



# LIQUA-TOX II FC RODENTICIDE

## SAFETY DATA SHEET

ACCORDING TO REGULATION:  
GHS/WHMIS 2015

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PREPARED BY:  
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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier:** LIQUA-TOX II FC RODENTICIDE  
**PMRA Registration Number:** 31122  
**Relevant identified uses:** Anticoagulant Rodenticide  
**Uses advised against:** Use only for the purpose described above

**MANUFACTURER/SUPPLIER:**

Bell Laboratories, Inc.  
3699 Kinsman Blvd.  
Madison, WI 53704, USA  
Email: sds@belllabs.com  
Phone: 608-241-0202  
Medical or Vet Emergency: 877-854-2494 or 952-852-4636  
Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

### SECTION 2. HAZARDS IDENTIFICATION

**WHMIS Classification:** Not classified  
**Signal Word PMRA:** Warning/Poison  
**Signal Word/Pictogram:**

**Precautionary Statements:** KEEP OUT OF REACH OF CHILDREN, PETS AND LIVESTOCK. May be harmful or fatal if swallowed or absorbed through the skin. Wear a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes when handling product and when disposing of dead rodents, unconsumed bait and empty containers. Avoid contact with eyes, skin or clothing. Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Wash skin thoroughly with soap and water after handling. Wash contaminated clothing, separately from other laundry, with soap and water before reuse. KEEP AWAY FROM FEED AND FOODSTUFFS.



Only to be used by certified pest control operators, farmers and persons authorized in government-approved pest control programs.

See Section 15 for information on PMRA applicable safety, health, and environmental classifications.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Sodium Diphacinone [2-(Diphenylacetyl)-1H-indene-1,3(2H)-dione, Sodium salt]	42721-99-3	0.106%
Inert and Non-Hazardous Ingredients (Unlisted components are non-hazardous)	Proprietary	99.894%

### SECTION 4. FIRST AID MEASURES

**Description of first aid measures**

**Ingestion:** Call physician or emergency number immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by physician.

**Inhalation:** Not applicable.

**Eye contact:** Hold eye open and rinse slowly with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops, obtain medical assistance.

**Skin contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. If irritation develops, obtain medical assistance.

**Most important symptoms and effects, both acute and delayed**

Ingestion of excessive quantities may cause nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, bleeding.

**Advice to physician:** If ingested, administer Vitamin K<sub>1</sub> intramuscularly or orally as indicated for bishydroxycoumarin overdoses. Repeat as necessary as based upon monitoring of prothrombin times.

**Advice to Veterinarian:** For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K<sub>1</sub>. If needed, check prothrombin times every 3 days until values return to normal (up to 30 days). In severe cases, blood transfusions may be needed.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

**Special hazards arising from the mixture:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide.

**Advice for firefighters:** Wear protective clothing and self-contained breathing apparatus.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** All handlers (including mixers and applicators) must wear coveralls over short sleeved shirt and short pants, chemical resistant footwear, socks, and water-proof gloves.

**Environmental precautions:** Do not allow bait to enter drains or water courses. Use indoors only.

### Methods and materials for containment and cleaning up

**For Containment:** Soak up spilled material on an inert absorbent. Place in properly labeled container for disposal or re-use.

**For Cleaning Up:** Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.

**Reference to other sections:** Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

## SECTION 7. HANDLING AND STORAGE

**Precautions for safe handling:** For indoor use only. Do not use in areas accessible to children, pets, and non-target wildlife. Liquid bait MUST be placed in tamper-resistant bait stations. Do not use in homes or other residential settings. Product may be used in farm buildings, food service establishments (non-food areas), granary bins (empty), processing plants (feed, food, in non-food areas), storage areas (non-food), warehouses, and port or terminal buildings. DO NOT place bait in areas where there is a possibility of contaminating food or surfaces that come in direct contact with food. All handlers must wear long-sleeved shirt and long pants, shoes plus socks, and chemical resistant gloves when handling this product. Do not use near heat sources, open flame, or hot surfaces. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet.

**Conditions for safe storage, including any incompatibilities:** Store in cool, dry place away from other chemicals and food or feed. Store product not in use, in original container, in a secure location inaccessible to children and non-target animals.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Established Limits

Component	OSHA	ACGIH	Other Limits
Diphacinone	Not Established	Not Established	Not Established

**Appropriate Engineering Controls:** Not required

**Occupational exposure limits:** Not established

### Personal Protective Equipment:

**Respiratory protection:** Not required

**Eye protection:** Not required

**Skin protection:** All handlers (including mixers and applicators) must wear coveralls over short sleeved shirt and short pants, chemical resistant footwear, socks, and water-proof gloves.

**Hygiene recommendations:** Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance/Color:</b>	Pale yellow liquid
<b>Odor:</b>	None
<b>Odor Threshold:</b>	No Data.
<b>pH:</b>	No Data.
<b>Melting point:</b>	No Data.
<b>Boiling point:</b>	100° C
<b>Flash point:</b>	No Data.

