

BUFFALO 100 OD MATERIAL SAFETY DATA SHEET

SECTION-1

PRODUCT /COMPANY IDENTIFICATION

| | | |
|--------------------------|---|---|
| Product Name | : | BUFFALO 100 OD |
| Active Ingredient | : | Imidacloprid 75 g/L + Beta-Cyfluthrin 25 g/L OD |
| IUPAC Name | : | Imidacloprid: (E)-1-(6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine. Beta-Cyfluthrin: 3-(2,2-dichloro-vinyl)-2,2-dimethyl-cyclopropane-carboxylic acid cyano-(4-fluoro-3-phenoxy-phenyl)-methyl ester. |
| Chemical family | : | Imidacloprid: Neonicotinoid Beta-Cyfluthrin: Pyrethroid |
| CAS No | : | Imidacloprid: 138261-41-3 Beta-Cyfluthrin: 68359-37-5 |
| Type of Formulation | : | Oil Dispersion (OD) |
| Indented Use | : | Commercial Insecticide |
| Company/Supplier details | : | SINERIA HOLLAND BV. Randwycksingel 20-A015 6229 EE, Maastricht. The Netherlands www.sineria.com |

SECTION-2

COMPOSITION/ INFORMATION ON INGREDIENTS

| Active Ingredient | CAS No | QTY (g/L) |
|-------------------|-------------|-----------|
| Imidacloprid | 138261-41-3 | 75 g/L |
| Beta-Cyfluthrin | 68359-37-5 | 25 g/L |

SECTION-3

HAZARD IDENTIFICATION

Pictograms



H-Statements

- H332 : Harmful if inhaled
H400 : Very toxic to aquatic life
H410 : Very toxic to aquatic life with long lasting effects

Precautionary Statements

- P261 : Avoid breathing mist
P304 + P340 : If Inhaled: Remove person to fresh air and keep comfortable for breathing
P312 : Call a POISON CENTER/doctor/physician if you feel unwell.
P501 : Dispose of contents/container in accordance with local regulation

SECTION-4

FIRST AID MEASURES

- General Advice : In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).
First aider: Pay attention to self-protection!.
- If ingestion : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.
- If inhaled : If product is inhaled, remove person to fresh air. If not breathing, give artificial respiration. Seek medical attention if breathing problems develop.
- If on skin : Remove contaminated clothing. Wash skin and hair thoroughly; do two soap and water washings.
- If in eyes : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Note to physicians : Treat symptomatically

SECTION-5

FIRE FIGHTENING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment
- Specific hazards arising from the chemical : No specific hazard known.
- Firefighting Instructions : Fire fighters should wear full protective gear, including self-contained breathing apparatus. Keep unnecessary people away. If it can be done safely, remove intact containers from the fire.
- In the event of fire, wear self-contained breathing apparatus.
- In the event of fire and/or explosion do not breathe fumes.

SECTION-6

ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : In case of spillage it is important to take all steps necessary to: Avoid contact with the spilled material or contaminated surfaces.
- Extinguish or remove any sources of ignition. When dealing with spills do not eat, drink or smoke and wear protective clothing and equipment. Keep people and animals away. Prevent spilled material from entering drains or watercourses.
- Environmental precautions : Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.
- Reposition any leaking containers so as to minimize leakage. Dam and absorb spill with an absorbent material (eg. sand or soil). Shovel the absorbed spill into drums
- Methods and materials for containment and cleaning up : Contain spill and absorb with earth, sand, clay, or other absorbent material. Collect and store in properly labelled, sealed drums for safe disposal. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations If contamination of drains, streams, water courses is unavoidable, warn the local water authority.

SECTION-7

HANDLING AND STORAGE

- Precautions for safe handling : Safe work practices are recommended. Avoid contact with eyes and skin.
- When opening the container and preparing spray wear appropriate PPE (refer Section 8).
- Do not spray under high wind conditions.
- Conditions for safe storage : Keep out of reach of children, unauthorized persons and animals.
- Store in tightly sealed original containers in a dry secure place away from fertilizers, feed and food.
- Incompatibilities : Store out of direct sunlight and extreme temperature.

SECTION-8

EXPOSURE CONTROLS AND PERSONAL PROTECTION

- Engineering controls : Use only with adequate ventilation. Keep container tightly closed. Do not generate dust.

Personal protective equipment (PPE)

- Respiratory protection : Use NIOSH/MSHA approved respirator appropriate for exposure of concern.
- Hand protection : Protective gloves
- Eye protection : Wear safety glasses with side shields. Additionally, wear a face shield where the possibility exists for face contact due to splashing, spraying or airborne contact with this material.
- Skin and body protection : Where there is potential for skin contact have available and wear as appropriate impervious gloves, apron, pants, and jacket.

