

Safety Data Sheet

Issue Date: 23-Jan-2012 Revision Date: 20-Jan-2023 Version 1

1. IDENTIFICATION

Product identifier

Product Name Zivata

Other means of identification

SDS # ADAMA-347-CA

Synonyms None

Registration Number(s) 32427 (Pest Control Products Act)

UN/ID No UN3352

Recommended use of the chemical and restrictions on use

Recommended Use Pesticide

Details of the supplier of the safety data sheet

Manufacturer 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. HAZARDS IDENTIFICATION

Emergency Overview 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 Light yellow liquid Physical state Liquid Odour Mild organic

Classification

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 2
Carcinogenicity	Category 1B

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Label elements

Signal word Danger

Hazard statements

Harmful if swallowed Fatal if inhaled May cause cancer



Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not eat, drink or smoke when using this product Do not breathe dust/fume/gas/mist/vapours/spray Use only outdoors or in a well-ventilated area Wear respiratory protection

Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

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

Immediately call a POISON CENTRE or doctor

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

Rinse mouth

Precautionary Statements - Storage

Store locked up

Store in a well-ventilated place. Keep container tightly closed

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 #)	
Cyhalothrin, lambda-	91465-08-6	12.5-13.78	-	-
2-Ethylhexanol	104-76-7	1.5-1.67	-	-

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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.

Eve contactRinse immediately with plenty of water, also under the evelids, for at least 15 minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate

medical attention/advice.

Skin contactTake off immediately all contaminated clothing. Drench affected area with water for at least

15 minutes. If skin irritation occurs: Get medical advice/ attention. Effects may be reduced

by applying an oil-based cream.

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, call 911, give artificial respiration.

Seek immediate medical attention/advice.

Immediately call a poison control center or doctor/physician. DO NOT induce vomiting. If

conscious, drink 8-10 oz. of water promptly. Never give anything by mouth to an

unconscious person. Obtain medical attention. Do not induce vomiting unless directed by

medical personnel.

Most important symptoms and effects, both acute and delayed

Symptoms Contact with skin can cause irritation, (minor itching, burning and/or redness), tingling.

Indication of any immediate medical attention and special treatment needed

5. FIREFIGHTING MEASURES

Suitable Extinguishing Media Foam. Dry chemical. Water spray (fog). Foam or dry chemical systems are preferred to

prevent environmental damage from excessive water runoff.

Unsuitable extinguishing media Not determined.

Specific hazards arising from the

chemical

Product is not flammable.

Hazardous combustion products During a fire, irritating and highly toxic gases may be generated by thermal decomposition

or combustion.

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 EXPOSURE CONTROLS/PERSONAL

PROTECTION of this safety data sheet. Isolate hazard area. Keep unnecessary and

unprotected personnel from entering.

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Environmental precautions

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12 ECOLOGICAL INFORMATION. See Section 13 DISPOSAL

CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Stop spill at source, dike area of spill to

prevent spreading.

Methods for cleaning up For small spills, absorb with sand, clay, or other inert absorbent. Place in appropriate

containers for disposal. For large spills: recover free product. Dike for later disposal. Absorb with inert material, and then place in suitable container for chemical waste. Wash spill area with a strong detergent and water solution; rinse with water, but minimize water use during clean-up. Do not flush to sewer. Pick up and transfer to properly labeled containers.

Prevention of secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations.

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. Use personal protection recommended in Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Keep containers closed when not in use. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use only outdoors or in a well-ventilated area. Wash face, hands and any exposed skin thoroughly after handling.

Do not eat, drink or smoke when using this product.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of **Storage Conditions**

the reach of children. Store away from incompatible materials. Keep/store only in original

container. Store locked up. Store at ambient conditions. Store above 0°C.

Incompatible materials None known

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.

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 and face shield when eye contact may occur.

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 sleeve shirt, trousers, and

safety shoes.

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

NIOSH/MSHA approved respirator if ventilation is inadequate.

