

# SAFETY DATA SHEET

Issue Date 05-Aug-2016 Revision Date 05-Aug-2016 Version 1

# 1. IDENTIFICATION

Product identifier

Product Name Azoxy + Propi SE

Other means of identification

Product Code83529-49SynonymsPropazRegistration Number(s)83529-49

Recommended use of the chemical and restrictions on use

Recommended Use Fungicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Manufacturer Address Sharda USA LLC P.O. Box 640

Hockessin, DE 19707

**Emergency Telephone** 

Website: www.shardausa.com

Emergency telephone number

Company Phone Number 610-350-6930 (US)

+91 22 5678 2800 (India) CHEMTREC: 800-424-9300

CHEMTREC: 703-527-3887

POISON CONTROL CENTER: 800-222-1222

# 2. HAZARDS IDENTIFICATION

# Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2A

#### Label elements

# **Emergency Overview**

#### Warning

#### **Hazard statements**

Harmful if swallowed Harmful if inhaled Causes serious eye irritation

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Appearance viscous aqueous solution

Physical state liquid

**Odor** Characteristic

#### **Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary Statements - Response**

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

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

# Other Information

Very toxic to aquatic life with long lasting effects. Causes mild skin irritation.

#### Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### <u>Mixture</u>

Chemical Name	CAS No	Weight-%
Other ingredients *	Proprietary	60 - 100
Azoxystrobin	131860-33-8	13.5
Propiconazole	60207-90-1	11.7

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

# 4. FIRST AID MEASURES

#### Description of first aid measures

General advice

Call a poison control center or doctor for treatment advice. Have the product containers or label with you when calling a poison control center or doctor, or going for treatment.

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Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control

center or doctor for treatment advice.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call

a physician. Call a poison control center or doctor for treatment advice.

Inhalation Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration.

Call a physician or poison control center immediately. Administer oxygen if breathing is

difficult.

Ingestion Call a physician or poison control center immediately. Do not induce vomiting without

medical advice. Never give anything by mouth to an unconscious person.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions

to protect themselves.

Most important symptoms and effects, both acute and delayed

**Symptoms** May cause redness and tearing of the eyes. May cause skin irritation.

Indication of any immediate medical attention and special treatment needed

Note to physicians No specific antidote. Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Dry chemical, CO2, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog or regular foam.

Unsuitable extinguishing media None.

# Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products Carbon oxides. Hydrogen chloride.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

# Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray.

# 6. ACCIDENTAL RELEASE MEASURES

# Personal precautions, protective equipment and emergency procedures

**Personal precautions** Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined

areas. Use personal protective equipment as required. Keep people away from and upwind

of spill/leak.

For emergency responders Use personal protection recommended in Section 8. Ventilate the area.

**Environmental precautions** 

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**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Cover liquid spill with sand, earth or other non-combustible absorbent material. Sweep up Methods for cleaning up

and shovel into suitable containers for disposal.

# 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Wash contaminated clothing before reuse.

Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep away from food, drink and animal feeding stuffs. Keep in properly labeled

containers.

Packaging materials Do not reuse container.

Incompatible materials Strong oxidizing agents.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls** 

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. And. Showers. Eyewash

stations. Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or

boots.

Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded Respiratory protection

or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local

regulations.

**General Hygiene Considerations** When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

> clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated

clothing before reuse.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

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#### Information on basic physical and chemical properties

Physical state liquid

**Appearance** viscous aqueous solution Odor Characteristic

Color Odor threshold light yellow No information available

Seta Closed Cup

@ 25 °C

Values Remarks • Method Property

No information available

7.1 solution (1 %) pН

Melting point / freezing point No information available Boiling point / boiling range

Flash point > 100 °C / > 212 °F **Evaporation rate** No information available

Flammability (solid, gas) No information available

Flammability Limit in Air

**Upper flammability limit:** No information available Lower flammability limit: No information available

Vapor pressure ~17 mmHa

Vapor density No information available

Relative density 1.08 Water solubility dispersible

Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition temperature** No information available **Decomposition temperature** No information available Kinematic viscosity No information available Dynamic viscosity No information available

**Explosive properties** Not an explosive Not applicable **Oxidizing properties** 

**Other Information** 

Softening point No information available Molecular weight No information available **VOC Content (%)** No information available **Density** No information available **Bulk density** No information available

# 10. STABILITY AND REACTIVITY

#### Reactivity

No data available

# **Chemical stability**

Stable under recommended storage conditions.

# Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Elevated Temperature. Storage near to reactive materials.