<b>Evaporation rate:</b>	No Data.
<b>Flammability:</b>	No Data.
<b>Upper/lower flammability or explosive limits:</b>	No Data.
<b>Vapor Pressure:</b>	No Data.
<b>Vapor Density:</b>	No Data.
<b>Relative Density:</b>	1.003 g/mL @ 20°C
<b>Solubility (water):</b>	Soluble
<b>Solubility (solvents):</b>	No Data.
<b>Partition coefficient: n-octanol/water:</b>	No Data.
<b>Auto-ignition temperature:</b>	No Data.
<b>Decomposition temperature:</b>	No Data.
<b>Viscosity:</b>	No Data.

## SECTION 10. STABILITY AND REACTIVITY

**Reactivity:** Stable when stored in original container in a cool, dry location.

**Chemical stability:** Stable when stored in original container in a cool, dry location.

**Possibility of hazardous reactions:** Refer to Hazardous decomposition products

**Conditions to avoid:** Avoid extreme temperatures (below 0°C or above 40°C).

**Incompatible materials:** Avoid strongly alkaline materials.

**Hazardous decomposition products:** High temperature decomposition or burning in air can result in the formation of toxic gases, which may include carbon monoxide.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Information on toxicological effects

#### Acute Toxicity

**LD50, oral (ingestion):** >5000 mg/kg (rats) (Diphacinone Rat LD50 oral: 2.3 mg/kg bw).

**LD50, dermal (skin contact):** > 2000 mg/kg (rats) (Diphacinone rabbit LD50 dermal: 3.6 mg/kg bw).

**LC50, inhalation:** Product is a liquid and therefore exposure by inhalation is not relevant.

**Skin corrosion/irritation:** Not irritating to skin.

**Serious eye damage/Irritation:** Not irritating to eyes.

**Respiratory or skin sensitization:** Dermal sensitization: Not a Sensitizer (Guinea pig maximization test).

**Germ cell mutagenicity:** Contains no components known to have a mutagenetic effect.

**Carcinogenicity:** Contains no components known to have a carcinogenetic effect.

Components	NTP	IARC	OSHA
Diphacinone	Not listed	Not listed	Not listed

**Reproductive Toxicity:** No data

**Aspiration Hazard:** Not applicable. Product is a liquid.

**Target Organ Effects:** Reduced blood clotting ability.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity Effects:** This product is toxic to fish and wildlife. Keep out of lakes, streams or ponds.

**Persistence and degradability:** Product is inherently biodegradable.

**Bioaccumulative potential:** Not determined. Diphacinone water solubility is extremely low (< 0.1mg/l).

**Mobility in Soil:** Not determined. Mobility of diphacinone in soil is considered to be limited.

**Other adverse effects:** None.

## SECTION 13. DISPOSAL CONSIDERATIONS

Do not reuse empty container. Dispose of unused or spoiled bait in accordance with local requirements. Follow provincial instructions for any required cleaning of the container prior to its disposal. Make the empty container unsuitable for further use. Dispose of the container in accordance with provincial requirements. For more information on the disposal of unused, unwanted product and cleanup of spills, contact the provincial regulatory agency or the Manufacturer. Dispose of dead rodents in garbage or by burying.

## SECTION 14. TRANSPORT INFORMATION

**UN number:** Not regulated  
**UN proper shipping name:** Not regulated  
**Transport hazard class(es):** Not regulated  
**Packing group :** Not regulated  
**Environmental Hazards**  
**DOT Road/Rail:** Not considered hazardous for transportation via road/rail.  
**DOT Maritime:** Not considered hazardous for transportation by vessel.  
**DOT Air:** Not considered hazardous for transportation by air.  
**Canadian Classification:** Not considered hazardous  
**Freight Classification:** LTL Class 60  
**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code:** Not applicable  
**Special precautions for user:** None

## SECTION 15. REGULATORY INFORMATION

**Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**Health Canada PMRA:** This pesticide product is regulated by the Pesticide Management Regulatory Agency of Health Canada and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental, and hazard information required on the pesticide label is listed below and reflected throughout this SDS. The pesticide label also includes other important information, including directions for use.

**Signal Word:** WARNING/POISON

**Precautionary Statements:** Contains the anticoagulant Diphacinone which may cause bleeding if ingested. May be fatal if absorbed through the skin. Harmful if swallowed. Avoid breathing vapors. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing. Avoid exposure to this product during pregnancy.



**Potential Health Effects:**

**Eye Contact:** May cause irritation

**Skin Contact:** Non-irritating to the skin

**Inhalation:** Not applicable

**Ingestion:** Harmful if swallowed

**TSCA:** All components are listed on the TSCA Inventory or are not subject to TSCA requirements

**CERCLA/SARA 313:** Not listed

**CERCLA/SARA 302:** Not listed

## SECTION 16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

<b>NFPA</b>	Health: 1 (caution)	Flammability: 0 (will not burn)	Reactivity: 0 (stable)	Specific Hazard: None
<b>HMIS</b>	Health: 2 (moderate)	Flammability: 0 (minimal)	Reactivity: 0 (minimal)	Protective Equipment: B

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