General hygiene considerations Discard clothing and other absorbent materials that have been drenched or heavily

contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Wash at the end of each work shift and before eating, smoking or using the toilet. Promptly remove clothing that becomes contaminated. Discard contaminated leather articles. Launder or

discard contaminated clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Light yellow liquid
Colour Light yellow
Odour Mild organic
Odour Threshold Not determined

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

pH 4.8

Melting point / freezing pointNo data availableInitial boiling point and boilingNo data available

range

Flash point > 110 °C / 230 °F
Evaporation Rate Not determined
Flammability (Solid, Gas) Liquid-not applicable

Flammability Limit in Air

Upper flammability or explosive Not applicable

limits

Lower flammability or explosive Not applicable

limits

Vapour Pressure Not determined **Vapour Density** No data available **Relative Density** Not determined **Water Solubility** Not determined Solubility in other solvents Not determined **Partition Coefficient** Not determined **Autoignition temperature** No data available Hyphen Not determined **Kinematic Viscosity** Not determined

Dynamic Viscosity 12.0 centipoise @ 23°C; 7.63

centipoise @ 39°C

Explosive properties

Oxidising properties

Not determined.

Other information

Softening Point
Molecular weight
VOC content
Liquid Density
Bulk density
Not determined
No data available
Not determined
0.94 q/ml

10. STABILITY AND REACTIVITY

Reactivity Not reactive under normal conditions.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions
None under normal processing.

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Hazardous Polymerisation Not known to occur.

Conditions to Avoid Contact with incompatible materials. Keep out of reach of children. Excessive heat and

freezing temperature. Open flames. See Section 7 HANDLING AND STORAGE.

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Incompatible materials None known.

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

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye contact Avoid contact with eyes.

Skin contact May be harmful in contact with skin.

Inhalation Fatal if inhaled. (based on components).

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) 307.00 ATEmix (dermal) 3,137.90 ATEmix (inhalation-dust/mist) 0.056 ATEmix (inhalation-vapour) 1.4807

Unknown acute toxicity No information available

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Methyl oleate 112-62-9	> 2000 mg/kg (Rat)	> 5000 mg/kg(Rabbit)	-	
Cyhalothrin, lambda- 91465-08-6	= 56 mg/kg(Rat)	= 632 mg/kg (Rat)	-	
2-Ethylhexanol 104-76-7	= 3730 mg/kg(Rat)	= 1980 mg/kg(Rabbit)	> 227 ppm (Rat) 6 h	

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

Carcinogenicity May cause cancer.

Chemical name	ACGIH	IARC	NTP	OSHA
Cyhalothrin, lambda- 91465-08-6	-	Group 2A	-	X

Legend

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labour)

X - Present

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12. ECOLOGICAL INFORMATION

Marine Pollutant Yes.

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
2-Ethylhexanol 104-76-7	EC50: =11.5mg/L (72h, Desmodesmus subspicatus)	LC50: 32 - 37mg/L (96h, Oncorhynchus mykiss) LC50: >7.5mg/L (96h, Oncorhynchus mykiss) LC50: 27 - 29.5mg/L (96h, Pimephales promelas) LC50: =29.7mg/L (96h, Pimephales promelas) LC50: 10.0 - 33.0mg/L (96h, Lepomis macrochirus)	-	EC50: =39mg/L (48h, Daphnia magna)

Persistence/Degradability No information available.

Bioaccumulation No information available.

Mobility

Chemical name	Partition coefficient		
2-Ethylhexanol	2.9		
104-76-7			

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste from residues/unused

products

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

with local regulations.

Contaminated packaging Do not reuse empty containers.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances

DOT

UN3352

Proper Shipping Name Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin)

Transport hazard class(es) 6.1
Packing Group III
Marine Pollutant Yes.

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TDG

UN3352

Proper Shipping Name Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin)

Transport hazard class(es) 6.1
Packing Group III
Marine Pollutant Yes.

MEX

UN/ID No UN3352

Proper Shipping Name Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin)

Transport hazard class(es) 6.1
Packing Group III

IATA

UN number or ID number UN3352

Proper Shipping Name Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin)

Transport hazard class(es) 6.1
Packing group III

IMDG

UN number or ID number UN3352

Proper Shipping Name Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin)

Transport hazard class(es) 6.1
Packing Group III
Marine Pollutant Yes

15. REGULATORY INFORMATION

REGULATORY INFORMATION

International Regulations

Ozone-depleting substances (ODS) Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AIIC
Cyhalothrin, Iambda-	Х		X		X	Х	X	
2-Ethylhexanol	Х	X	X	Х	X	Х	X	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

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

NFPA Health hazards 4 Flammability 1 Instability 0 Special hazards - HMIS Health hazards 3 Flammability 1 Physical hazards 0 Personal Protection Not

determined

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: 20-Jan-2023

Revision Note: New format.

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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