

#### Issue Date: 28-Nov-2018

Version 1

# **1. IDENTIFICATION**

<u>Product identifier</u> Product Name	Silencer 120 EC	
Other means of identification SDS #	ADAMA-276	
Registration Number(s) UN/ID No	Pest Control Product Reg. No. 29052 UN3352	
<u>Recommended use of the chemical</u> Recommended Use	and restrictions on 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	

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	Lightly yellow Transparent	Phys
liauid		

Physical state Liquid

Odor Characteristic aromatic Solvent

# **Classification**

Acute toxicity - Oral	Category 3
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin sensitization	Category 1
Carcinogenicity	Category 1B
Aspiration toxicity	Category 1

Signal Word Danger

# Hazard statements

Toxic if swallowed Harmful if inhaled May cause an allergic skin reaction May cause cancer May be fatal if swallowed and enters airways



#### Precautionary Statements - Prevention

Obtain special instructions before use Do not handle until all safety precautions have been read and understood Use personal protective equipment as required Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Do not eat, drink or smoke when using this product Contaminated work clothing must not be allowed out of the workplace

#### Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention IF ON SKIN: Gently wash with plenty of soap and water If skin irritation or rash occurs: Get medical advice/attention Wash contaminated clothing before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Immediately call a poison center or doctor/physician IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting 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 hazards

Very toxic to aquatic life with long lasting effects

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No	Weight-%
Cyhalothrin, lambda-	91465-08-6	12.7
Naphtha (petroleum), heavy aromatic	64742-94-5	78.9
Naphthalene	91-20-3	7.89

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

#### 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	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	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. Get medical attention if necessary.
Inhalation	If inhaled remove to fresh air. Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial respiration. Immediately call a physician.
Ingestion	Immediately call a poison center or doctor/physician. Never give anything by mouth to an unconscious person. Obtain medical attention. Do not induce vomiting unless directed by medical personnel.
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#### Most important symptoms and effects, both acute and delayed

Symptoms May cause nose and throat irritation, with possible central nervous system effects. In high concentrations, vapors and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea. May cause gastrointestinal irritation, nausea, diarrhea, and vomiting. Liquid ingestion may result in vomiting; aspiration of liquid into the lungs must be avoided as liquid contact with the lungs can result in chemical pneumonitis and pulmonary edema/hemorrhage. May cause mild skin and eye irritation.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

# **5. FIRE-FIGHTING MEASURES**

#### Suitable Extinguishing Media

Dry chemical. Foam. Carbon dioxide (CO2).

#### Unsuitable Extinguishing Media Not determined.

#### Specific Hazards Arising from the Chemical

Combustible liquid.

#### Hazardous combustion products chloride compounds.

#### 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. Evacuate area of unprotected personnel. Remain upwind of fire to avoid hazardous vapors and decomposition products. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

# 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

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.
Methods for Clean-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. Flush spill area with water, collect rinse water in containers for proper disposal.

# 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. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing vapors or mists. Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Do not eat, drink or smoke when using this product.
	smoking. Do not eat, drink of smoke when using this product.

#### Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed and store in a cool, dry and well-ventilated place. Keep out of the reach of children. Store away from incompatible materials. Protect from excessive heat. Store locked up.

#### Incompatible Materials

None known.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Naphthalene	TWA: 10 ppm	TWA: 10 ppm	IDLH: 250 ppm
91-20-3	S*	TWA: 50 mg/m <sup>3</sup>	TWA: 10 ppm
		(vacated) TWA: 10 ppm	TWA: 50 mg/m <sup>3</sup>
		(vacated) TWA: 50 mg/m <sup>3</sup>	STEL: 15 ppm
		(vacated) STEL: 15 ppm	STEL: 75 mg/m <sup>3</sup>
		(vacated) STEL: 75 mg/m <sup>3</sup>	-

### Appropriate engineering controls

Engineering Controls	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.
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.

