

Safety Data Sheet



Section 1: Identification

Product identifier

- Product Name** • **Starbar Adonis 4F Insecticidal Spray**
- Synonyms** • 100209027; EPA Reg. No.: 89459-53
- Product Description** • Off-white viscous liquid.

Relevant identified uses of the substance or mixture and uses advised against

- Recommended use** • Insecticide.
- Restrictions on use** •
Keep out of the reach of children. Avoid contact with eyes, skin or clothing. Avoid release to the environment. Do not take internally.

Details of the supplier of the safety data sheet

- Manufacturer** • Central Garden & Pet Company
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States

www.zoecon.com

Emergency telephone number

- Manufacturer (Transportation)** • 1-800-424-9300 - CHEMTREC
- Manufacturer (Transportation)** • 1-703-527-3887 - CHEMTREC - outside North America - Collect Calls Accepted
- Manufacturer** • 1-800-248-7763

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012** • Acute Toxicity Oral 4

Label elements

OSHA HCS 2012

WARNING



Hazard statements • Harmful if swallowed

Precautionary statements

- Prevention** • Wash thoroughly after handling.
Do not eat, drink or smoke when using this product.
- Response** • IF SWALLOWED: Call poison control center or doctor if you feel unwell.
Rinse mouth.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards**OSHA HCS 2012**

- This pesticide is highly toxic to bees. Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Imidacloprid	CAS:138261-41-3	42.3%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures**Description of first aid measures****Inhalation**

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If signs/symptoms continue, get medical attention.

Skin

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

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

- IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting unless directed by medical personnel.

Most important symptoms and effects, both acute and delayed

- Harmful if swallowed. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures**Extinguishing media**

Suitable Extinguishing Media • Use water fog, foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media • No data available.

Firefighting Procedures • Do not allow fire fighting water to escape into waterways or sewers.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • No data available.

Hazardous Combustion Products • Thermal decomposition may produce gases such as hydrogen chloride, hydrogen cyanide, carbon oxides and nitrogen oxides.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures**Personal precautions, protective equipment and emergency procedures**

Personal Precautions • Avoid contact with skin, eyes, and clothing. Wear appropriate personal protective equipment, avoid direct contact.

Emergency Procedures • Avoid release into the environment. Avoid contact with eyes and skin, and inhalation of vapors. Avoid unnecessary personnel and equipment traffic in the spill area. Ventilate closed spaces before entering.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Absorb spills with an inert material, clay granules or other inert absorbent material and put in container for disposal.

Section 7 - Handling and Storage**Precautions for safe handling**

Handling • Wash hands thoroughly with soap and water after handling. Read label before use.

Conditions for safe storage, including any incompatibilities

Storage • Keep container/package tightly closed in a cool, well-ventilated place. Protect from sunlight. Avoid excessive heat.

Incompatible Materials or Ignition Sources • Strong acids and oxidizing agents.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines • No data available.

Exposure controls

Engineering Measures/Controls • Use adequate ventilation to remove vapors (fumes, dust, etc.)

Personal Protective Equipment

Pictograms



Respiratory

• If handling without sufficient ventilation, wear a NIOSH approved respirator.

Eye/Face

• Wear chemical splash safety goggles.

Hands

• Wear chemical-resistant gloves made of any waterproof material such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyethylene, polyvinylchloride (PVC), or Viton.

Skin/Body

• Wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Environmental Exposure Controls

• Avoid release to the environment.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Liquid	Appearance/Description	Off-white viscous liquid.
Color	Off-white	Odor	Mild
Odor Threshold	No data available		
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	6.5 to 7.5
Specific Gravity/Relative Density	9.90 lbs/gal	Water Solubility	Miscible
Viscosity	No data available		
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available		
Flammability			
Flash Point	> 100 °C(> 212 °F)	UEL	No data available
LEL	No data available	Autoignition	No data available
Flammability (solid, gas)	Not Flammable.		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- No dangerous reaction known under conditions of normal use.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur.

Conditions to avoid

- Excess heat.

Incompatible materials

- Strong oxidizing agents and strong acids.

Hazardous decomposition products

- Decomposes upon heating to produce toxic vapors/gases which may include hydrogen chloride, hydrogen cyanide, carbon oxides and nitrogen oxides.

Section 11 - Toxicological Information**Information on toxicological effects**

Components		
Imidacloprid (42.3%)	138261-41- 3	Acute Toxicity: Ingestion/Oral-Rat LD50 • >450 mg/kg; Inhalation-Rat • >5 mg/L; Skin-Rat LD50 • >5000 mg/kg

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral 4
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met
STOT-RE	OSHA HCS 2012 • Classification criteria not met

Route(s) of entry/exposure • Inhalation, Ingestion, Eyes, and Skin

Potential Health Effects**Inhalation****Acute (Immediate)**

- Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

- No data available.

Skin

- Acute (Immediate)** • May cause mild irritation.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • May cause mild irritation.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • Harmful if swallowed.
- Chronic (Delayed)** • No data available.

Mutagenic Effects

- Imidacloprid has been tested and found negative for mutagenicity potential.

Carcinogenic Effects

- Imidacloprid did not cause cancer in laboratory animal studies. No other components present at 0.1% or greater are listed by IARC, OSHA or NTP.

Reproductive Effects

- Imidacloprid did not cause birth defects or adverse effects on reproduction in laboratory animal studies.

Section 12 - Ecological Information

Toxicity

Components		
Imidacloprid (42.3%)	138261-41-3	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 211 mg/L [Acute] 96 Hour(s) LC50 <i>Leuciscus idus</i> 237 mg/L [Acute] Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 <i>Daphnia magna</i> 85 mg/L [Acute]

Persistence and degradability

- No data available.

Bioaccumulative potential

- No data available.

Mobility in Soil

- No data available.

Other adverse effects

Potential Environmental Effects

- This product is highly toxic to bees.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. See product label for disposal instructions.

Section 14 - Transport Information

	UN	UN proper shipping	Transport hazard class	Packing	Environmental
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	number	name	(es)	group	hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • Not relevant.

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

FIFRA – Pesticide Labeling

This material is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • Keep out of reach of children.

Hazards to Humans and Domestic Animals

Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

IF INHALED:• Move person to fresh air.• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.• Call a poison control center or doctor for further treatment advice.**IF SWALLOWED:**• Call a poison control center 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 center or doctor.• Do not give anything by mouth to an unconscious person.**IF IN EYES:**• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.**IF ON SKIN OR CLOTHING:**• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.**NOTE TO PHYSICIAN:** No specific antidote is available. Treat the patient symptomatically.

Environmental Hazards

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 water when disposing of equipment washwaters. 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. This

product is toxic to wildlife and highly toxic to aquatic invertebrates. This chemical demonstrates the properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable particularly where the water table is shallow, may result in ground water contamination.

Section 16 - Other Information

Revision Date	<ul style="list-style-type: none">• 04/March/2016
Last Revision Date	<ul style="list-style-type: none">• 04/March/2016
Preparation Date	<ul style="list-style-type: none">• 04/March/2016
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