

**MATERIAL SAFETY DATA SHEET**

**Admore 20% SC**

**SECTION 1. IDENTIFICATION OF THE SUBSTANCE**

**Trade Name:** Admore

**Common name:** Imidacloprid

**CAS code:** 138261-41-3

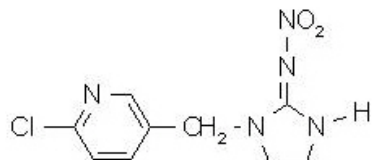
**Chemical name:** 1-[(6-chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine

**Chemical family:** neonicotinoid

**Molecular weight:** 255.7

**Chemical formulation:** C<sub>9</sub>H<sub>10</sub>ClN<sub>5</sub>O<sub>2</sub>

**Chemical structure:**



**SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS**

CONTENTS	TYPE OF FORMULATIONS SC		
	Common Name	Concentration	Total
ACTIVE INGREDIENT	Imidacloprid	20%	20%
INERT INGREDIENT	Other	80%	80%
<b>Total</b>			100%

**SECTION 3. HAZARDS IDENTIFICATION**

**Inhalation:** Not expected to be harmful if inhaled.

**Skin Contact:** Repeated skin exposure may cause irritation and allergic disorders.

**Eye Contact:** May be slightly irritating to the eyes.

**Ingestion:** Harmful if swallowed.

**Chronic effects of Overexposure:**

Animal studies show no evidence of oncogenic effect, no evidence of carcinogenic effects and no teratogenic potential.

**Signs and Symptoms:**

No adverse health effects are expected if this product is used in accordance with the label. Symptoms of intoxication that may arise if the product is mishandled include: apathetic state, depressed muscular tone, respiratory disturbances and trembling. Muscular cramps are also possible in severe cases of poisoning.

#### **SECTION 4. FIRST AID MEASURES**

##### **IF SWALLOWED**

Provided the patient is conscious, wash out mouth with water. Vomiting should only be induced under the direction of a physician. If spontaneous vomiting occurs, have victim lean forward with head down to avoid breathing in of vomitus. Immediately transport victim to an emergency facility.

##### **IF IN EYES**

Irrigate for 15 minutes with copious quantities of water with eyelids held open. If irritation persists, seek medical attention immediately.

##### **IF ON SKIN**

Remove contaminated clothing. Flush skin with running water for a minimum of 20 minutes. If swelling, redness, blistering or irritation occurs seek medical attention immediately.

##### **IF INHALED**

Remove victim to fresh air. If not breathing, give artificial respiration preferably mouth-to-mouth. If breathing is labored, give oxygen. Obtain immediate medical attention.

#### **SECTION 5. FIRE FIGHTING MEASURES**

##### **Extinguishing media:**

Sprayed water jet, foam, extinguishing powder, carbon dioxide, and sand

##### **Special fire fighting procedures:**

Wear full protective clothing and self-contained breathing apparatus.

##### **Unusual fire and explosion hazards:**

Fight large fires from a protected location or safe distance. Stay away from the ends of tanks. Dike for later disposal. Do not scatter spilled material with high-pressure water streams. Use extinguishing agents appropriate for surrounding fire.

Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas

### ***SECTION 6.ACIDENTAL RELEASE MEASURES***

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#### **General and Disposal Evacuation procedures and safety:**

Do not touch spilled material. Stop leak if possible without personal risk. Reduce vapor with water spray. Small spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal. Small dry spills: Move container away from spill to a safe area. Large spills: Dike for later disposal. Keep unnecessary people away, isolate hazard area and deny entry. Ventilate closed spaces before entering.

#### **Spill and Leak procedures:**

Prevent spill from spreading or entering waterways or drains. Take up with absorbent material such as sawdust, peat or binding agent for chemicals. Fill material along with any contaminated soil etc. into sealable containers. Clean affected area with an aqueous detergent and a small amount of water. On completion of clean-up remove and wash all protective clothing and equipment with detergent and water. Any heavily contaminated clothing should be placed in a plastic garbage bag and placed in a sealable drum. Do not smoke, eat or drink during clean-up operation.

### ***SECTION 7.HANDLING AND STORAGE***

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Store and handle in accordance with all current regulations and standards. Keep separated from incompatible substances.

1. Keep out of reach of children and animals.

2. Personnel handling this product should be thoroughly trained as to its hazards.
3. Use non sparking tools and grounded/bonded equipment and containers when transferring.
4. Do not ingest.
5. Do not breathe dust or mists.
6. Avoid getting material on clothing.
7. Use handling, storage and disposal procedures that will prevent contamination of water, food or feed.

