

# **Safety Data Sheet**

Issue Date: 20-Jan-2023 Revision Date: 19-Jun-2024 Version 2

# 1. IDENTIFICATION

#### **Product identifier**

Product Name Soraduo A

# Other means of identification

SDS # ADAMA-345-CA

Synonyms None

**Registration Number(s)** 34155 (Pest Control Products Act)

# 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

#### Initial supplier identifier

ADAMA Agricultural Solutions Canada Ltd. 300-191 Lombard Avenue Winnipeg, Manitoba R3B 0X1 1-855-264-6262

# Emergency telephone number

**Emergency Telephone** For fire, spill and/or leak contact INFOTRAC:

1-800-535-5053 (North America) 1-352-323-3500 (International)

For medical emergencies and health/safety inquiries, contact ProPharma Group:

1-877-250-9291

# 2. HAZARDS IDENTIFICATION

<u>Emergency Overview</u> This chemical is a product registered by the Canadian Pest Control Products Act and is subject to certain labeling requirements under federal law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-PCPA registered chemicals. Please see Section 15 for additional information. This product has been classified according to Canada's Hazardous Product Regulations (WHMIS 2015).

Appearance Yellow liquid Physical state Liquid

### Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1

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#### **Hazard statements**

Harmful if swallowed Harmful if inhaled Causes skin irritation Causes serious eye irritation May cause an allergic skin reaction

#### **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 Contaminated work clothing must not be allowed out of the workplace 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

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IF ON SKIN: Wash with plenty of water and soap

Take off contaminated clothing and wash it before reuse

If skin irritation or rash occurs: Get medical advice/attention

IF INHALED: Remove person to fresh air and keep comfortable for breathing

Call a POISON CENTER or doctor if you feel unwell

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

Rinse mouth

# **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Other Information

Very toxic to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

### <u>Substance</u>

Not applicable.

### Mixture

Chemical name	CAS No	Weight-%	Hazardous Material	Date HMIRA filed and
			Information Review Act	date exemption
			registry number	granted (if applicable)
			(HMIRA registry #)	
Acetophenone	98-86-2	31-34	-	-
Prothioconazole	178928-70-6	20-26	-	-
2-Pyrrolidinone, 1-octyl-	2687-94-7	10-15	-	-

# 4. FIRST AID MEASURES

#### **Description of first aid measures**

General advice When possible, have the product container or label with you when calling a poison control

center or doctor or going for treatment.

**Eye contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Seek medical attention.

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**Skin contact** In case of contact, immediately wash skin with soap and water or water for at least 15

minutes. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get

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medical advice/attention.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Give

oxygen if breathing is difficult. If breathing has stopped, give artificial respiration. Seek

medical advice. Seek medical attention for further treatment.

**Ingestion** Rinse mouth. Drink plenty of water. Call a physician or poison control center immediately.

**Self-protection of the first aider**Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms Harmful if swallowed. Harmful if inhaled. Causes skin irritation. Causes serious eye

irritation. May cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment. Dry chemical, CO2, water spray or alcohol-resistant foam.

Unsuitable extinguishing media Not determined.

Specific hazards arising from the

chemical

No information available.

**Hazardous combustion products** Smoke, fumes or vapors, and oxides of carbon.

**Explosion Data** 

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

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear. Use personal protection equipment.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet. Isolate hazard

area. Keep unnecessary and unprotected personnel from entering.

Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the

ground or into any body of water. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained. See Section 12 for additional

Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

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# Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of spill: use dry sand to

contain the flow of material.

Methods for cleaning up Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder,

sawdust). Transfer contaminated absorbent, soil, and other materials to containers for

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disposal. For waste disposal, see section 13 of the SDS.

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

# 7. HANDLING AND STORAGE

# Precautions for safe handling

other sources of ignition (i.e., pilot lights, electric motors and static electricity). Use only with adequate ventilation. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment.

Open and handle container with care.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Protection from freezing is recommended. Keep containers tightly closed in a dry, cool and

well-ventilated place. Store locked up. Keep out of the reach of children. Keep/store only in original container and out of direct sunlight. Do not use food or drink containers for mixing or storage. Keep away from heat, sparks and open flame. Keep away from food, drink,

seeds and animal feeding stuffs. Store above 0°C.

Incompatible materials None known

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# **Exposure Limits**

Chemical name	Canada - Alberta - Occupational Exposure Limits - Ceilings	Canada - British Columbia - Occupational Exposure Limits - Ceilings	Canada - Ontario - Occupational Exposure Limits - Ceilings	Quebec
Acetophenone 98-86-2	TWA: 10 ppm TWA: 49 mg/m <sup>3</sup>	TWA: 10 ppm	TWA: 10 ppm	TWA: 10 ppm TWA: 49 mg/m <sup>3</sup>

#### Appropriate engineering controls

**Engineering controls** Please refer to the product label. Use only with adequate ventilation. Use process

enclosures, local exhaust ventilation, or other engineering controls to keep worker exposure

to airborne contaminants below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Use splash goggles or face shield when contact may occur.

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**Skin and body protection** Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of

exposure. Viton or other impervious gloves are required. Long-sleeved shirt, long pants,

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socks and shoes are suggested as the minimum work clothes requirement.

