



## MATERIAL SAFETY DATA SHEET

### Ronil 25 EC

#### IDENTIFICATION OF THE SUPPLIER:

**AGRO CHEMICALS INDUSTRIES LTD**  
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#### PRODUCT IDENTIFICATION:

**Common Name:** Fipronil 2.5% w/v  
**Trade Name:** Ronil 25 EC  
**Type of formulation:** Emulsifiable Concentrate (EC)  
**Chemical Name:** 5-amino-[2,6-dichloro-4-(trifluoromethyl)phenyl]-4-  
[(1R,S)-(trifluoromethyl)sulfinyl]-1H-pyrazole-3-carbonitrile  
**Chemical Formula:** C<sub>12</sub>H<sub>4</sub>Cl<sub>2</sub>F<sub>6</sub>N<sub>4</sub>OS  
**Molecular Weight:** 437.2

#### PRODUCT COMPOSITION:

<i>Active Ingredient:</i>	<i>% w/v</i>	<i>CAS #</i>
Fipronil	2.5 %	[120068-37-3]
<i>Inert ingredient:</i>		
Emulsifier	7 %	--
Solvent	Up to 100%	--

#### HAZARDS IDENTIFICATION:

**Emergency overview:** Caution! Hazard to human and domestic animals. Harmful if absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.



**Imediat effects:**

**Eye:** Causes moderate eye irritation. Avoid contact with eyes or clothing .wash thoroughly with soap and water after handling

**Ingestion:** Harmful if swallowed. Wash thoroughly with soap and water after handling. May produce symptoms similar to those from ingestion

**Inhalation:** Harmful if inhaled. Avoid breathing spray mist. May produce symptoms similar to those from ingestion .Remove contaminated clothing and wash clothing before reuse. May cause shortness of breath, excitement, involuntary shaking convulsions, irritability

**Medical condition**

**Aggravated by exposure:** Inhalation of product may aggravated existing chronic respiratory problems such as asthma, emphysema or bronchitis. Skin contact may aggravated existing skin disease

**Sighns and Symptoms:** In sever cases of overexposure by oral ingestion. Lethargy, muscle tremors, and in extreme cases, possibly convulsions, may occur

**FIRST-AID MEASURES:**

**Inhalation:** Remove victim from immediate source of exposure and assure that the victim is breathing. If breathing is difficult, administer oxygen, If victim is not breathing, admininster CPR (cardio-pulmonary restruction). Seek medical attention

**Skin contact:** Take off contaminated clothing .Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice

**Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove lenses, if present, after the first 5 minutes, then continue rinsing eye.

**Ingestion:** Call doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by doctor. Do not give anything by mouth to an unconscious person.

**FIRE-FIGHTING MEASURES: -**

**Suitable Extinguishing media:**

Recommended (small fires): dry chemical, carbon dioxide

Recommended (large fite): foam, water spray





**Fire fighting Instruction:** Firefighters should wear full protective clothing. Keep unnecessary people away, isolate hazard area and deny entry. Evacuate residents who are downwind of fire persons who may have been exposed to contaminated smoke should be immediately examined by a physician and checked for symptoms of poisoning. The symptoms should not be mistaken for heat exhaustion or smoke inhalation

### ACCIDENTAL RELEASE:

**General and Disposal:** Evacuation procedures and Safety: wear appropriate protective gear for the situation

**CleanUp & Disposal of Spill:** Recover the product by pumping, suction Or absorption using dry and inert absorbent clay, Absorb the leakage using dry sand or earth. Shovel up and place into labeled tightly closed container.

**.Land Spill or Leaks:** Containment Of spill:

Stop leak if it can be done with out risk. Follow procedures described under cleanup and disposal of spill.

### HANDLING AND STORAGE:

**Handling Procedure:** Do not breathe vapors or spray mist  
, Do not get on skin, in eyes or clothing  
Do not ingest

**Storing Procedure:** Do not contaminate water, food, or feed by storage or disposal. Store unused product in original container only, out of reach of children and animals.

Keep out of direct sunlight, Store in area that is cool, away from ignition sources, away from food, feedstuffs.fertilizers, seed and water sources.

### PERSONAL PROTECTION/SAFTETY:

**Engineering controls:** Where engineering controls are indicated by use conditions or potential for excessive exposure exists, the traditional exposure control techniques may be used to effectively minimize employee exposure: local exhaust ventilation at point of generation





**Eye/Face protection:** Eye and face protection requirements will vary dependent upon work environment conditions and material handling particular use intended for this materials

It is generally regarded as good practice to wear a minimum of safety glasses with side shields when working in industrial environments

**Body Protection:** Skin contact should be minimized through use of gloves and suitable long-sleeved clothing. Consideration must be given both to durability as well as permeation resistance

**Respiratory Protection:** When respirators are required select NIOSH/MSHA approved equipment based on actual or potential airborne concentration. use a full-face positive pressure air-supplied respirator equipped with an emergency escape air supply unit or use a self-contained breathing apparatus unit

**General protection:** These recommendations provide general guidance for handling this product because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. While developing safe handling procedures, do not overlook the need to clean equipment and piping systems for maintenance and repairs

## PHYSICAL AND CHEMICAL PROPERTIES:

**Appearance:** Pale yellow  
**Physical state:** Liquid  
**Odour:** no characteristic odor.  
**PH:** 6  
**Emulsion Stability:** Stable  
**Density:** 0.92 g/ml





## STABILITY AND REACTIVITY:

**Chemical stability:** Stable under normal and storage conditions, No dangerous reaction known under normal condition of use

**Conditions to avoid:** direct sunlight, open flame.

## TOXICOLOGICAL INFORMATION:

### Toxicological information (Formulated product);

**Oral toxicity** LD<sub>50</sub>rat : > 5000mg/kg

**Dermal toxicity** LD<sub>50</sub> rat: >2000 mg/kg

**Inhalation toxicity** LC<sub>50</sub> rat: 5.06mg/L (4h)

**Skin irritation** Rabbit: none irritating

**Eye Irritation:** Rabbit: non irritating

**Sensitization skin:** Guinea pig- Not skin sensitiser

**Carcinogenicity:** Fipronil is not carcinogenic when administered at doses of 30 ppm or greater to CD-1 mice

**Mutagenicity:** Not mutagenic

## ECOLOGICAL INFORMATION:

**Environmental Precaution:** This pesticide is toxic to birds, fish and aquatic invertebrates, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care must be taken to avoid runoff. Do not contaminate water by cleaning equipment or disposal of wastes. Do not contaminate water when disposing of equipment wash water.





**Ecological Information (Fipronil):**

**Birds Toxicity:**

Mallard duck: LD50 > 2000mg/kg

Bobwhite quail: LD50 11.3 mg/kg

**Fish Toxicity:**

Bluegill sunfish: LC50 85 mg/l

Rainbow Trout: LC50 248 mg/l

Carp: LC50 280 mg/l

**Bee toxicity:** Toxic to bee.

**DISPOSAL CONSIDERATIONS:**

**Container Disposal:** Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state and federal health and environmental regulations.

Residues in containers should be emptied in adulated from into a deep pit taking care to avoid contamination of grand waters, rinsing 2 Or 3 times with and detergent scrubbing the sides may decontaminate the empty container.

