



SAFETY DATA SHEET

The Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Cazado

Revision date 25-Nov-2025

Version 2 Supersedes Date:

11-Sep-2025

Product Code(s) HRB05095-1

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ADM.08752.H.1.A 9512679

1. Identification

Product identifier

Product Name Cazado

Other means of identification

Document ADAMA-356-CA

Synonyms Pinoxaden 100 Thiencarbazon-methyl 8.3 OD

Registration Number(s) 35344

Recommended use of the chemical and restrictions on use

Recommended use Herbicide

Restrictions on use No information available

Details of the supplier of the safety data sheet

Supplier Address

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. Hazard(s) identification

This chemical is a product registered under the Pest Control Products Act (PCPA) of Canada 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).

Classification

Skin sensitization	Category 1
Reproductive toxicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

Label elements

Signal word: Warning

Hazard statements

May cause an allergic skin reaction
Suspected of damaging fertility or the unborn child
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements - General

Keep out of reach of children

Precautionary Statements - Prevention

P203 - Obtain, read and follow all safety instructions before use
P272 - Contaminated work clothing must not be allowed out of the workplace
P260 - Do not breathe dust/fume/gas/mist/vapors/spray
P280 - Wear protective gloves/eye protection/face protection

Precautionary Statements - Response

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
P318 - If exposed or concerned get medical advice.
P319 - Get medical help if you feel unwell
P321 - Specific treatment (see supplemental first aid instructions on this label)
P333 + P317 - If skin irritation or rash occurs, get medical help
P362 + P364 - Take off contaminated clothing and wash it before reuse

Precautionary Statements - Storage

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Other information

May be harmful if swallowed. Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

Synonyms

Pinoxaden 100 Thiencarbazon-methyl 8.3 OD.

Chemical name	CAS No	Weight-%	INTERNATIONAL GHS CLASSIFICATION
Pinoxaden	243973-20-8	9-12	Repr. 2 (H361d) Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Skin Sens. 1A (H317) STOT SE 3 (H335)

			Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)
Mefenpyr diethyl	135590-91-9	4-7	Aquatic Chronic 2 (H411)
Silanamine, 1,1,1-trimethyl-N-(trimethylsilyl)-, hydrolysis products with silica	68909-20-6	2-4	STOT RE 2 (H373) (lungs; inhalation)
Thiencarbazone-methyl	317815-83-1	< 2	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)

4. First-aid measures

Description of first aid measures

General advice	First aider: Pay attention to self-protection. IF exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention immediately if symptoms occur.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary.
Ingestion	Immediate medical attention is required. Call a poison control center or doctor for treatment advice. Never give anything by mouth to an unconscious person.
Self-protection of the first aider	Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms	None known.
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Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.
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5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
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	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.
Other information	Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage

Precautions for safe handling

Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.
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Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children. Do not store below freezing or at temperatures above 40 C.
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8. Exposure controls/personal protection

Control parameters

Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Appropriate engineering controls

Engineering controls	Showers Eyewash stations Ventilation systems.
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Individual protection measures, such as personal protective equipment

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 No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product.

Information on basic physical and chemical properties

<u>Property</u>	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Appearance			
Physical state	: liquid		
Color	: light Ivory		
Odor	: characteristic		
Odor threshold	: No data available		
pH	: 3.6 - 4.6	CIPAC MT 75.3	solution (1%)
Melting point / freezing point °C	: No data available		
Boiling point / boiling range °C	: No data available		
Flash point °C	: > 100		
Evaporation rate	: No data available		
Flammability (solid, gas)	: Not applicable		
Upper/lower flammability or explosive limits	: No data available		
Vapor pressure kPa	: No data available		
Vapor density	: No data available		
Relative density	: 0.93 - 1.03	OECD 109	
Solubility(ies) mg/l	: No data available		
Partition coefficient Log Pow	:		See Section 12 for additional Ecological Information
Autoignition temperature °C	: No data available		
Decomposition temperature °C	: No data available		
Kinematic viscosity mm ² /s 40 °C	: Not applicable		
Explosive properties	: Not an explosive		
Oxidizing properties	: No data available		
Surface tension	: 32.9 mN/m		
Particle Size	: Not applicable		

Other information

Bulk density g/ml : Not applicable

10. Stability and reactivity

Reactivity

No information available.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to avoid

None known based on information supplied.

Incompatible materials

None known based on information supplied.

Hazardous decomposition products None known based on information supplied.

Information on toxicological effects**Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Oral LD50 mg/kg	: > 2000	Rat	EPA-OPPTS 870.1100	
Dermal LD50 mg/kg	: No data available			Predicted negative
Inhalation LC50 LC50	: > 5.07	Rat	OPPTS 870.1300	
Skin corrosion/irritation	: Non-irritating to the skin	Rabbit	EPA-OPPTS 870.2500	
Serious eye damage/eye irritation	: Not irritating to eyes	Rabbit	EPA-OPPTS 870.2400	
Sensitization	: Skin sensitizer	Mouse	EPA-OPPTS 870.2600	

Chronic toxicity**Germ cell mutagenicity****Chemical name**

Pinoxaden	: Not classified
Mefenpyr diethyl	: Not classified
Thiencarbazone-methyl	: Not classified

Carcinogenicity**Chemical name**

Pinoxaden	: Not Carcinogenic
Mefenpyr diethyl	: Not Carcinogenic
Thiencarbazone-methyl	: Not Carcinogenic

