Taj Agro Products®

Refreshing World

Insecticide/ Rodenticide

Chlorophacinone is an anticoagulant used as a rodenticide.

Status: ISO 1750 (published)
IUPAC: 2-[(RS)-2-(4-chlorophenyl)-2-phenylacetyl]indan-1,3-dione
CAS: 2-[(4-chlorophenyl)phenylacetyl]-1H-indene-1,3(2H)-dione
Reg. No.: 3691-35-8
Formula: C23H15ClO3
Activity: rodenticides (indandione rodenticides)

CLASSIFICATION:

Primary use: Rodenticide
Secondary use:
Chemical group: Indandione derivative
1. GENERAL INFORMATION
1.1 COMMON NAME:
Chlorophacinone (ISO, BSI and JMAF)
1.1.1 Identity;
IUPAC: 2-(2-(4-chlorophenyl)-2-phenylacetyl)indan-1, 3-dione
CAS: 2-(2-(4-chlorophenyl)-phenylacetyl)-1H-indene-1,
3(2H)-dione
CAS Reg. No.: 3691-35-8
Molecular formula: C23H15ClO3
Molecular weight: 374.8

1.1.2 Synonyms:

AFNORR; CaidR; chlorofacinon; chlorfacinon; chlorophacinone; DeltaR; DratR; LiphadioneR; LM 91R: MicrozulR; MuriolR; QuickR; RamucideR; RanacR; RatometR; RaviacR; RozolR; TopitoxR.

1.2 SYNOPSIS:

Chlorophacinone is a chlorinated, diphenyl indane derivative; an anti-coagulant and metabolic inhibitor which is highly toxic to Chlorophacinone is an anticoagulant used as a rodenticide. rodents but of only slight toxicity to humans and other non-target organisms. It is compatible with a wide spectrum of bait carriers and has no repellent action.

1.3 SELECTED PROPERTIES

1.3.1 Physical characteristics

Chlorophacinone is a white crystalline solid. It has a melting point of 140°C, it is non-corrosive.

1.3.2 Solubility

Chlorophacinone is sparingly soluble in water, but soluble in organic solvents.

1.3.3 Stability

Chlorophacinone is described as stable and resistant to weathering effects.

1.3.4 Vapour pressure

Negligible at 20°C.

1.4 AGRICULTURE, HORTICULTURE AND FORESTRY

1.4.1 Common formulations

Chlorophacinone is available as a bait, 50-250 mg a.i./kg and in oil solution, 2.5 g a.i./L.

1.4.2 Pests controlled

Presently used against mice, moles, muskrats, rats, vampire bats, and voles - in controlled access areas and under field conditions.

1.4.3 Use pattern

Chlorophacinone is applied wherever the rodents have access to the bait. It may be replenished as it is consumed. A tracking powder is recommended in areas where rodents travel. It does not usually require more than one feeding for a kill. The oil solution may be used to impregnate or coat any desirable bait. Prevent food contamination.

1.4.4 Unintended effects

Chlorophacinone could be hazardous to other small mammals and birds if used indiscriminately. Persons with bleeding problems and children should not come in contact.

1.5 PUBLIC HEALTH USE

As in 1.4, for control of nuisance and disease vector rodent pests.

1.6 HOUSEHOLD USE

As in 1.4, for control of nuisance and disease vector rodent pests.

2. TOXICOLOGY AND RISKS

2.1 TOXICOLOGY - MAMMALS

2.1.1 Absorption route

Chlorophacinone is primarily absorbed from the gastrointestinal tract; dermal absorption may also occur.

2.1.2 Mode of action

Chlorophacinone is an anticoagulant agent; it uncouples oxidative phosphorylation depressing hepatic synthesis of prothrombin and clotting factors VII, IX and X and, it causes direct damage to capillary permeability. The ultimate effect is widespread internal haemorrhage. In rodents, indandlones also cause neurologic and cardiopulmonary injuries which often lead to death before haemorrhage occurs.

2.1.3 Excretion products

No published information available.

2.1.4 Toxicity, single dose

A single dose of a 50 mg/kg bait kills Rattus norvegicus from the fifth day.

Oral LD50:

Rat 20.5 mg/kg bw; technical material

Rabbit 50.0 mg/kg bw; technical material

Dermal LD50:

Rabbit 200.0 mg/kg bw; technical material

A solution of 5 mg in 2 ml of liquid paraffin applied to 100 cm2 of shaved skin on rabbits caused only a slight reduction of prothrombin rating.

2.1.5 Toxicity, repeated doses

Chlorophacinone is of low toxicity to birds. Administration of 15 daily doses of 2.25 mg to grey partridges produced no ill-effects.

Oral LD50:

Wild Birds 430 mg/kg bw; technical material

Ducks 100 mg/kg bw; technical material

3. FOR REGULATORY AUTHORITIES - RECOMMENDATION ON REGULATION OF COMPOUND

3.1 RECOMMENDED RESTRICTIONS ON AVAILABILITY

Product Name: CHLOROPHACINONE
Common Name: CHLOROPHACINONE
Molecular formula: C23H15ClO3
Molecular weight: 374.8
CAS Number: [3691-35-8]

Specification: 98%TECH

Packing:1kg/aluminum bag

Certification ISO9001, FAO standard
Place of Origin: India
Payment:
Delivery time: 15 days
Trademark:

Chlorophacinone is an anticoagulant used as a rodenticide.
If you have questions regarding any Taj Agro Products Limited product you Contact To Our No. 30601000
Please choose one of the given options to contact us and we will respond to your inquiry as quickly as possible *.

Contact Us

Contact information for Taj Group companies in India.

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