## **SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION**

### **Eye Protection:**

Wear splash resistant safety goggles with a faceshield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

### **Skin protection:**

Wear long sleeves and trousers to prevent skin contact.

### **Ventilation:**

Provide local exhaust ventilation system. Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Ensure compliance with applicable exposure limits.

### **Additional protective measures:**

Clean water should be available for washing in case of eye or skin contamination. Educate and train employees in safe use of the product. Follow all label instructions. Launder clothing after use. Wash thoroughly after handling.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPERANCE</b>	: white liquid
<b>pH</b>	: 5
<b>DENSITY</b>	: 1.08 g/cm <sup>3</sup>
<b>FLASH POINT</b>	: >65°C
<b>COMPATABILITY</b>	: The product is compatible with most other pesticides.
<b>STORAGE STABILITY</b>	: Accepted

## **SECTION 10. STABILITY AND REACTIVITY**

### **Stability:**

Stable at normal temperatures and pressure and hydrolysis at pH 5-11

### **Conditions to Avoid:**

Avoid heat, flames, sparks and other sources of ignition. Containers may rupture or explode if exposed to heat.

**Incompatibility:** none known.

**Decomposition products** proposed: HCl, HCN, CO, Nox

**Hazardous Polymerization:** will not polymerize.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY	ANIMAL	LD 50 mg/kg BODY WEIGHT	
		TECHNICAL	FORM
<b>ORAL</b>	Rat	450 mg/kg	1300 mg/kg
<b>DERMAL</b>	Rat	>5000 mg/kg	>14300 mg/kg
<b>INHALATION (MG/M3/2H)</b>	Rat	>5323 mg/l	>15000 mg/kg
<b>SKIN IRRITATION</b>	Rabbit	Non-irritating	Non-irritating
<b>EYE IRRITATION</b>	Rabbit	Non-irritating	Non-irritating
<b>SKIN SENSITIZATION</b>	Guinea Pig	Non-irritating	Non-irritating

## **SECTION 12. ECOLOGICAL INFORMATION**

### **Effects on Birds:**

Imidacloprid is toxic to upland game birds. The LD50 is 152 mg/kg for bobwhite quail, and 31 mg/kg in Japanese quail.

In studies with red-winged blackbirds and brown-headed cowbirds, it was observed that birds learned to avoid imidacloprid treated seeds after experiencing transitory gastrointestinal distress (retching) and ataxia (loss of coordination).

It was concluded that the risk of dietary exposure to birds via treated seeds was minimal. Based on these studies, imidacloprid appears to have potential as a bird repellent seed treatment.

#### **Effects on Aquatic Organisms:**

The toxicity of imidacloprid to fish is moderately low. The 96-hour LC50 of imidacloprid is 211 mg/l for rainbow trout, 280 mg/l for carp, and 237 mg/l for golden orfe.

In tests with the aquatic invertebrate Daphnia, the 48-hour EC50 (effective concentration to cause toxicity in 50% of the test organisms) was 85 mg/l.

Products containing imidacloprid may be very toxic to aquatic invertebrates.

#### **Effects on Other Animals (Nontarget species):**

Imidacloprid is highly toxic to bees if used as a foliar application, especially during flowering, but is not considered a hazard to bees when used as a seed treatment

### **SECTION 13. DISPOSAL INSTRUCTION**

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#### **After intended use:**

Rinse container before disposal. Add rinsings to the spray tank. Do not dispose of undiluted chemicals on site. Break, puncture, crush and bury rinsed container in a local authority landfill (check local statutory requirements). If not available, bury the container below 500 mm in a marked disposal pit specifically set up for this purpose, clear of waterways, vegetation and roots.

Empty container and product should not be burnt.

#### **After spill or accident:**

Dispose of sealed containers at an approved local waste disposal site.

#### **SECTION 14. TRANSPORT INFORMATION**

Class: 9

UN NO.: 3082

This product is not classified as a Dangerous Good.

#### **SECTION 15. REGULATORY INFORMATION**

R phrases: R23/25-48

S phrases: S2/7/9/13/36/39

#### **SECTION 16. OTHER INFORMATION**

All information and instructions provided in this Material Safety Data Sheet (MSDS) are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS and are presented in good faith and believed to be correct. This information applies to the PRODUCT AS SUCH. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear. It is the responsibility of persons on receipt of this MSDS to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produce formulations containing this product, it is the recipients sole responsibility to ensure the transfer of all relevant information from this MSDS to their own MSDS.