Respiratory protection Ensure adequate ventilation, especially in confined areas. Wear an appropriate

NIOSH/MSHA approved respirator if ventilation is inadequate.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not

allow into any sewer, on the ground or into any body of water. Prevent product from

entering drains.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or

smoke while using this product. Promptly remove all contaminated clothing and wash it before reuse. Wash or discard contaminated clothing. Discard contaminated leather items. Wash face, hands and any exposed skin area thoroughly after handling. Discard clothing and other absorbent materials that have been soaked or heavily contaminated with this product's concentrate. Do not reuse them. Follow the manufacturer's instructions for cleaning and maintaining PPE. If there are no such instructions for washable products, use

detergent and hot water. Keep and wash PPE separately from other clothing.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid
Appearance Yellow liquid
Color Yellow

Odor Not determined Odor Threshold Not determined

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH 6.5-7.5 (1% aqueous solution)

Melting point / freezing point No data available

Melting point / freezing point No data available Initial boiling point and boiling No data available

range

Flash point 94.4°C / 201.9°F
Evaporation Rate Not determined
Flammability (Solid, Gas) Liquid-Not applicable

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

Vapor Pressure Not determined Vapor Density No data available **Relative Density** 1.03-1.13 g/mL **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined Autoignition temperature No data available **Decomposition temperature** Not determined Kinematic viscosity 26 mm2/s **Dynamic Viscosity** Not determined Not an explosive. **Explosive properties** Oxidizing properties Not an oxidizer.

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Other information

Softening Point
Molecular weight
VOC content
Liquid Density
Bulk density
Not determined
Not determined
Not determined
Not determined
Not determined

# 10. STABILITY AND REACTIVITY

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**Reactivity** Not reactive under normal conditions.

**Chemical stability** Stable under normal conditions.

Possibility of hazardous reactions 
None under normal processing.

**Hazardous Polymerization** Hazardous polymerization does not occur.

Conditions to Avoid Heat, flames and sparks. Extreme temperatures and direct sunlight. Exposure to air or

moisture over prolonged periods. Refer to Section 7.

Incompatible materials None known.

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

# 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Eye contact** Avoid contact with eyes.

**Skin contact** Avoid contact with skin.

**Inhalation** Harmful if inhaled.

**Ingestion** Harmful if swallowed.

# Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Please see section 4 of this SDS for symptoms.

**Acute toxicity** 

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

ATEmix (oral) >300 ATEmix (dermal) 7,517.10 ATEmix (inhalation-dust/mist) 315.24

Unknown acute toxicity No information available

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Acetophenone 98-86-2	= 900 mg/kg (Rat)	= 3300 mg/kg(Rat)	> 2.130 mg/L (Rat)8 h
Prothioconazole 178928-70-6	> 6200 mg/kg (Rat)	> 2000 mg/kg(Rat)	> 5 mg/L (Rat)4 h
2-Pyrrolidinone, 1-octyl- 2687-94-7	= 2050 mg/kg(Rat)	> 4000 mg/kg(Rat)	-

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

Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Causes skin irritation.
Causes serious eye irritation.
May cause an allergic skin reaction.

Carcinogenicity

Based on the information provided, this product does not contain any carcinogens or

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potential carcinogens as listed by OSHA, IARC or NTP.

# 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to	Crustacea
			microorganisms	
Acetophenone	-	LC50: =162mg/L (96h,	EC50 = 15.5 mg/L 15 min	-
98-86-2		Pimephales promelas)		
		LC50: =155mg/L (96h,		
		Pimephales promelas)		

Persistence/Degradability No information available.

**Bioaccumulation** No information available.

### Mobility

IMDG

Chemical name	Partition coefficient
Acetophenone 98-86-2	1.65
2-Pyrrolidinone, 1-octyl- 2687-94-7	4.15

Other adverse effects No information available.

# 13. DISPOSAL CONSIDERATIONS

### **Waste Treatment Methods**

Waste from residues/unused products

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

UN3082, Environmentally hazardous substance, liquid, n.o.s. (1-Octyl-2-pyrrolidinone), 9, III

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# 14. TRANSPORT INFORMATION

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances, including 49 CFR 171.4(C)(2) and TDG 1.45.1

DOT

UN3082, Environmentally hazardous substance, liquid, n.o.s. (1-Octyl-2-pyrrolidinone), 9, III

UN3082, Environmentally hazardous substance, liquid, n.o.s. (1-Octyl-2-pyrrolidinone), 9, III

UN3082, Environmentally hazardous substance, liquid, n.o.s. (1-Octyl-2-pyrrolidinone), 9, III

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# 15. REGULATORY INFORMATION

### REGULATORY INFORMATION

### **International Regulations**

The Montreal Protocol on Not applicable

**Substances that Deplete the Ozone** 

Layer

The Stockholm Convention on

Not applicable

**Persistent Organic Pollutants** 

Not applicable

#### International Inventories

The Rotterdam Convention

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
Acetophenone	Х	Х	X	Х	Х	Х	X	X
Prothioconazole	X							
2-Pyrrolidinone, 1- octyl-	Х	Х	Х	Х	Х		Х	Х

### 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

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

NFPA Health hazards - Flammability 1 Instability - Special hazards -

HMIS Health hazards - Flammability 1 Physical hazards - Personal Protection Not

determined

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Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)
STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value
\* Skin designation

**Revision Date:** 19-Jun-2024 Revision Note: Regulatory update.

#### **Disclaimer**

The information provided in this 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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