

Agrisel US, Inc.  
P.O. Box 3528  
Suwanee, GA 30024

## Material Safety Data Sheet

### SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

**Product Name:** AGRISEL IMIDAPRO 2SC  
**EPA Reg. No.:** 83529-2-72159  
**Product Use:** Pest management and suppression of insect vectored diseases and maintenance of plant health.

**For MEDICAL, TRANSPORTATION or other EMERGENCY call CHEMTREC at 1-800-424-9300 (24 hours/day)**

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous Component Name</u>	<u>CAS-No.</u>	<u>Average % by Weight</u>
Imidacloprid	138261-41-3	21.40

### SECTION 3. HAZARDS IDENTIFICATION

*Please refer to Section 11 for detailed toxicological information.*

#### **Emergency Overview:**

Caution. Hazardous to humans and domestic animals. Harmful if swallowed or absorbed through skin. Keep out of reach of children and animals.

<b>Physical State</b>	Viscous liquid suspension
<b>Odor</b>	Lignin
<b>Appearance</b>	Beige opaque
<b>Routes of Exposure</b>	Inhalation, Skin contact, skin absorption
<b>Immediate Effects:</b>	
<b>Eye</b>	May cause eye irritation. Eye injury may persist for several days.
<b>Skin</b>	Harmful if absorbed through skin. No skin irritation. Non-sensitizing.
<b>Ingestion</b>	Harmful if swallowed.
<b>Inhalation</b>	Harmful if inhaled.

**Chronic or Delayed Long-Term Effects:** This product is not listed by NTP, IARC or regulated as a carcinogen by OSHA.

**Medical Conditions Aggravated by Exposure:** No specific medical conditions are known which may be aggravated by exposure to this product.

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

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##### **FIRST AID**

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|--------------------------------|---|
| <b>IF SWALLOWED:</b>           | <ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul> |
| <b>IF IN EYES:</b>             | <ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>  |
| <b>IF ON SKIN OR CLOTHING:</b> | <ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15 to 20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>  |
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Have a product container or label with you when calling a poison control center or doctor, or going for treatment.

**Emergency response telephone number: 1-800-222-1222**

**NOTE TO PHYSICIAN: No specific antidote is available. Treat the patient symptomatically.**

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

**FlashPoint:** Contains no flammable ingredients and is water based.

**Lower Flammability/Upper Flammability Limit:** Not applicable

**Fire and Explosion Hazards:** May give off poisonous fumes including hydrogenchloride and oxides of nitrogen.

**Suitable Extinguishing Media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Fire Fighting Instructions:** Keep out of smoke. Cool containers / tanks with water spray. Fight fire from upwind position. Do not allow run-off from fire fighting to enter drains or water courses. Equipment or materials involved in pesticide fires may become contaminated.

Wear self-contained breathing apparatus and protective suit.

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## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

Dike area to prevent runoff. Recover material, if possible. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up and place in appropriate closed container (see Section 7: Handling and Storage). Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Collect and contain contaminated absorbent and dike material for disposal. Do not allow spilt product to enter soil or waterways.

Isolate area and keep unauthorized people away. Avoid breathing vapors and avoid skin contact. Use proper protective equipment to minimize personal exposure (see Section 8). Contaminated soil may have to be removed and disposed. Contact DeAngelo Brothers Inc. for further assistance if necessary.

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

<b>Handling</b>	Read label carefully before use. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.
<b>Storage</b>	Store in an area that is clean, dry and cool. Store in an area away from food, feedstuffs, fertilizers and seed. Store in an area designated specifically for pesticides.
<b>Hygiene</b>	Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove Personal Protective Equipment (PPE) immediately after handling this product.
<b>Storage Temperatures</b>	No minimum / 30 day average not to exceed 100 F.

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

<b>Engineering Controls</b>	Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.
<b>Eye/Face Protection</b>	Splash goggles
<b>Hand Protection</b>	Chemical resistant gloves made of waterproof material such as polyethylene or polyvinyl chloride.
<b>Body Protection</b>	Wear long-sleeved shirt and long pants and shoes plus socks.
<b>Respiratory Protection</b>	No personal respiratory protective equipment normally required. When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or Industry recommendations.
<b>General Protection</b>	Follow all label instructions. Eye wash facility and safety shower should be available. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water.

### **Exposure Limits**

Glycerine 56-81-5

ACGIH	TWA	10	mg/m <sup>3</sup>
Form of Exposure	Mist.		
OSHAZ1	PEL	5	mg/m <sup>3</sup>
Form of Exposure	Respirable fraction.		
OSHAZ1	PEL	15	mg/m <sup>3</sup>
Form of Exposure	Total dust.		
OSHAZ1A	TWA	5	mg/m <sup>3</sup>
Form of Exposure	Respirable fraction.		
OSHAZ1A	TWA	10	mg/m <sup>3</sup>
Form of Exposure	Total dust.		
US CA OEL	TWA PEL	5	mg/m <sup>3</sup>
Form of Exposure	Respirable fraction.		
US CA OEL	TWA PEL	10	mg/m <sup>3</sup>

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



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<b>Appearance</b>	Beige, opaque
<b>Physical State</b>	Liquid suspension
<b>Odor</b>	Lignan
<b>pH</b>	6.91
<b>Specific Gravity</b>	1.097 at 24 °C
<b>Water Solubility</b>	Dispersible
<b>Viscosity</b>	430 mPa.s at 25 °C

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

<b>Chemical Stability</b>	Stable under normal conditions
<b>Incompatibility</b>	None known
<b>Hazardous Decomposition Products</b>	Hydrogen chloride (HCl) Hydrogen cyanide (hydrocyanic acid) Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide Nitrogen oxides (NO <sub>x</sub> )
<b>Hazardous Reactions</b>	Will not occur

#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Only acute toxicity studies have been conducted on this product as formulated. The non-acute information pertains to the active ingredient, imidacloprid.

