Product identifier

Product form : Mixture
Trade name : *Helicoverpa armigera* lure
Other means of identification : African / Cotton bollworm lure

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

Recommended use : Agricultural monitoring
Restrictions on use : No other uses are recommended

1.3. Supplier's details

Semiochem International (Pty) Ltd
Portion 5, Erf 2640 New Industrial area,
Tzaneen Limpopo
South Africa

1.4. Emergency telephone number

Emergency number : For 24/7 multilingual advice for spill, leak, fire, exposure, or accident call CHEMTREC at 080 001 4676 (South Africa) and provide CCN 1021032
Back-up Emergency Number: +44 20 3885 0382 (London, multilingual) +1-703-527-3887 (United States, answered in English, request other languages)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to the United Nations GHS

Not classified

2.2. Label elements

Labelling according to the United Nations GHS

No labelling applicable

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%	Classification according to the United Nations GHS
Polymer composed of modified polyisoprene	-	90-100	Not classified

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According to SANS 10234:2019 and SANS 11014:2010

Name	Product identifier	%	Classification according to the United Nations GHS
African / Cotton bollworm attractant blend	-	0,1-1	Flam. Liq. 4, H227 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 1, H410
Butylated hydroxytoluene (BHT)	-	<0,1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Comments : *Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: First aider: Pay attention to self-protection. Never give anything by mouth to an unconscious person. Give artificial respiration if necessary. Induce artificial respiration with mask fitted with one-way valve or other suitable device but, not mouth-to-mouth. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry chemical, CO ₂ , alcohol-resistant foam or waterspray.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Thermal decomposition generates: Carbon oxides (CO, CO ₂).

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According to SANS 10234:2019 and SANS 11014:2010

5.3. Advice for firefighters

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| Firefighting instructions | : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers. Use extinguishing media appropriate for surrounding fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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| General measures | : Avoid all personal contact including breathing in the mist, spray, vapours. Do not take actions involving personal risks. Stop leak if safe to do so. Absorb spillage to prevent material damage. Notify authorities if product enters sewers or public waters. |
| 6.1.1. For non-emergency personnel | |
| Protective equipment | : Wear recommended personal protective equipment. |
| Emergency procedures | : Evacuate the danger area. If outdoors, move to an area upwind of the danger area. Avoid breathing mist, spray, vapours. Avoid contact with skin, eyes and clothing. Ventilate spillage area. Prevent other non-emergency personnel from entering the danger area. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. Wear recommended personal protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Evacuate unnecessary personnel. Do not touch spilled material. Stop leak if safe to do so. Ventilate spillage area. Prevent runoff from entering drains, sewers or waterways. |

6.2. Environmental precautions

Avoid release to the environment. Do not let the product reach soil, drains, sewers, or surface and ground water.

6.3. Methods and material for containment and cleaning up

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| For containment | : Stop leak without risks if possible. Contain with non-combustible inert absorbent. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| Methods for cleaning up | : Take up in non-combustible inert absorbent and place into container for disposal. Decontaminate surfaces and equipment with water and detergent. Dispose of collected material as soon as possible in accordance with applicable local/regional/national/international regulations. Notify authorities if product enters sewers or public waters. |

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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| Precautions for safe handling | : Ensure good ventilation of the work station. Use only outdoors or in a well-ventilated area. Wear personal protective equipment. Avoid breathing mist, spray, vapours. Avoid contact with eyes, skin and clothing. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. |
| Additional hazards when processed | : Not expected to present a significant hazard under anticipated conditions of normal use. |

7.2. Conditions for safe storage, including any incompatibilities

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| Storage conditions | : Store in a cool, dry and well-ventilated area away from incompatible substances. Keep container tightly closed. Store in freezer. |
| Incompatible materials | : Oxidizing agents. |
| Packaging materials | : Always store product in container of same material as original container. |

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According to SANS 10234:2019 and SANS 11014:2010

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Butylated hydroxytoluene (BHT)

South Africa - Occupational Exposure Limits (Airborne Pollutants)

OEL TWA	10 mg/m ³
Regulatory reference	Government Notice No. R 904

8.2. Appropriate engineering controls

Appropriate engineering controls	: Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
Environmental exposure controls	: Avoid release to the environment. Take measures to reduce or limit air emissions and releases to soil and the aquatic environment.

