



# MATERIAL SAFETY DATA SHEET

## ECO FRUITFLY BAIT 120

**Date Issued:** April 2014 and is valid for 3 years from this date.

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### 1. PRODUCT AND COMPANY IDENTIFICATION

**TRADE NAME:** ECO FRUITFLY BAIT 120

**SUPPLIER:** EFEKTO

PO BOX 652147

BENMORE

2010

**TEL No.** 011 287 5700

**EMERGENCY TELEPHONE NUMBERS:**

**SPILLAGES:** 083 1233 911

**Fax:** 086 685 3129

**POISONINGS:**

**National Poison Centre** 021-9386084 (office hours).

021-9316129 (after hours).

082 446 8946

**Use:** This is organic insecticide bait for the control of fruit flies.

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### 2. HAZARDS IDENTIFICATION

**Environment:**

- May cause eye and skin irritation.

**Likely routes of exposure:**

Skin and eye contact, ingestion and inhalation.

**Eye:** May cause moderate eye irritation. Corneal injury is unlikely

**Skin contact:** Brief contact may cause slight skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. Did not cause allergic skin reactions when tested in guinea pigs.

**Ingestion:** Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury

**Inhalation:** Excessive exposure may cause irritation to upper respiratory tract (nose and throat).

**Cancer information:** Spinosad did not cause cancer in laboratory animals.

**Teratology (Birth defects):** Spinosad did not cause birth defects or any other fetal effects in laboratory animals, even at exposure levels having an adverse effect on the mother.

**Reproductive effects:** In laboratory animal studies on spinosad, effects on reproduction were seen only at doses that produced significant toxicity to the parent animals.

**Mutagenicity:** For spinosad A, in-vitro and animal genetic toxicity studies were negative.



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**Symbols:** None.  
**Risk-Phrase(s):** None applicable  
**UN No.:** Not regulated for any mode of transport

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Active ingredients:

Active ingredients.	CAS No.:	EINECS No.
Spinosyn A	131929-60-7	-
Spinosyn D 0.24 g/l	131929-63-0	-
Inerts	Trade secret	-

**Chemical Names:** 2-((6-Deoxy-2,3,4-tri-O-methyl- $\alpha$ -Lmannopyranosyl)oxy)-13-((5-(dimethylamino)tetrahydro-6-methyl-2Hpyran-2-yl)oxy)-9-ethyl 2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16btetradecahydro-14-methyl-1H-asindaceno(3,2-d)oxacyclododecin-7,15-dione (IUPAC) plus 2-((6-Deoxy-2,3,4-tri-O-methyl- $\alpha$ -Lmannopyranosyl)oxy)-13-((5-(dimethylamino)tetrahydro-6-methyl-2Hpyran-2-yl)oxy)-9-ethyl-2,3,3a,5a,5b,6,9,10,11,12,13,14,16a,16btetradecahydro-4,14-dimethyl-1H-asindaceno(3,2-d)oxacyclododecin-7,15-dione (IUPAC)

**Chemical Family:** Consists of two naturally occurring metabolites from the soil bacterium, *Saccharopolyspora spinosa*.

**Chemical Formula:** None

**NIOSH/RTECS No.:** -

### 4. FIRST-AID MEASURES

**Eye:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Skin:** Wash skin with plenty of water.

**Ingestion:** Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Note to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media:** To extinguish residues of this product use water fog, carbon dioxide, dry chemical or foam.



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**Fire and explosion hazards:** This material does not burn.

**Fire-fighting equipment:** Wear positive-pressure, self-contained breathing apparatus (SCBA) and protective fire-fighting clothing (includes fire-fighting helmet, coat, pants, boots, and gloves). This material does not burn. Fight fire for other material that is burning.

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### 6. ACCIDENTAL RELEASE MEASURES

**Action to take for spills/leaks:** Use non-reactive absorbent to absorb small spills and collect for disposal.

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### 7. HANDLING AND STORAGE

**Handling:**

Keep out of reach of children. Avoid eye contact. Do not take internally. Wash thoroughly after handling and before eating, drinking, or smoking.

