

SAFETY DATA SHEET

Safety data sheet for chemical products according to EC-directive 2001/58/EC
Issued: July 24, 1995 – Revised: March 29, 2007 Page 6/1

LURECTRON FLYBAIT (NL)

1. Chemical product and company identification

Trade name : Lurectron Flybait
Use : Insecticidal use on cattle farms
Manufacturer : Denka International B.V.
Hanzeweg 1
3771 NG Barneveld
The Netherlands
telephone +31.342.455455
telefax +31.342.490587

Emergencies : In case of emergency contact the nearest toxicological information institute. Physicians only.

2. Composition - information on ingredients

Ingredient	EEC no.	CAS no.	Symbols	R-phrases*	Content
					%
Methomyl	240-815-0	16752-77-5	T+, N	28-50/53	1,0
Other ingredients	-	-	-	-	99,0

*R-phrases are explained in section 16 hereof.

3. Hazard identification

Hazards to human health : Lurectron Flybait contains a low percentage (1%) methomyl. Methomyl is a carbamate, inhibiting cholinesterase. With expert use hazards to human health are regarded nil.

Safety hazards : With expert use unlikely to occur.

Environmental hazards : Toxic to fish and other aquatic organisms, birds and other wildlife. May cause long-term adverse effects in the aquatic environment.

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4. First aid measures

- Emergencies : In general urgent medical attendance will not be necessary. In the unlikely event of ingestion get immediate medical attention.
- Symptoms and effects : Exposure to methomyl may cause acute inhibition of the cholinesterase action. Early symptoms of poisoning may include excessive sweating, headache, dizziness, nausea, vomiting, stomach pains, blurred vision, slurred speech and muscle twitching.
- Inhalation : Remove subject from exposure area to fresh air. Keep person at rest and get medical attention if discomfort persists.
- Eye contact : Flush eyes with copious quantities of water or saline solution for at least 15 minutes. Seek medical advice.
- Skin contact : Immediately remove contaminated clothing. Wash skin with copious quantities of water and soap. Seek medical advice if irritation occurs.
- Ingestion : Ingestion is unlikely, since product contains a bittering agent. In the event of ingestion get immediate medical attention. Give one or two glasses of water to drink and induce vomiting. If vomiting occurs, keep head low to prevent aspiration. In the event of collapse, artificial respiration must be given, bearing in mind that if mouth to mouth respiration, vomit may contain toxic amounts of methomyl.
- Information for physician : Methomyl is a carbamate, inhibiting cholinesterase. Methomyl is rapidly degraded and excreted, mainly in the urine. When vomiting does not occur, rapid gastric lavage should be performed, using 5% sodium bicarbonate. Atropine is a specific antidote. Contraindications are morphine and 2-PAM. The bronchial tubes should be kept free and artificial respiration should be applied, if required, preferably by mechanical means. If necessary, intubation should be performed.

5. Fire fighting measures

- Suited extinguishing media : Powder, foam, water spray, CO₂.
- Unsuited extinguishing media : None presently known.
- Exposure risks : During fire methomyl may land in the smoke.
- Special protective equipment for fire fighters : Protective clothing and gasmask.

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6. Accidental release measures

- Personal precautions : In case of dust cloud formation secure adequate ventilation. Wear eye protection.
- Environmental precautions : Product is toxic to aquatic organisms. It may cause long-term adverse effects in the aquatic environment. Do not allow entry in streams, sewers or natural environment.
- Methods for cleaning up : Spills must be swept up and put into closed, labelled containers for later disposal in compliance with local authority regulations for disposal of chemical waste. Contaminated floors and equipment should be cleaned with 5% sodium hydroxide solution and then rinsing with large quantities of water.

7. Handling and storage

- Handling precautions : Standard directives for handling chemicals must be strictly observed. Wear suitable clothing.
- Storage : Class CPR 15-3: free; store in accordance with hazard category 'separation of substances'.
- Shelf life : Two years from date of production if correctly stored.
- Classification : NC, non-flammable.

8. Exposure control - personal protection

- Statutory limit : MAC-value methomyl: TGG 8 hrs = 2.5 mg/m³ (NL).
- Ventilation : Secure adequate ventilation.
- Respiratory protection : Dust mask P2 is recommended.
- Hand protection : Suitable gloves (butyl rubber, pvc) are recommended.
- Eye protection : Wear eye protection.
- Body protection : Suitable clothing must be worn.
- Others : Do no eat, drink or smoke.

