

KADABRA™

480 SC

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifiers

Product name: Kadabra™ 480 SC

PMRA Registration No.: 35776

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

Crop protection product, fungicide

Details of the supplier of the safety data sheet

Company: Avesta CropScience Inc.

Address: Suite 2900, Bentall 5
550 Burrard Street
Vancouver, BC, V6C 0A3

Telephone: 1-720-625-2797

Website: <https://avestacrop.com>

Emergency telephone number: 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

Serious eye damage/eye irritation	Category 2A
Skin sensitization	Category 1A

Signal word: Warning

Hazard statements: Causes serious eye irritation
May cause an allergic skin reaction

Precautionary statements - prevention

Wash face, hands and any exposed skin thoroughly after handling. Avoid breathing sprays/mists. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves, protective clothing, eye protection and 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 and attention.

If on skin: Wash with plenty of water and soap. If skin irritation or rash occurs, get medical advice and attention. Take off contaminated clothing and wash it before reuse.

Precautionary statements - disposal

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

Other information

May cause skin irritation in susceptible individuals. Avoid release to the environment.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name: Prothioconazole

CAS No.: 178928-70-6

Weight-%: 30-60%

Chemical name: 1,2-Propanediol

CAS No.: 57-55-6

Weight-%: 5-10%

Chemical name: Polyarylphenyl ether derivatives

CAS No.: Not applicable

Weight-%: 1-5%

Chemical name: Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts

CAS No.: 68425-94-5

Weight-%: 1-5%

Chemical name: Alcohols, C9-11-iso-, C10-rich, ethoxylated

CAS No.: 78330-20-8

Weight-%: 1-<3%

Chemical name: 1,2-Benzisothiazolin-3-one

CAS No.: 2634-33-5

Weight-%: > 0.036%

SECTION 4: FIRST-AID MEASURES

General advice: Show this safety data sheet to the doctor in attendance.

Inhalation: Remove to fresh air.

Eye contact: Rinse immediately with plenty of water for at least 15 minutes, including under eyelids. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin contact: Wash with soap and water. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions, see a physician.

Ingestion: Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

Self-protection of the first aider: Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Symptoms: Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.

Effects of exposure: None known.

Note to physicians: May cause sensitization in susceptible persons. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Suitable extinguishing media: Dry chemical, CO₂, alcohol-resistant foam or water spray.

Unsuitable extinguishing media: None known based on information supplied.

Specific hazards arising from the chemical: Product is or contains a sensitizer. May cause sensitization by skin contact.

Hazardous combustion products: Carbon oxides, nitrogen oxides (NO_x), sulfur oxides.

Special protective equipment and precautions for firefighters: Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.

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

Methods for cleaning up: Dike area if needed. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. Clean contaminated surface thoroughly.

Prevention of secondary hazards: Clean contaminated objects and areas thoroughly observing environmental regulations.

SECTION 7: HANDLING AND STORAGE

Advice on safe handling: Handle in accordance with good industrial hygiene and safety practices. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory protection. Avoid contact with skin, eyes, and clothing. Remove contaminated clothing and wash before reuse.

General hygiene considerations: Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling and before breaks. Wear suitable gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls:

Showers
Eyewash stations
Ventilation systems

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

Hand protection: Wear suitable gloves.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Not normally required under typical handling conditions. If ventilation is inadequate or irritation occurs, use appropriate respiratory protection.

Environmental exposure controls: Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Form: Liquid

Odour: Slight characteristic

Odour threshold: Not applicable.

Colour: Off-white

pH value: 5.0-8.0

Relative density: 1.0790-1.0801

Melting point: No data available.

Boiling temperature: No data available.

Flash point: No data available.

Flammability: Not applicable.