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

Reproductive toxicity**Chemical name**

Pinoxaden	: H361d - Suspected of damaging the unborn child
Mefenpyr diethyl	: Not toxic for the reproductive system
Thiencarbazone-methyl	: Not toxic for the reproductive system

STOT - Single Exposure**Chemical name**

Pinoxaden	: H335 - May cause respiratory irritation
Mefenpyr diethyl	: No data available
Thiencarbazone-methyl	: Not classified

STOT - Repeated Exposure**Chemical name**

Pinoxaden	: Not classified
Mefenpyr diethyl	: No data available
Thiencarbazone-methyl	: Not classified

Aspiration hazard**Chemical name**

Pinoxaden	: No data available
Mefenpyr diethyl	: No data available
Thiencarbazone-methyl	: Not classified

Ecotoxicity

Aquatic toxicity**Acute toxicity**

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish 96-hour LC50 mg/l	: No data available			
Crustacea 48-hour EC50 mg/l	: No data available			
Algae 72-hour EC50 mg/l	: No data available			
Other plants EC50 mg/l	: No data available			

Chronic aquatic toxicity

	<u>Values</u>	<u>Species</u>	<u>Method</u>	<u>Remarks</u>
Fish NOEC mg/l	: No data available			
Crustacea NOEC mg/l	: No data available			
Algae NOEC mg/l	: No data available			
Other plants NOEC mg/l	: No data available			

Terrestrial Toxicity**Birds Oral LD50 mg/kg**

Chemical name				
Pinoxaden	: >2250	Bobwhite quail	EPA-OPPTS 850.2100	
Mefenpyr diethyl	: > 2000	Japanese quail		
Thiencarbazone-methyl	: > 2000	Colinus virginianus		

Bees Oral LD50 µg/bee

Chemical name				
Pinoxaden	: > 200	Apis mellifera	OECD 213	
Mefenpyr diethyl	: > 900			
Thiencarbazone-methyl	: > 199		OECD 213	

Abiotic Degradation**Water DT50 days**

Chemical name				
Pinoxaden	: 14.9d		OECD 111	pH 7, 20 ° C
Mefenpyr diethyl	: ----			No data available
Thiencarbazone-methyl	: 26.2		EPA-FIFRA 162-4	

Soil DT50 days

Chemical name				
Pinoxaden	: < 1d - 2.3d			
Mefenpyr diethyl	: < 10			
Thiencarbazone-methyl	: 15.5		OECD 307	

Biodegradation

Chemical name				
Pinoxaden	: Not readily biodegradable			
Mefenpyr diethyl	: No data available			
Thiencarbazone-methyl	: Not readily biodegradable		OECD 301 F	

Log Pow

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Chemical name			
Pinoxaden	: 3.2	EEC A.10	
Mefenpyr diethyl	: 3.83	OECD 107	
Thiencarbazone-methyl	: -1.98	OECD 107	pH 7

Bioconcentration factor (BCF)

Chemical name				
Pinoxaden	: ----			No data available
Mefenpyr diethyl	: ----			No data available
Thiencarbazone-methyl	: ----			Low bioaccumulation potential

Adsorption/Desorption

	<u>Values</u>	<u>Method</u>	<u>Remarks</u>
Chemical name			

Pinoxaden	: ---		No data available
Mefenpyr diethyl	: ---		No data available
Thiocarbazono-methyl	: 100	OECD 106	KOC

13. Disposal considerations

Waste treatment 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.

14. Transport information

TDG

UN/ID no	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Pinoxaden)
Hazard class	9
Packing group	III
Special Provisions	16, 99
Marine pollutant	Pinoxaden.
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s.
Note	Section 1.45.1 of the TDG Regulation provides an exemption from documentation and safety marks for this product when transported by road or railway vehicle in non-bulk containers.

DOT

UN/ID no	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Pinoxaden)
Hazard class	9
Packing group	III
Special Provisions	8, 146, 173, 335, 441, IB3, T4, TP1, TP29
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Pinoxaden), 9, III, Marine pollutant
Emergency Response Guide Number	171

IATA

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Pinoxaden)
Transport hazard class(es)	9
Packing group	III
ERG Code	9L
Special Provisions	A97, A158, A197, A215
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Pinoxaden), 9, III

IMDG

UN number	UN3082
UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (Pinoxaden)
Hazard Class	9
Packing group	III
EmS-No	F-A, S-F
Special Provisions	274, 335, 969
Marine pollutant	P
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Pinoxaden), 9, III, Marine

pollutant



15. Regulatory information

The laws, regulations and standards listed below have requirements on the management of this product:

International Regulations

International Inventories

TSCA	Contact supplier for inventory compliance status.
DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AICS	Contact supplier for inventory compliance status.

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

Registration Number Pest Control Product Reg. No. 35344

Pest Control Product Statement This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. Read the label before using or handling the pest control product. These label requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label:

Difference between SDS and product label

	PCPA Product Label	GHS SDS
Signal word	NA	Warning
Skin sensitization	Potential skin sensitizer	Skin sensitizer
Reproductive toxicity	NA	Suspected of damaging fertility or the unborn child
STOT - repeated exposure	NA	May cause damage to organs through prolonged or repeated exposure

16. Other information

NFPA	Health hazards 2	Flammability 1	Instability 0	Physical and chemical properties -
HMIS				

Health hazards 2 * Flammability 1 Physical hazards 0 Personal protection X

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision date 25-Nov-2025

Revision Note No information available.

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