



MATERIAL SAFETY DATA SHEET

MASTER FLY VETERINARY

ISSUE 01

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MARCH 2016

1 PRODUCT AND COMPANY IDENTIFICATION:

PRODUCT NAME: MASTER FLY VETERINARY
CHEMICAL FAMILY: FURANICOTINYL INSECTICIDE
PRODUCT DESCRIPTION: INSECTICIDE FOR FLIES
MANUFACTURER: RPC PEST CONTROL COMPANY LTD.
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2 COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENTS CONTRIBUTING TO THE HAZARD:

DINOTEFURAN	12.00%
CAS NUMBER 165252-70-0	
SYMBOLS:	Xn, N
R-PHRASES	R22, R53, R56, R57

Full text of R-Phrases and S-Phrases of the product: see section 15

3 HAZARDS IDENTIFICATION

Caution! Harmful if swallowed and by inhalation. Toxic to bees. May cause long-term adverse effects in the aquatic environment

Physical State: liquid

Routes of exposure: Ingestion, skin contact, eye contact.

Immediate effects: No significant signs of systematic toxicity were observed in animals exposed to very high oral, dermal or inhalation dosages of the product.

Eye Contact: This product can cause brief and/or minor eye irritation. The expected adverse health effects resulting from an exposure may include redness and possible swelling.

Skin: This product can cause brief and/or minor irritation. The expected adverse effects resulting from an exposure may include redness and possibly some minor swelling. This product is slightly toxic when absorbed through skin. This product is not expected to cause allergic reactions.

Ingestion: May be harmful if swallowed. Do not take internally.

Inhalation: This product is minimally toxic when inhaled.



3 HAZARDS IDENTIFICATION

Chronic Toxicity (including cancer): No specific target organ(s) could be identified in chronic studies conducted with Dinotefuran in rats, mice and dogs, nor did it produce tumors in rats or mice.

4 FIRST AID MEASURES

General: When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.

Eye: Hold eye open and rinse slowly and gently with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 15 minutes, and then continue rinsing eyes. Get medical attention if irritation develops and persists.

Skin: Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

Inhalation: If inhaled, move the person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth to mouth if possible. Call a physician.

Ingestion: If swallowed immediately contact a doctor or Poisons Center and follow the advice given. Keep under medical supervision. Have the person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person

Notes to physician: There is no specific antidote if this product is ingested.

5 FIRE – FIGHTING MEASURES

Extinguishing media: Carbon dioxide, dry agent, water spray, foam.

Hazard for combustion products: In the event of fire, carbon monoxide, carbon dioxide, nitrogen oxides, sulphur oxides, hydrogen chloride and hydrogen fluoride may be released.

Precautions for fire fighters: Fire fighters should wear full protective gear including self-contained breathing apparatus. Keep unnecessary people away and move other personnel to windward side of fire. Bund area with sand or earth to prevent contamination of drains or waterways. Dispose of fire control water or other extinguishing agent and spillage safely later.

6 ACCIDENTAL RELEASE MEASURES

Personal precaution, protective equipment and emergency procedures: No special requirements. Use personal protective equipment. Avoid direct contact with releasing product.

Environmental precautions: Do not allow to enter drains, groundwater, soil and open water courses.

Methods and material for containment and cleaning up: Protect damage packaging. Collect spilled product into suitable containers, which can be labeled and sealed. Utilize collected material in accordance with regulations. Wash contaminated surface with plenty of water.



7 HANDLING AND STORAGE

Precautions for safe handling: No special measures necessary if stored and handled correctly. Read label before use.

Observe good personal hygiene and wear protective clothing in accordance with information on label or set out in section 8.

Special measures for protection against fire and explosion: No special precautions necessary. The product is non-combustible. Product is not explosive.

Industrial hygiene:

- Ensure good ventilation (overall and local exhausted ventilation)
- Ensure place for eyes and skin rinsing
- Wash hands with soap and water before eating, smoking and after work
- Use general caution while working with chemical substances

Conditions for

safe storage, including any incompatibilities:

Keep only in the original container

Protect from temperatures above 40° C

Keep the product away from children, food, beverage and animal feed. Keep away from odorous materials

The product retains its physical and chemical properties for at least 3 years if stored in original, unopened containers, at moderate temperatures

Specific and use(s): biocide product

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limit value: There is not exposure standard to dangerous components of this product.

Exposure controls

Technical exposure controls: adequate ventilation.

Personal protection:

- a) **Respiratory protection-** is not required.
- b) **Hand protection-** wear protective gloves.
- c) **Eye protection-** no special requirements.
- d) **Skin protection-** no special requirements.

Professional pest control product: Avoid contact with the skin, eyes and clothing. Wash hands after use.

Take off immediately all contaminated clothing. Store working cloth separately. Keep away from food, drink and animal feeding stuffs. Hands and/or face should be washed before breaks and at the end of the shift.

Environmental exposure controls: Do not allow to enter large amounts of product into ground water, sewage, waste water or soil.