**Storage:**

Store product in original container.

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### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure guidelines:**

Spinosad: Dow Agrosiences Industrial Hygiene Guide is 0,3 mg/m<sup>3</sup>, TWA

**Engineering controls:**

Good general ventilation should be sufficient.

**Respiratory protection:**

No respiratory protection should be needed.

**Hand/Skin protection:**

Use protective clothing impervious to this material. Selection of specific items will depend on operation.

**Eye/Face protection:**

Eye protection should not be necessary, but chemical goggles is recommended.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Viscous liquid

**Colour:** Brown; may darken with time and temperature

**Odour:** Vinegar

**Flash point:** >100 deg.C

**Water solubility:**soluble

**Rel. density (water=1):** 1.20 g/cm<sup>3</sup> (20 deg.C)

**Explosive properties:** not explosive

**Ph:** 4.7 (1% aq. sol.)

**Log Pow:** < 3

**BCF:** < 100

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### 10. STABILITY AND REACTIVITY



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**Chemical stability:** Is stable under normal storage conditions.  
**Conditions to avoid:** None known.  
**Materials to avoid:** Strong basic, acidic or oxidising materials.  
**Hazardous Decomposition Products:** None under normal conditions of storage and use.

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### 11. TOXICOLOGICAL INFORMATION

**Ingestion:**

Low toxicity if swallowed.

**The oral LD<sub>50</sub> for rats:** >5000 mg/kg.

**Skin Contact:**

**The dermal LD<sub>50</sub> for rabbits:** >5000 mg/kg.

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

May cause slight skin irritation with local redness.

**Sensitisation:**

Non-sensitising to guinea pig skin.

**Eye Contact:**

May cause moderate eye irritation. Corneal injury is unlikely.

**Inhalation:**

Excessive exposure may cause irritation to upper respiratory tract(nose and throat).

**Mutagenicity:**

For Spinosad A invitro and animal genetic toxicity studies were negative.

**Carcinogenicity and teratogenicity:**

Spinosad does not cause cancer or cause birth defects.

**Reproductive effects:**

Effects on reproduction were only seen in laboratory animals at doses that produced significant toxicity to parent animals.

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### 12. ECOLOGICAL INFORMATION

Assessment largely or completely based on data for active ingredient.

**Persistence and Degradability**

**Spinosyn A:**

Half-life in soils is dependent on soil type and conditions and is approximately 9-17 days.

**Spinosyn D:**

Half-life in soils is dependent on soil type and conditions and is approximately 14 days.

**Aquatic Toxicity**

For aquatic organisms, material is expected to be of low toxicity.(LC<sub>50</sub> or EC<sub>50</sub> is > 100 mg/l)

**Avian Toxicity**

For birds, material is expected to be of low toxicity.

**Bees LD<sub>50</sub>:** >100,0 µg/Bee

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### 13. DISPOSAL CONSIDERATIONS



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Do not contaminate ponds, waterways or ditches with chemical or used container. Wash out container or application equipment thoroughly. Container and washings must be disposed of safely and in accordance with applicable regulations. Do not re-use container for any purpose.

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### 14. TRANSPORT INFORMATION

**UN NUMBER:** Not regulated for any mode of transport.

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### 15. REGULATORY INFORMATION

**Hazard Symbol :** None required

**Risk Phrases :** None required.

**Safety Phrases :**

**S2** Keep out of reach of children.

**S13** Keep away from food, drink and animal feeding stuffs.

**National Legislation:** In accordance with the South African National Road Traffic Act, 1996 (Act 93 of 1996), the Fire Brigade Act, 1987 (Act 99 of 1987) and the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993)

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### 16. OTHER INFORMATION

**Compiled by:** Danie Fourie

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

It is the responsibility of persons in receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces formulations(s) containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.

### REFERENCES

- Dow Agrosiences data.
- ADR 2011, Part 3.
- IMDG Code, 2005 Edition, Vol. 2.
- IATA Dangerous goods regulations, Effective 1 January 2011

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**END OF MSDS.**