

1. IDENTIFICATION

Product name: **SOMBRERO 600 FS (PCP Reg. No. 30505)**
 Chemical name of active ingredient(s): Imidacloprid: 1-[(6-chloro-3-pyridinyl)methyl]-*N*-nitro-2-imidazolidinimine
 Manufacturer/Registrant: ADAMA Agricultural Solutions Canada Ltd
 302-179 McDermot Ave
 Winnipeg, MB, Canada R3B 0S1
 Phone: 1-855-264-6262
 Phone: 1-800-535-5053

For fire, spill, and/or leak emergencies, contact Infotrac:
 For medical emergencies and health and safety inquiries, contact Prozar: Phone: 1-877-250-9291

2. COMPOSITION/INFORMATION ON INGREDIENTS

COMMON NAME	CAS NO.	%	OSHA PEL	ACGIH TLV	OSHA TWA	NTP/IARC/OSHA (Carcinogen)
Imidacloprid	138261-41-3	48.4	NE 5 mg/m ³ (Respirable Fraction)	NE 10 mg/m ³	NE 5 mg/m ³ (Respirable Fraction)	NA NA
Glycerine	56-81-5	8.1	15 mg/m ³ (Total Dust)		10 mg/m ³ (Total Dust) (TWA)	

NE: Not established; NA: Not applicable.

3. HAZARDS IDENTIFICATIONS**PHYSICAL PROPERTIES:**

Appearance: Opaque white liquid
 Odor: faint chemical

EMERGENCY OVERVIEW: CAUTION Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapor or spray mist. Avoid contact with skin eyes, or clothing.

LIKELY ROUTES OF EXPOSURE: Inhalation, ingestion, skin absorption and eye contact.

SYMPTOMS OF ACUTE EXPOSURE: Inhalation, ingestion, skin absorption, eye contact.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition hydrogen chloride (HCl)
 Nitrogen oxides (NO_x).

4. FIRST AID MEASURES**FIRST AID:**

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

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: No specific antidote is available. Treat the patient symptomatically.

5. FIRE FIGHTING MEASURES

FLASHPOINT: > 79°C (174.2°F)

FLAMMABLE LIMITS (% in air): Not applicable

AUTOIGNITION TEMPERATURE: Not applicable

EXTINGUISHING MEDIA: Foam, carbon dioxide (CO₂), dry chemical and water spray.

FIRE AND EXPLOSION HAZARDS: Dangerous gases are evolved in the event of a fire.

FIRE-FIGHTING PROCEDURES: Keep out of smoke. Fight fire from upwind position. Cool closed containers/tanks exposed to fire with water spray. Do not allow run-off fire fighting to enter drains or water courses. Firefighters should wear NOISH approved self-contained breathing apparatus and full protective clothing.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition hydrogen chloride (HCl)
Nitrogen oxides (NO_x).

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces. Use personal protective equipment.

ACTION TO TAKE FOR SPILLS: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Collect and transfer the product into a properly labeled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

ADDITIONAL INFORMATION: Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

7. HANDLING AND STORAGE

Do not contaminate water, foodstuffs, feed or seed by storage or disposal, or by cleaning of equipment. Do not reuse empty container. Open dumping is prohibited.

PRECAUTIONS TO BE TAKEN IN HANDLING: Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of reach of children, preferably in a locked storage area. Keep container closed. Do not store in direct sunlight. Protect from freezing temperatures.

STORAGE TEMPERATURE (MIN/MAX): Normal ambient storage temperatures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, AND PACKAGING OF THE PRODUCT.

FOR COMMERCIAL APPLICATION AND ON-FARM APPLICATIONS, CONSULT THE PRODUCT LABEL.

EYE PROTECTION: Wear protective eyewear.

HAND PROTECTION: Chemical resistant nitrile rubber gloves. Do not use leather or cloth gloves.

SKIN PROTECTION: Wear long-sleeved shirt and long pants and shoes plus socks.

RESPIRATORY PROTECTION: 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.

Follow manufacturer's instructions for cleaning/ maintaining personal protective equipment, PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS:

Users should:

- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets insides. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change clothing.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Opaque white liquid

ODOR: Faint chemical

FLASH POINT: > 79°C

pH: 7.08

DENSITY: 1.2345 g/mL @ 20° C

10. STABILITY AND REACTIVITY

STABILITY: This product is stable under normal conditions.

CONDITIONS TO AVOID: None known.

MATERIALS TO AVOID: None known.

HAZARDOUS REACTIONS: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition hydrogen chloride (HCl)
Nitrogen oxides (NO_x).

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES:

Acute Oral LD₅₀ (Rat): >500 mg/kg – M 825 mg/kg (female)

Acute Dermal LD₅₀ (Rabbit): >2,000 mg/kg (male and female)

Acute Inhalation LC₅₀ (Rat): > 2.5 mg/L air (4 hr. male); > 1.02 - < 2.02 mg/L (4 hr. female)

Eye Irritation (Rabbit): Minimally irritating

Dermal Irritation (Rabbit): Slightly irritating

Dermal Sensitization (Guinea pig): Not a skin sensitizer.

Chronic Toxicity: Imidacloprid caused thyroid and/or liver effects in chronic dietary studies in rats and dogs.

Reproductive Toxicity: Imidacloprid was not a reproductive toxicant in a multigeneration study in rats.

Developmental Toxicity: Imidacloprid is not considered a primary developmental toxicant in rats and rabbits. Developmental effects were observed at doses tht caused maternal toxicity.

Neurotoxicity: Imidacloprid showed slight behavioral and activity changes only at the highest dose tested in neurotoxicity studies in rats. There were no correlating morphological changes observed in the neural tissues.

Mutagenicity: Imidacloprid was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL HAZARDS: This product is toxic to wildlife. Keep out of lakes, streams, ponds or other aquatic systems. Do not contaminate water when disposing of equipment washwaters. This product is highly toxic to aquatic invertebrates. This product is toxic to birds. Dispose of all excess and any spilled treated seed pieces by covering or incorporating into the soil. Left over treated seed should be double sown around the headland, or buried away from water sources such as lakes, streams, ponds or other aquatic systems. Apply this product only in accordance with this label.

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

CONTAINER DISPOSAL: Do not reuse this container for any purpose. This is a recyclable container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site: Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank. Make the empty, rinsed container unsuitable for further use. If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

14. TRANSPORT INFORMATION

CANADIAN TDG DESCRIPTION (Road & Rail):

Not Regulated.

15. REGULATORY INFORMATION

CANADIAN REGULATIONS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

SARA TITLE III CLASSIFICATION:

Section 302: Not applicable
 Section 311/312: Acute health hazard (immediate)
 Section 313: Not applicable

CA PROPOSITION 65: Not applicable

CERCLA RQ: Not applicable

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

NFPA HAZARD RATINGS

		0	MINIMAL
HEALTH:	1	1	SLIGHT
FLAMMABILITY:	1	2	MODERATE
REACTIVITY:	0	3	HIGH
		4	SEVERE

MSDS DATE: 1-26-16 supercedes 11-21-12.

The information herein is given in good faith, but no warrant, express or implied, is made. Consult Makhteshim Agan of North America, Inc. for further information.