

## MATERIAL SAFETY DATA SHEET

### AGRIANCE

P.O. Box 8213,  
Netanya, 42293, Israel.

In case of emergency, Call  
972-9-865-6454

### 1. PRODUCT IDENTIFICATION

Product Name : **ACETAFAL**  
Active Ingredient (%) : (E)-N1-[(6-chloro-3-pyridyl)methyl]-N2-cyano- N<sup>1</sup>-methyl acetamidine.  
Chemical Name : Neonicotinoid.  
Chemical Class : Insecticide  
Molecular Formula: C<sub>10</sub>H<sub>11</sub>ClN<sub>4</sub>  
Formulation Type: SL

### 2. COMPOSITION / INFORMATION ON INGREDIENTS

Components	CAS No.	Percentage	R Phrases
Acetamiprid	135410-20-7	20%	
DMSO	67-68-5	20-40%	

### 3. HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW** Slight yellow to brown liquid.  
Stable in normal condition.  
May be harmful if swallowed.

**POTENTIAL HEALTH EFFECTS** **Skin** :- Prolonged exposure may cause skin irritation . A single prolonged exposure is not likely to result in the materials being absorbed through the skin in harmful amounts.  
**Ingestion**:- Single dose oral toxicity is moderate.

### 4. FIRST AID MEASURES

**First Aid:**

**Ingestion :** Call a physician. Induce vomiting immediately. Do not give anything by mouth to an unconscious person. Give plenty of water to drink.

**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.

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

**Advices to Medical Treatment:** Not known

## 5. FIRE FIGHTING MEASURES

- 5.1 **Flammable Properties:** Not Flammable. DMSO flashpoint is 89<sup>o</sup>C.
- 5.2 **Fire fighting instructions:** Move containers away from fire area if it can be done without risk. If impossible to remove containers from fire zone, cool them with water spray.
- 5.3 **Special Protective Equipment for Fire-Fighters:** Wear full protective clothing and self-contained breathing apparatus.
- 5.4 **Unusual Fire & Explosion Hazards:** Thermal decomposition or combustion may produce harmful and irritant gas/fume such as CO, NO<sub>x</sub>, hydrogen chloride and organic compounds.
- 5.5 **Extinguishing Media:** Water spray, foam, dry chemicals, carbon dioxide.

## 6. ACCIDENTAL RELEASE MEASURES

- 6.1 **Personal Precautions:** Wear personal protective equipment. Refer to Section 8 for personal protective equipment. Avoid raising dust.
- 6.2 **Environmental Precautions:** Prevent from releasing it to the environment
- 6.3 **Methods for Cleaning Up:** Obey all Federal, State or local regulations for health & safety and environmental protection when the accidental release is treated. Sweep up, place in a bag and hold for waste disposal. Wash spill site with soap and plenty of water after material pick-up is complete. Do not discharge to river, sea, lake, waterway or sewer systems directly.

## 7. HANDLING AND STORAGE

- 7.1 **Handling:** Keep container tightly closed; flush container clean before discarding. Do not reuse container. Do not allow this product to drift to non-target areas. Wash hands and body after handling and before eating, drinking or smoking.
- 7.2 **Storage:** Store in the closed, original container in a cool, secured, well-ventilated area.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### Occupational Exposure Controls:

- Respiratory protection:** Appropriate respirator for dust
- Gloves:** Outside: Polyvinyl chloride, polyethylene or rubber. Inside: Cotton, rayon.
- Eye /Face:** Use safety glasses. If there is a potential to exposure for dust, wear safety goggles.
- Clothing:** Working clothes with long sleeves and long pants.
- Footwear:** Working shoes with socks.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance :** Slight yellow to brown liquid.
- Odor:** Slight odor of ammonia.
- Vapor pressure:** Negligible.
- Bulk Density:** About 1.15 g/ml.
- Inhalation:** LC50 for rat > 2.0 mg/l air.
- Flash point (closed cup):** >89<sup>o</sup>C.

## 10. STABILITY AND REACTIVITY

- 10.1 **Chemical Stability :** Stable under the normal conditions. If unstable, condition to avoid unstable reaction.
- 10.2 **Reactivity:** May react with strong oxidizing agents.
- 10.3 **Incompatible Materials :** Oxidizing agents, strong acids or bases.
- 10.4 **Hazardous Polymerization :** May occur. If polymerization may occur, condition to avoid it.
- 10.5 **Hazardous Decomposition Product:** CO, nitrogen oxides, hydrogen chloride, organic compounds such as aromatic compounds.
- 10.6 **Others:** Avoid high temperature.

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Acute Toxicity:

Oral LD <sub>50</sub> (rat)	300-2000 mg/kg (male, female).
Dermal LD <sub>50</sub> (rat)	>2000 mg/kg (male)
Inhalation LC <sub>50</sub> (rat)	>2.0 mg/L air.
Subacute Toxicity (as active ingredient)	90-days-repeated dose toxicity test. NOEL(rat):12.4mg/kg/day(male),14.6mg/kg/day(female)
Sensitization:	Non-sensitizing (Guinea pig)

- 11.2 **Carcinogenicity (as active ingredient)** : Negative (rat, mouse)  
NTP : Not available. IARC Monograph: Not available. ACGIH Regulated: Not available.  
**Mutagenic Toxicity:** Ames test: Negative, Chromosomal aberration test: Positive (in vitro), Negative (in vivo), UDS test : Negative , Micronucleus test : Negative

## 12. ECOLOGICAL INFORMATION

### 12.1 Ecological toxicity : Acute Toxicity to aquatic organisms.

Acute Fish	LC50 (carp) : >100mg/L (24-96 hr).
Acute Daphnia Toxicity:	EC50 (daphnia magna) : >200mg/L (24hr).
Acute Algae toxicity:	EC50 (green algae) : >97.8mg/L (72hr).
Bees:	This material is toxic to bees exposed to direct treatment. Do not apply this product while bees are activity visiting the treatment area.

- 12.3 **Persistence and Degradability:** Bio-degradation : Not readily degradable. Degradation in soil : Readily degradable.
- 12.4 **Bio-accumulative Potential:** No data is available, but the active ingredient is estimated to be low bio accumulative because of low partition coefficient.

## 13. DISPOSAL CONSIDERATION

Dispose of according to local regulations. Avoid entry of product into sewer system or water surfaces.

## 14. TRANSPORT INFORMATION

UN number	:	2902 (Pesticide , liquid , toxic , n.o.s).
Class	:	6.1
Packing group	:	III

## 15. REGULATORY INFORMATION

**Symbol:** Xn

**Risk phrase:**

R22: Harmful if swallowed.  
R21: Harmful in contact with skin.  
R36: Irritating to eyes.

**Safety phrase:**

S1/2: Keep locked up and out of the reach of children.  
S29/56: Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
S36/37: Wear suitable protective clothing and gloves.

## 16. OTHER INFORMATION

**Disclaimer:** 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.