<b>Acute Oral Toxicity</b>	<b>male rat:</b> LD50: > 4,870 mg/kg <b>female rat:</b> LD50: 4,143 mg/kg
<b>Acute Dermal Toxicity</b>	<b>male/female rabbit:</b> LD50: > 2,000 mg/kg
<b>Acute Inhalation Toxicity</b>	<b>male/female rat:</b> LC50: > 5.33 mg/l -- <b>Exposure time:</b> 4 h (actual) Determined in the form of liquid aerosol. <b>male/female rat:</b> LC50: > 20 mg/l <b>Exposure time:</b> 1 h (actual) Determined in the form of liquid aerosol. Extrapolated from the 4 hr LC50.
<b>Skin Irritation</b>	<b>rabbit:</b> No skin irritation
<b>Eye Irritation</b>	<b>rabbit:</b> Mild irritation to the cornea and conjunctiva was observed with all irritation clearing within 7 days post-treatment.
<b>Sensitization</b>	<b>guinea pig:</b> Non-sensitizing
<b>Subchronic Toxicity</b>	In a 3-week dermal toxicity study, rabbits treated with imidacloprid showed no local or systemic effects at levels up to and including 1000 mg/kg, the limit dose. In a 4-week inhalation study, rats exposed to high concentrations of imidacloprid exhibited decreased body weight gains and changes in clinical chemistries and organ weights.
<b>Chronic Toxicity</b>	In chronic dietary studies in rats and dogs exposed to imidacloprid, the target organs were the thyroid and/or liver.
<b>ACGIH</b>	None
<b>NTP</b>	None
<b>IARC</b>	None
<b>OSHA</b>	None
<b>Reproductive Toxicity</b>	In a two-generation reproduction study in rats, imidacloprid was not a primary reproductive toxicant. Offspring exhibited reduced body weights at the high dose and in conjunction with maternal toxicity.
<b>Developmental Toxicity</b>	In developmental toxicity studies in rats and rabbits, there was no evidence of an embryotoxic or teratogenic potential for imidacloprid. In both species, developmental effects were observed only at high doses and in conjunction with maternal toxicity.
<b>Neurotoxicity</b>	In acute and subchronic neurotoxicity screening studies in rats, imidacloprid produced slight neurobehavioral effects in each study at the highest dose tested. There were no correlating morphological changes observed in the neural tissues. In a one-generation developmental neurotoxicity screening study in rats, offspring exposed to imidacloprid showed decreased motor activities. These effects occurred at the highest dose tested

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	and in conjunction with maternal toxicity. There were no correlating morphological changes observed in the neural tissues.
<b>Mutagenicity</b>	The imidacloprid mutagenicity studies, taken collectively, demonstrate that the active ingredient is not genotoxic or mutagenic.

**Carcinogenicity Assessment:** In oncogenicity studies in rats and mice, imidacloprid was not carcinogenic in either species.

## **SECTION 12. ECOLOGICAL INFORMATION**

Extremely toxic to aquatic and estuarine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Notify state and/or Federal authorities and DeAngelo Brothers Inc. immediately if you observe any adverse environmental effects due to the use of this product.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

## **SECTION 13. DISPOSAL CONSIDERATIONS**

Follow container label instructions for disposal of wastes generated during use in compliance with the product label. In other situations, bury in an approved landfill or burn in an incinerator approved for pesticide destruction. Do not re-use empty containers.

Packaging that cannot be cleaned should be disposed of as product waste.

## **SECTION 14. TRANSPORT INFORMATION**

### **DOT CLASSIFICATION:**

Not regulated for Domestic Surface Transportation

### **FREIGHT CLASSIFICATION:**

Insecticides or Fungicides, N.O.I., other than poison

### **US Federal Regulations**

TSCA list: None.

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D):  
None.

SARA Title III - Section 302 - Notification and Information: None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting: None.

### **US States Regulatory Reporting**

CA Prop65: This product does not contain any substances known to the State of California to cause cancer.  
This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients: None.

### **Canadian Regulations**

**Canadian Domestic Substance List:** None.

### **Environmental**

**CERCLA:** None.

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**Clean Water Section 307 Priority Pollutants:** None.  
**Safe Drinking Water Act Maximum Contaminant Levels:** None.

## **SECTION 15. OTHER INFORMATION**

### **NFPA**

Health -1      Flammability -1      Reactivity -1      Others – none

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason to Revise: Update format; change MSDS Number.

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This information is provided in good faith but without express or implied warranty. Buyer assumes all responsibility for safety and use not in accordance with label instructions.