

**גלופריד - Galoprid**

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**1. IDENTIFICATION OF SUBSTANCE AND COMPANY**

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**Common name:** Galoprid

**Use:** Insecticide

**Formulation Type:** SC

**Manufacturer:** Tapazol Chemical works Ltd.

**Address:** HaSolela 1, West ind. Zone, Beit Shemesh, 99052.

**Tel:** 972-2-992-6040 **Fax:** 972-2-9926050 **e-mail:** [info@tapazol.co.il](mailto:info@tapazol.co.il)

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**2. COMPOSITION/INFORMATION ON INGREDIENTS**

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Name	CAS no.	Quantity (g/l)
Imidacloprid	138261-41-3	350
Inerts	-	Balance to 1 liter

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**3. HAZARDS IDENTIFICATION**

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May be harmful if swallowed, inhaled, or absorbed through skin.

Handle with care. Do not get into eyes or on skin. Do not breathe mist or vapor of product.

No evidence of carcinogenic, mutagenic, teratogenic or reproductive effects.

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#### 4. FIRST AID MEASURES

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**Eyes:** Flush eyes with large amounts of water while eyelids are open for at least 15 minutes. If irritation develops and persists, get medical attention.

**Skin:** Flush with large amounts of water. Remove grossly contaminated clothing, including shoes, and launder before reuse. If irritation develops and persists, get medical attention.

**Ingestion:** If swallowed, drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. Get medical attention immediately.

**Inhalation:** Wearing proper respiratory protection before rescues. Immediately remove the affected victim from exposure to an area of fresh air. If not breathing, give artificial respiration; if breathe difficult, give oxygen. Get medical attention.

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#### 5. FIRE-FIGHTING MEASURES

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**Flammable properties:** Negligible fire and explosion hazard. No flammable.

**Extinguishing media:** Foam, carbon dioxide, dry chemical or water spray to extinguish fire.

**Firefighting Precaution:** In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode. Keep unnecessary people away.

Dike area of fire to prevent material run-off. Decontaminate emergency personnel with soap and water before leaving the fire area. Avoid breathing dusts, vapors and fumes from burning materials. Control run-off water.

Wash hands before breaks and at the end of work. Change contaminated protective clothing.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Personal protection:** Use suitable protective equipment as prescribed in section 8 – "Exposure controls/Personal protection".

**Environmental Protection:** In case materials are released, contact emergency response personnel. Keep unnecessary persons away. If emergency response personnel are unavailable, absorb small spills on spill pillows or other suitable absorbing material (e.g. sand, soil or diatomaceous earth) and place in a sealed container for disposal. Dike large spills and transfer to an appropriate container for disposal. Avoid contact of spilled materials and runoff with soil and surface waterways Follow all fire prevention procedures - Section 5.

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## 7. HANDLING AND STORAGE

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**Storage:** Store in the original container and keep closed. Store in cool, dry and well-ventilated place. Keep out of reach of children. Keep away from food, drink and animal feeding stuffs.

**Handling:** Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mist. Clean applicator and measuring equipment before using with other products and dispose of wash water where it will not contaminate crops, grazing, rivers and dams. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove contaminated clothing and wash thoroughly after handling.

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## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

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**Engineering controls:** Provide good ventilation system.

**Eye/ Face protection:** To protect against accidental eye contact, goggles/face-shield should be worn.

**Skin:** neopren gloves should be worn. Wash thoroughly with soap and water after handling. Wash hands before breaks and at the end of work. Change contaminated protective clothing.

**Respiratory protection:** wear a half- facepiece respirator, with ABEK P3 filter.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Appearance:** Off-white viscous liquid.

**Odor:** Odorless.

**Specific Gravity:** 1.18.

**Water solubility:** Disperses in water.

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## 10. STABILITY AND REACTIVITY

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**Chemical stability:** Stable under normal handling and storage conditions.

**Conditions to avoid:** Avoid mixed with highly reactive chemicals such as strong acid, strong base or strong oxidizing agent.