Auto-ignition temperature: Not applicable

Dynamic viscosity: 133.9-214.0 mPa·s (20°C)

Liquid Density: 1.1-1.2 g/mL

SECTION 10: STABILITY AND REACTIVITY

Reactivity: None under normal use conditions.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: None under normal use.
Conditions to avoid: None under normal use conditions.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: None known based on information supplied.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation: Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact: Specific test data for the substance or mixture is not available. Causes serious eye irritation (based on components). May cause redness, itching and pain.
Skin contact: May cause sensitization by skin contact. Specific test data for the substance or mixture is not available. Causes mild skin irritation (based on components). Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Prolonged contact may cause redness and irritation.
Ingestion: Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms: Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation. Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

The following ATE values have been calculated for the mixture:
ATEmix (oral): > 5,000 mg/kg
ATEmix (dermal): > 2,000 mg/kg

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Prothioconazole 178928-70-6	> 6200 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5 mg/L (Rat) 4h
1,2-Propanediol 57-55-6	= 20 g/kg (Rat)	= 20800 mg/ kg (Rabbit)	-
1,2-Benzisothiazolin- 3-one 2634-33-5	= 1020 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

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

Skin corrosion/irritation: Classification based on data available for ingredients. May cause mild skin irritation.

Serious eye damage/eye irritation: Classification based on data available for ingredients. Causes serious eye irritation.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: No information available.

Carcinogenicity: No information available.

Reproductive toxicity: No information available.

STOT - single exposure: No information available.

STOT - repeated exposure: No information available.

Aspiration hazard: No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Toxic to aquatic organisms. Avoid release to the environment.

Aquatic ecotoxicity

Chemical name: Prothioconazole
Fish: LC50: ≤ 1 mg/L (96 h, fish species)
Crustacea: EC50: ≤ 1 mg/L (48 h, Daphnia magna)
Algae / aquatic plants: EC50: ≤ 1 mg/L (72-96 h, algae)
Toxicity to microorganisms: Not applicable
(The product has not been tested as a mixture. The information provided is based on available data for the active ingredient prothioconazole.)

Chemical name: 1,2-propanediol
Fish: LC50: > 10,000 mg/L (96 h, Oncorhynchus mykiss)
Crustacea: EC50: > 1,000 mg/L (48 h, Daphnia magna)
Algae / aquatic plants: EC50: > 10,000 mg/L (96 h, algae)
Toxicity to microorganisms: Not applicable

Bioaccumulative potential

Chemical name	Partition coefficient	Bioconcentration factor (BCF)
1,2-Propanediol	-1.07	1
1,2-Benzisothiazolin- 3-one	0.99	-

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

SECTION 14: TRANSPORTATION INFORMATION

Not regulated under TDG when shipped by ground in compliant packaging; when transported by air or sea, it may be regulated as UN3082.

TDG: Not Regulated/Non-hazardous

Shipment by ground via highway or rail is not regulated as a dangerous good as long as the packaging meets all TDG requirements. No marks, labels, placards or shipping papers apply per TDG 1.45.1, but may be used to facilitate multi-modal transport involving ICAO (IATA) or IMO.

IATA: Not regulated in quantities less than 5 litres per individual container. See IATA SP A197
UN number or ID number: UN3082
UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
IATA Technical Name: Prothioconazole
Transport hazard class(es): 9
Packing group: III
Special Provisions: A97, A158, A197
ERG Code: 9L
Description: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Prothioconazole), 9, III

IMDG: Not regulated in quantities less than 5 litre per individual container. See IMDG 2.10.2.7
UN number or ID number: UN3082
UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.
Transport hazard class(es): 9
Packing group: III
Special Provisions: 274, 335, 969
EmS-No.: F-A S-F
Description: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Prothioconazole), 9, III, Marine pollutant

SECTION 15: REGULATORY INFORMATION

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer:

Not applicable

The Stockholm Convention on Persistent Organic Pollutants:

Not applicable

The Rotterdam Convention: Not applicable

International Inventories

Contact supplier for inventory compliance status

SECTION 16: OTHER INFORMATION

This SDS summarizes our current understanding of the health and safety hazards associated with the product and provides guidance on safe handling and use in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact the company. This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR), and follows the requirements of WHMIS 2015.