#### Incompatible materials

Strong oxidizing agents.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Nitrogen oxides (NOx). Carbon oxides. Hydrogen chloride.

#### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** The following is based on a substantially similar formulation:

Acute Oral LD50 (rat): 1030 mg/kg

Acute Dermal LD50 (rabbit): > 4000 mg/kg Eye Irritation (rabbit): Severely irritating. Skin Irritation (rabbit): Moderate irritant. Inhalation LC50 (rat): >2.56 mg/L (4 HR) Skin Sensitization (guinea pig): Not a sensitizer

Inhalation Harmful by inhalation.

Eye contact Severely irritating to eyes.

Skin contact Based on available data, the classification criteria are not met. Substance may cause slight

skin irritation.

Ingestion Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Other ingredients	> 90 mL/kg (Rat)	-	-
Propiconazole 60207-90-1	= 1517 mg/kg (Rat)	> 4 g/kg (Rat)	= 1264 mg/m <sup>3</sup> (Rat) 4 h

#### Information on toxicological effects

**Symptoms** May cause redness and tearing of the eyes. May cause skin irritation.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT - single exposure Based on available data, the classification criteria are not met. STOT - repeated exposure Based on available data, the classification criteria are not met.

**Chronic toxicity** Avoid repeated exposure.

**Target Organ Effects** liver, kidney.

Aspiration hazard Based on available data, the classification criteria are not met.

#### Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 11,345.00 mg/kg ATEmix (dermal) 29,944.00 mg/kg

ATEmix (inhalation-dust/mist) 3.25 mg/l

# 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Very toxic to aquatic life with long lasting effects

Azoxystrobin can be persistent for several months or longer. Azoxystrobin has degradation products which have properties similar to chemicals which are known to leach through soil to ground water under certain conditions as a result of agricultural use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow may result in ground water contamination.

Azoxystrobin and propiconazole are toxic to freshwater and estuarine/marine fish; and azoxystrobin is toxic to aquatic invertebrates. Propiconazole is toxic to shrimp. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

Notify state and/or Federal authorities and Sharda USA LLC immediately if you observe any adverse environmental effects due to

use of this product.

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Azoxystrobin	-	-	Aquatic Invertebrate 96-hr EC50 =
131860-33-8			0.056 mg/L
Propiconazole	Green algae (9-day EC50) = 0.72	Rainbow Trout (96-hr EC50) = 0.83	Daphnia Magna (ChV) = 0.120 mg/L
60207-90-1	mg/L	mg/L	
		Unidentified species (96-hr EC50) =	
		0.024 mg/L	

#### Persistence and degradability

Not readily biodegradable.

#### Bioaccumulation

Not likely to bioaccumulate.

#### Other adverse effects

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT)

#### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

**Disposal of wastes** Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal

law. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on

proper disposal of waste product.

Contaminated packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations. Consult product label for additional information. Do not reuse container.

# 14. TRANSPORT INFORMATION

**DOT** Not regulated

TDG Not regulated

<u>IATA</u>

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class 9
Packing Group III
ERG Code 9L

**Special Provisions** A97, A158, A197

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Propiconazole,

Azoxystrobin), 9, III

**IMDG** 

UN/ID no UN3082

**Proper shipping name** Environmentally hazardous substance, liquid, n.o.s.

Hazard Class9Packing GroupIIIEmS-NoF-A, S-FSpecial Provisions274, 335

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Propiconazole,

Azoxystrobin), 9, III; Marine Pollutant

# 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL/NDSL Complies
EINECS/ELINCS Complies
IECSC Complies
KECL Complies
PICCS Complies
AICS Complies

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

# **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Propiconazole - 60207-90-1	1.0
SARA 311/312 Hazard Categories	
Acute health hazard	Yes

Chronic Health Hazard
No
Fire hazard
No
Sudden release of pressure hazard
No
Reactive Hazard
No

#### **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

# US State Regulations

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Other ingredients	-	-	X
Propiconazole	X	-	=

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60207-90-1

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** 83529-49

#### **EPA Statement**

This chemical is a pesticide product registered by the 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, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

#### Difference between SDS and EPA Pesticide label

WARNING: Causes substantial but temporary eye injury. Harmful if swallowed. Do not get in eyes or on clothing. Avoid contact with skin or clothing. Wear appropriate protective eyewear such as goggles, face shield, or safety glasses.

# 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA Health hazards 2 Flammability 0 Instability 0 Physical and Chemical

Properties -

HMIS Health hazards 2 Flammability 0 Physical hazards 0 Personal protection X

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Revision Date 05-Aug-2016
Revision Note

No information available

#### Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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