9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid
pH:	6.0 – 7.0 (Determined at 1% solution).
Flash point:	Not flammable.
Solubility:	Soluble in water
Density:	0.95 – 1,03 g/cm ³

10 STABILITY AND REACTIVITY

Reactivity: Under the properly conditions of storage and handing – no reactivity
Chemical stability: Stable under normal conditions (see Section 7 – storage conditions)
Possibility of hazardous reactions: No
Conditions to avoid: High temperature, high humidity
Incompatible materials: Odorants perfumes, etc.
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated

11 TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Acute toxicity:

Acute Oral Toxicity LD50 (rat): > 10,5000 mg/kg
Acute Dermal Toxicity LD50 (rat): > 10,000 mg/kg
Acute Inhalation Toxicity LD50 (rat): > 34.00 mg/L air ---4 hours

Skin corrosion/irritation: this product produced brief and/or minor skin irritation.

Serious eye damage/irritation: this product produced brief and/or minor eye irritation.

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of mutagenic substances.

Carcinogenicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of carcinogenic substances.

Reproductive toxicity: No data available. Hazardous ingredients of the product aren't mentioned on the list of reproductive toxicity substances.

Aspiration hazard: No data available.

Other information: Product poses no danger to humans associated with the normal use and work with the product.

Toxicological data for hazardous ingredient-Dinotefuran:

Acute toxicity:

Acute Oral Toxicity LD50 (rat): 2000 – 2804 mg/kg
Acute Dermal Toxicity LD50 (rat): > 2000 mg/kg

Routes of exposure: Inhalation, ingestion, skin and eye contact

Potential health effects:

Inhalation- harmful if inhaled, may cause respiratory tract irritation.



11 TOXICOLOGICAL INFORMATION

Ingestion- toxic if swallowed

Skin- cause skin irritation, toxic if absorbed through skin. Easy absorbed through skin

Eye- cause eyes irritation

12 ECOLOGICAL INFORMATION

Toxicity: (Dinotefuran)

Toxicity to fish LC50 - *Lepomis macrochirus* (Bluegill) - > 1.000 mg/l - 96 h

LC50 - other fish - 4,84 mg/l - 48 h

Toxicity to daphnia and EC50 - *Daphnia* - > 1.000 mg/l - 48 h

other aquatic

invertebrates LC50 - *Crangon crangon* (shrimp) - 0,79 mg/l - 96 h

Toxicity to algae EbC50 - *Pseudokirchneriella subcapitata* (green algae) - > 100 mg/l - 72 h

Persistence and degradability:

Biodegradability aerobic - Exposure time 138,4 d

Remarks: According to the results of tests of biodegradability this product is not readily biodegradable

Bioaccumulative potential: No data

Mobility in soil: No data

Results of PBT and vPvB assessment: No data

Other adverse effects:

Product is classified as harmful to the aquatic environment and bees

13 DISPOSAL CONSIDERATION

General Disposal: Follow container label instructions for disposal wastes generated during use in compliance with the product label. Never place unused product down any indoor or outdoor drain.

Container Disposal: Wrap and discard in trash.

14 TRANSPORT INFORMATION:

ADR: Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR.

Further information: Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR.



15 REGULATORY INFORMATION, CLASSIFICATION AND LABELING ACCORDING TO EEC DIRECTIVE

R- PHRASES:

R 20/21/22 - Harmful by inhalation, in contact with skin and if swallowed.

R36: Irritating to eyes.

R43: May cause Sensitization by skin contact.

R 51/53 - Toxic to aquatic organisms, may cause long-term adverse effects
in the aquatic environment.

R57: Toxic to bees

S- PHRASES:

S2: KEEP OUT OF REACH OF CHILDREN

S24/25: AVOID CONTACT WITH SKIN AND EYES.

S26: IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH A PLENTY OF WATER
AND SEEK MEDICAL ADVICE.

S27: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING.

S28: AFTER CONTACT WITH SKIN WASH IMMEDIATELY WITH PLENTY OF SOAP AND WATER.

S29: DO NOT EMPTY INTO DRAINS.

S45: IN CASE OF ACCIDENT OF IF YOU FEEL UNWELL SEEK MEDICAL ADVICE IMMEDIATELY
(SHOW THE LABEL WHERE POSSIBLE)

S62: IF SWALLOWED DO NOT INDUCE VOMITING: SEEK MEDICAL ADVICE IMMEDIATELY
AND SHOW THIS CONTAINER OR LABEL.

CONTAIN SUBSTANCES, WHICH ARE DANGEROUS FOR THE AQUATIC ENVIRONMENT. LOCAL
REGULATIONS, IF ANY, SHOULD BE APPLIED TO CLASSIFICATION AND LABELLING.

16 OTHER INFORMATION

**THE VETERINARY INSTITUTE, DETERMINED THAT THE USAGE OF THIS PRODUCT/
SUBSTANCE IN CONTRADICTION TO THE ENCLOSED INSTRUCTION MAY
ENDANGER THE ENVIRONMENT AND PUBLIC HEALTH AND IS AGAINST THE LAW.**

This MSDS summarizes our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. The information contained in this sheet is based on the knowledge of the product at the date of publication and is given in good faith.

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SIGNED: TRIGUBOFF BERNARDO

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