

## MATERIAL SAFETY DATA SHEET

### 1. Product and Company Identification

**Product Name** : Chlorantraniliprole 98% TC  
**Chemical Name** : 3-Bromo-N-[4-chloro-2-methyl-6-[(methylamino)carbonyl]phenyl]-1-(3-chloro-2-pyridinyl)-1Hpyrazole-5-carboxamide  
**Type** : Insecticide  
**Molecular formula** : C<sub>18</sub>H<sub>14</sub>BrCl<sub>2</sub>N<sub>5</sub>O<sub>2</sub>  
**Manufacturer** : Agrow Allied Ventures Pvt. Ltd.

### 2. Composition / Information on ingredients

Chemical Name	CAS#	Percent or content
Chlorantraniliprole a.i.	500008-45-7	98.0 %
Other ingredients	-	Q.S.

### 3. Health Hazards Identification

**Emergency Overview:** When used as directed, this product does not present a hazard to humans or domestic animals.

**Potential Health Effects:** May cause transient eye irritation with tearing, pain or blurred vision.

### 4. First Aid Measures

**Ingestion** Call a physician. Induce vomiting immediately. Do not give anything by mouth to an unconscious person.

**Skin** Wash off skin immediately with plenty of soap and water. Take off all contaminated clothing and shoes immediately. Call a physician.

**Inhalation** Move the victim to fresh air if symptoms of cholinesterase inhibition appears. Call a physician.

**Eye irritation** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

### 5. Fire Fighting Measures

Flash Point: 272°C

Extinguishing Media: Water spray, foam, dry chemical, CO<sub>2</sub>.

Fire Fighting Instructions

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

### 6. Accidental Release Measures

#### Safeguards (Personnel)

Note: review fire fighting measures and handling (personnel) sections before proceeding with clean-up.

Use appropriate personal protective equipment during clean-up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

#### Initial Containment

Prevent material from entering sewers, waterways, or low areas. Follow applicable Federal, State/Provincial and Local laws/regulations.

#### Spill Clean Up

Soak up with sawdust, sand, oil dry or other absorbent material. Dispose of in an approved container. Do not allow to contaminate ground or surface water systems. If liquid has been spilt in large quantities clean up promptly by scoop or vacuum.

### 7. Handling and Storage

**Safe handling** Wear personal protective equipment. Handle as an organic dust. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Use only in a well ventilated areas, or chemical fume hood. Wash thoroughly after handling. Keep out of reach of children.

**Storage** Keep containers tightly closed. Store in a cool dry place. Protect from direct contact with water or excessive moisture, acids or bases. Store in original containers.

## 8. Exposure Controls/Personal Protection

<b>Engineering Controls</b>	Use general and/or local exhaust ventilation to control dusts.
<b>Respiratory Protection</b>	Appropriate respirator for dust
<b>Eye/Face</b>	Use safety glasses. If there is a potential to exposure for dust, wear safety goggles.
<b>Clothing</b>	Working clothes with long sleeves and long pants.
<b>Footwear</b>	Working shoes with socks

## 9. Physical and Chemical Properties

<b>Appearance</b>	White Solid
<b>Density</b>	1.094 g/ml
<b>Flash Point</b>	Non flammable
<b>Melting Point</b>	192-215°C
<b>Solubility in water</b>	Soluble

## 10. Stability and Reactivity

<b>Stability</b>	Stable under normal temperature.
<b>Hazardous Polymerization</b>	Not known to occur.
<b>Conditions to avoid</b>	None
<b>Hazardous decomposition</b>	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO <sub>x</sub> ), Hydrogen chloride gas, Hydrogen bromide gas

## 11. Toxicological Information

<b>Acute Oral Toxicity</b>	LD <sub>50</sub> (rats) >2000 mg/kg
<b>Acute Dermal Toxicity</b>	LD <sub>50</sub> (Rats) >2000 mg/kg
<b>Acute Inhalation</b>	LC <sub>50</sub> (rats): 2.14 mg/L air
<b>Eye/Skin Irritation</b>	Rabbit: Non irritant to skin, and eyes
<b>Skin sensitization</b>	Guinea pig: Non sensitizing

## 12. Ecological Information

Chicken	LD <sub>50</sub> , >2000 mg/kg
Pigeon	LD <sub>50</sub> , >2000 mg/kg
Fish	LC <sub>50</sub> 7.45 mg/L (96 hrs)
Bees	99.96 µg/bee
Earthworm	LC <sub>50</sub> 999.88 mg/kg bw

## 13. Disposal Considerations Disposal

1. Mix the material with saw dust or combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
2. Do not discharge into waterway or sewer systems.
3. Contaminated empty containers must be disposed of as chemical waste.
4. Obey all local regulations and refer labels concerning environment, health and safety protection.

## 14. Transport Information

Proper Shipping Name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorantraniliprole)
UN No.	:	3077
Toxicity Class	:	9
Packing Group	:	III
Marine Pollutant	:	YES
EMS	:	F-A, S-A

## 15. Regulatory Information

Special Risks (R-Phrases)	R22	Harmful if swallowed
	R 51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Safety Advice (S- Phrases)	S2	Keep out of the reach of children
	S13	Keep away from food, drink and animal feeding stuffs
	S20/21	When using do not eat, drink or smoke
	S36/37	Wear suitable protective clothing and gloves
	S60	This material and its container must be disposed of as hazardous waste.
	S61	Avoid release to the environment. Refer to special instructions/safety data sheet
International WHO Toxicity Classification	II	Moderately hazardous

#### **16. Other Information**

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall we be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if we have been advised of the possibility of such damages.

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