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9. Physical and chemical properties

Appearance	:	granules
Colour	:	yellow
Odour	:	mild chemical
pH	:	not applicable; solid
Melting point	:	< 50°C
Boiling point	:	not applicable; solid
Flash point	:	not applicable; solid
Auto-ignition	:	not determined
Explosion limits	:	non-explosive
Vapour pressure	:	6.5×10^{-5} mbar at 25°C (methomyl)
Density	:	0.65 kg/L
Partition coefficient	:	$K_{ow} = 1.24$ (methomyl)
Oxidizing properties	:	non-oxidizing
Solubility in water	:	soluble (500 g/L at 25°C)
Solubility in others	:	insoluble in organic solvents

10. Stability and reactivity

Stability	:	Product is stable under cool, dry conditions.
Incompatibility	:	Incompatible with strong acids, alkaline preparations and oxidizing materials. Avoid wet conditions, excessive heat, sparks, naked flames and direct sunlight.
Hazardous decomposition products	:	Not likely to occur in view of the very low concentration of active ingredient.
Hazardous polymerization	:	Will not occur.

11. Toxicological information

Toxicity	:	Product contains a low percentage (1%) methomyl, a carbamate, inhibiting cholinesterase. It may be absorbed from the gastrointestinal tract, by inhalation or through the eyes.
Acute toxicity to mammals	:	LD(preparation, oral, rat) ₅₀ = 7227 mg/kg. LD(preparation, dermal rat) ₅₀ > 2000 mg/kg. Minimal irritant to skin and slightly irritant to eyes. No sensitizing reactions observed.
Chronic toxicity	:	Non-carcinogenic, non-mutagenic, non-teratogenic.

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12. Ecological information

- Environmental toxicity : Methomyl is highly toxic to aquatic organisms, birds and bees. Methomyl may cause long term adverse effects in the aquatic environment.
LC(methomyl, 96 h, trout)₅₀ = 3.4 mg/L.
LD(methomyl, oral, mallard duck)₅₀ = 15.9 mg/kg.
LD(methomyl, contact, bees)₅₀ = 0.1 µg/bee.
- Environmental properties : Marine pollutant.
Methomyl is registered with ECB* as ‘not readily biodegradable’. (*European Chemicals Bureau).

13. Disposal consideration

- Waste from residues and contaminated packaging : In compliance with national/local authority regulations for disposal of chemical waste.

14. Transport information

- International regulations : Not classified for any mode of transportation.
Obligatory description : Not applicable.
Obligatory labelling : Land – RID/ADR : not applicable.
Inland waterways – ADNR : not applicable.
Sea – IMDG : not applicable.
Air – ICAO-II, IATA-DGR : not applicable.
- UN number : Not applicable.
UN packing group : Not applicable.
Transport emergency group card : Not applicable.

15. Regulatory information

- Regulations for labelling
- Approval number : 10747 N (The Netherlands)
- Symbol : N Dangerous for the environment.
- Hazard indication (R-phrases) : R51/53 Toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
- Safety precautions (S-phrases) : S39 Wear eye protection.
S61 Avoid release to the environment. Refer to special instructions / safety data sheet.
- Additional information : Contains methomyl.

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16. Other information

Explanation R-phrases section 2 :	R28	Very toxic if swallowed.
	R50/53	Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic environment.
Information sources :	-N-Class data base ECB for methomyl. Safety data sheets of ingredients. CTB (College for approval of insecticides, NL) The Pesticide Manual (ISBN: 1 901396 11 8).	
Alterations in relation to previous edition of 24 th May 2005 :	§ 3:	In subsection environment 'Harmful' replaced by 'Toxic'.
	§ 6:	In subsection environment 'harmful' replaced by 'toxic'.
	§ 12:	In subsection toxicity added: 'Methomyl may cause long term adverse effects in the aquatic environment'.
	§ 15:	Labelling amended in compliance with CTB resolution of 2 nd March 2007, viz.: symbol N added; R52/53 replaced by R51/53.

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within this safety data sheet since the customer's treatment of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for his intended use.