SECTION-9

PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : White to beige suspension
- Odor : Characteristic
- pH : 6-9
- Solubility (Water) : Miscible
- Explosive Properties : Non-Explosive
- Oxidizing properties : Not oxidizing
- Stability : Stable under normal temperature and pressure

SECTION-10

STABILITY & REACTIVITY

- Possibility of Hazardous Reactions : No dangerous reaction known under conditions of normal use and storage conditions.
- Chemical Stability : This product is chemically stable under recommended conditions of storage, use and temperature.
- Conditions to Avoid : Protect this product from light. Store in the closed original container in a dry, cool, well ventilated area out of direct sunlight.
- Incompatible materials : Strong acids, strong bases, strong oxidizing agents.
- Polymerization : This product will not undergo polymerization reactions.
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SECTION-11

TOXICOLOGICAL INFORMATION

Based A.I. Information

Imidacloprid

- Acute oral LD₅₀, mg/kg rats : 450
- Acute dermal LD₅₀, mg/kg rabbits : >5000 (24h)
- Acute Inhalation LD₅₀, mg/kg rat : > 5.32 (4h)
- Skin Irritation (rabbits) : Not an irritant
- Eye Irritation (rabbits) : Not an Irritant
- Skin Sensitization (guinea pigs) : Not a sensitizer

Beta-Cyfluthrin

- Acute oral LD₅₀, mg/kg rats : 500
- Acute dermal LD₅₀, mg/kg rabbits : >5000
- Acute Inhalation LD₅₀, mg/L, rats : >4.05
- Skin Irritation (rabbits) : Not an irritant
- Eye Irritation (rabbits) : Not an irritant
- Skin Sensitization (guinea pigs) : Not a sensitizer
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SECTION-12

ECO-TOXICOLOGICAL INFORMATION

Based A.I Information

Imidacloprid

| | | |
|--|---|--------------------------------|
| Acute oral LD ₅₀ for Japanese quail | : | >31 mg/kg |
| Acute oral LD ₅₀ for Bobwhite quail | : | >152 mg/Kg |
| Rainbow trout LC ₅₀ , (96h) | : | >211 mg/L |
| Daphnia EC ₅₀ (48h) | : | > 85.0 mg/L |
| Algae EC ₅₀ (72h) P. Subcapitata | : | >100mg/L |
| Bees LD ₅₀ , µg/bee | : | 0.0037 (oral); 0.081 (contact) |
| Worms LC ₅₀ for Eisenia Fetida | : | 10.7 mg/kg |

Beta-Cyfluthrin

| | | |
|--|---|------------------------------|
| Acute oral LD ₅₀ for Bobwhite quail | : | >2000 mg/Kg |
| Rainbow trout LC ₅₀ , (96h) | : | >0.00047 mg/L |
| Daphnia LC ₅₀ (48h) | : | >0.00016 mg/L |
| Bees (LD ₅₀ , µg/bee) (48h) | : | 0.001 (Contact); 0.05 (oral) |
| Algae EC ₅₀ (96h) S. Subspicatus | : | > 10mg/L |
| Worms (LC ₅₀ for Eisenia Fetida) | : | >1000 mg/kg soil |

DISPOSAL CONSIDERATIONS

SECTION-13

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|-------------------------------------|---|---|
| Waste from residues/unused products | : | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated packaging | : | Improper disposal or reuse of this container may be dangerous and illegal. |

SECTION-14

TRANSPORT INFORMATION

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|-------------------------------|---|--|
| General Transport Information | : | It is considered good practice not to transport agricultural chemical products with food, food related materials and animal feed products. |
| Proper shipping Name | : | Environmentally Hazardous Substance Liquid N.O.S |
| [Land/Air/Sea] | : | (Contains Imidacloprid and Beta-Cyfluthrin) |
| UN Number | : | 3082 |
| Class | : | 9 |
| Packing group | : | III |

SECTION-15

REGULATORY INFORMATION

GHS07: Harmful

GHS09: Environmental hazard

H-Statements

| | | |
|------|---|--|
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Precautionary Statements

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| P304 + P340 | : | If Inhaled: Remove person to fresh air and keep comfortable for breathing |
| P312 | : | Call a POISON CENTER/doctor/physician if you feel unwell. |
| P501 | : | Dispose of contents/container in accordance with local regulation |
| P261 | : | Avoid breathing mist |

SECTION-16 OTHER INFORMATION

The information contained in the Material Safety Data Sheet is correct to the best of our knowledge at the date of issue. It is intended as a guide for the safe use, handling, disposal, storage and transportation and is not intended as a warranty or as a specification. The information relates only to the product specified and may not be suitable for with other materials or in processes other than those specifically described herein.

Supplier make no warranty, express or implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.