**Hazardous decomposition products:** Thermal decomposition products contain oxides of carbon, oxides of nitrogen, hydrochloride.

**Hazardous polymerization:** Will not occur.

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## 11. TOXICOLOGICAL INFORMATION

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### **Acute toxicity:**

**Oral:** LD<sub>50</sub> for rats >2000 mg/kg

**Dermal:** LD<sub>50</sub> for rats >2000 mg/kg

**Inhalation:** LC<sub>50</sub> (4 h) for rats: >5323 mg/l for Active ingredient as dust.

**Skin irritation:** No irritant to rabbits.

**Eye irritation:** No irritant to rabbits.

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## 12. ECOLOGICAL INFORMATION

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Imidacloprid may be toxic to birds and aquatic organisms. Avoid release to the environment in circumstances different to normal use. Referenced technical active ingredient ecological information list as below:

**Fish:** LC<sub>50</sub> (96 h) for golden orfe 237, rainbow trout 211 mg/l.

**Birds:** Acute oral LD<sub>50</sub> for Japanese quail 31, bobwhite quail 152 mg/kg.

Dietary LC<sub>50</sub> (5 d) for bobwhite quail 2225, mallard duck >5000 mg/kg.

**Bees:** Harmful to honeybees by direct contact.

### **Environmental Fate:**

**Animals:** After oral administration of methylene-14C- and 4,5-imidazolidine-14 Clabelled Imidacloprid to rats, the radioactivity was quickly and almost completely absorbed from the gastro-intestinal tract and quickly eliminated (96% within 48 hours, mainly via the urine). Only c. 15% was eliminated as unchanged parent compound; the most important metabolic steps were hydroxylation at the Imidazolidine ring, hydrolysis to 6-chloronicotinic acid, loss of the nitro group with formation of the guanidine and conjugation of the 6-chloronicotinic acid moiety. Imidacloprid is also quickly largely eliminated from hens and goats.

**Plants:** Metabolism was investigated on rice (after soil treatment), maize (seed treatment), potatoes (granule or spray application), aubergines (granules) and tomatoes (spray treatment). In all cases, Imidacloprid is metabolized by loss of the nitro group, hydroxylation at the imidazolidine ring, hydrolysis to 6-chloronicotinic acid and formation of conjugates; all metabolites contained the 6-chloropyridinylmethylenemoiety.

**Soil/Environment:**

In laboratory studies, the most important metabolic steps were oxidation at the imidazolidine ring, reduction or loss of the nitro group, hydrolysis to 6-chloronicotinic acid and mineralisation; these processes were strongly accelerated by vegetation. Imidacloprid shows a medium adsorption of soil. Column leaching tests (with prior ageing) with a.i. and various formulations showed that Imidacloprid and soil metabolites are to be classified as immobile; leaching into deeper soil layers is not to be expected if imidacloprid is used as recommended. Stable to hydrolysis under sterile conditions (under exclusion of light). Environmental  $DT_{50}$  c. 4 h (calc., based on tests of direct photolysis in aqueous solutions). Besides sunlight, the microbial activity of a water/sediment system is an important factor for the degradation of Imidacloprid.

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### 13. DISPOSAL CONSIDERATIONS

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disposed of according to the local waste regulation authority. Do not flush to surface water or sanitary sewer system.

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### 14. TRANSPORT INFORMATION

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**IMO Classification:** Not regulated.

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## 15. REGULATORY INFORMATION

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### European/International Regulation:

Hazard Symbols:

Xn Harmful

### R phrases:

R 22 Harmful if swallowed.

### S phrases:

S 1/2 Keep locked-up and out of reach of children

S 13 Keep away from food, drink and animal feeding stuffs

S 20 When using do not eat or drink.

S 24/25 Avoid contact with skin and eyes.

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## 16. OTHER INFORMATION

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**Disclaimer:** The information provided by TAPAZOL CHEMICAL WORKS Ltd.

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