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

Personal protective equipment:

Wear recommended personal protective equipment. Personal protective equipment should be chosen according to national standards and in discussion with the supplier of the protective equipment.

Hand protection	: Nitrile rubber gloves
Eye protection	: No special eye protection equipment recommended under normal conditions of use
Skin and body protection	: Body protection should be chosen depending on activity and possible exposure
Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment

8.4. Exposure limit values for the other components

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid impregnated into a device.
Colour	: Multicolored
Odour	: Waxy
Odour threshold	: No data available
pH	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 116 – 132 °C / 240 - 269 °F
Flash point	: > 110 °C / > 230 °F
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability	: Not flammable
Vapour pressure	: No data available
Vapour pressure at 50°C	: No data available
Relative vapour density at 20°C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available
Density	: 1,45
Relative gas density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Partition coefficient n-octanol/water (Log Kow)	: No data available

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Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

10.2. Chemical stability

Stable under normal conditions. Stable under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Incompatible materials.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition generates: Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Butylated hydroxytoluene (BHT)	
LD50 oral rat	> 6000 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight

Skin corrosion/irritation	: Not classified
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Butylated hydroxytoluene (BHT)	
Skin corrosion/irritation, rabbit	Negative
Skin corrosion/irritation, human	Mildly irritating

Serious eye damage/irritation	: Not classified
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Butylated hydroxytoluene (BHT)	
Serious eye damage/irritation, rabbit	Moderate eye irritation

Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

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Butylated hydroxytoluene (BHT)	
NOAEL (chronic, oral, animal/male, 2 years)	25 mg/kg bodyweight
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified
STOT-single exposure : Not classified

African / Cotton bollworm attractant blend	
STOT-single exposure	Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute) : Not classified.
Hazardous to the aquatic environment, long-term (chronic) : Not classified.

Butylated hydroxytoluene (BHT)	
LC50 - Fish [1]	> 0,57 mg/l
EC50 - Crustacea [1]	0,48 mg/l
EC50 72h - Algae [1]	> 0,4 mg/l
LOEC (chronic)	1 mg/l
NOEC (chronic)	0,023 mg/l

12.2. Persistence and degradability

Helicoverpa armigera lure	
Persistence and degradability	Not established.
Butylated hydroxytoluene (BHT)	
Persistence and degradability	Not readily biodegradable.
African / Cotton bollworm attractant blend	
Persistence and degradability	Not rapidly degradable
Polymer composed of modified polyisoprene	
Persistence and degradability	Not rapidly degradable

12.3. Bioaccumulative potential

Helicoverpa armigera lure	
Bioaccumulative potential	No additional information available

12.4. Mobility in soil

Helicoverpa armigera lure	
Mobility in soil	No additional information available

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According to SANS 10234:2019 and SANS 11014:2010

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : Disposal must be done according to official regulations. Dispose of in accordance with applicable federal, state, and local regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations. Dispose in a safe manner in accordance with local/national regulations.
Ecological waste information : Avoid release to the environment.
Additional information : Do not re-use empty containers.

SECTION 14: Transport information

In accordance with SANS / UN RTDG / IMDG / IATA

SANS	IMDG	IATA
14.1. UN number		
Not applicable	Not regulated	Not regulated
14.2. Proper Shipping Name		
Not applicable	Not regulated	Not regulated
14.3. Transport hazard class(es)		
Not applicable	Not regulated	Not regulated
14.4. Packing group		
Not applicable	Not regulated	Not regulated
14.5. Environmental hazards		
Not applicable	Not regulated	Not regulated
No supplementary information available		

14.6. Special precautions for user

SANS
Not applicable

IMDG
Not regulated

IATA
Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. National regulations

15.1.1. OCCUPATIONAL HEALTH AND SAFETY ACT, 1993

Prohibited Hazardous Chemical Agents

Not regulated

15.1.2. National Environmental Management Act, 1998

Regulation No. 51358 (Prior Informed Consent Procedure Regulations, 2024)

Not regulated

15.2. Safety, health, and environmental national regulations specific for the product

No additional information available

SECTION 16: Other information

Issue date : 2026/05/28

Full text of H-statements	
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Safety Data Sheet (SDS), South Africa

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.