# Respiratory ProtectionEnsure adequate ventilation, especially in confined areas. Wear an appropriate<br/>NIOSH/MSHA approved respirator if ventilation is inadequate.General Hygiene ConsiderationsWash hands before eating, drinking, smoking and using the toilet. Remove contaminated<br/>clothing promptly and wash thoroughly before reused. Discard clothing and other absorbent<br/>materials that have been drenched or heavily contaminated with this product's concentrate.<br/>Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If<br/>no such instructions for washables, use detergent and hot water. Keep and wash PPE<br/>separately from other laundry.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical state Appearance	Liquid Lightly yellow Transparent liquid	Odor	Characteristic aromatic Solvent
Color	Clear, light yellow	Odor Threshold	Not determined
Color Property pH Melting point / freezing point Boiling point / boiling range Flash point Evaporation Rate Flammability (Solid, Gas) Flammability Limit in Air Upper flammability or explosive limits Lower flammability or explosive limits Vapor Pressure Vapor Density Relative Density Water Solubility Solubility in other solvents Partition Coefficient Autoignition temperature Decomposition temperature Kinematic viscosity	Clear, light yellow Values 6.5-7.5 Not applicable Not determined 62°C / 144°F Not determined Liquid-not applicable Not available Not available Not determined Not determined	Odor Threshold <u>Remarks • Method</u>	Not determined
Dynamic Viscosity Explosive Properties Oxidizing Properties	Not determined Not determined Not determined		

# **10. STABILITY AND REACTIVITY**

#### **Reactivity**

Not reactive under normal conditions.

#### **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization

Not known to occur.

#### **Conditions to Avoid**

Elevated temperatures.

#### Incompatible materials None known.

#### Hazardous decomposition products

May emit toxic fumes under fire conditions.

# **11. TOXICOLOGICAL INFORMATION**

#### Information on likely routes of exposure

Eye Contact	Avoid contact with eyes.
Skin Contact	May be harmful in contact with skin.
Inhalation	Harmful by inhalation.
Ingestion	Toxic if swallowed.

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Cyhalothrin, lambda- 91465-08-6	= 56 mg/kg (Rat)	= 632 mg/kg (Rat)	-
Naphtha (petroleum), heavy aromatic 64742-94-5	> 5000 mg/kg (Rat)	>2 mL/kg (Rabbit)	> 590 mg/m³ (Rat)4 h
Naphthalene 91-20-3	= 1110 mg/kg (Rat)= 490 mg/kg ( Rat)	= 1120 mg/kg (Rabbit)> 20 g/kg ( Rabbit)	> 340 mg/m³ (Rat)1 h

#### Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Please see section 4 of this SDS for symptoms.

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

#### Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

Chemical name	ACGIH	IARC	NTP	OSHA
Cyhalothrin, lambda- 91465-08-6		Group 2A		Х
Naphthalene 91-20-3	A3	Group 2B	Reasonably Anticipated	Х

#### **LEGEND**

IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans Group 2B - Possibly Carcinogenic to Humans NTP (National Toxicology Program) Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen OSHA (Occupational Safety and Health Administration of the US Department of Labor) X - Present

#### Aspiration hazard

May be fatal if swallowed and enters airways.

Numerical measures of toxicity Acute Oral LD50 (Rat): 98.11 mg/kg Acute Dermal LD50 (Rabbit): >2,000 mg/kg Acute Inhalation LC50 (Rat): 1.83 mg/kg Eye Irritation: Mildly irritating Dermal Irritation: Slightly irritating Dermal Sensitization: a skin sensitizer

# **12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Very toxic to aquatic life with long lasting effects. This pesticide is extremely toxic to fish and aquatic organisms and toxic to wildlife. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wash water This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

#### Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Naphtha (petroleum), heavy aromatic	2.5: 72 h Skeletonema costatum mg/L EC50	1740: 96 h Lepomis macrochirus mg/L LC50 static 41: 96 h	0.95: 48 h Daphnia magna mg/L EC50
64742-94-5		Pimephales promelas mg/L LC50 2.34: 96 h Oncorhynchus mykiss	
		mg/L LC50 19: 96 h Pimephales	
		promelas mg/L LC50 static 45: 96 h	
		Pimephales promelas mg/L LC50	
		flow-through	
Naphthalene	0.4: 72 h Skeletonema costatum	1.99: 96 h Pimephales promelas	1.09 - 3.4: 48 h Daphnia magna
91-20-3	mg/L EC50	mg/L LC50 static 31.0265: 96 h	mg/L EC50 Static 2.16: 48 h
		Lepomis macrochirus mg/L LC50	Daphnia magna mg/L LC50 1.96: 48
		static 1.6: 96 h Oncorhynchus	h Daphnia magna mg/L EC50 Flow
		mykiss mg/L LC50 flow-through	through
		0.91 - 2.82: 96 h Oncorhynchus	
		mykiss mg/L LC50 static 5.74 - 6.44:	
		96 h Pimephales promelas mg/L	
		LC50 flow-through	

# Persistence/Degradability

Not determined.

#### **Bioaccumulation**

There is no data for this product.

#### **Mobility**

Chemical name	Partition coefficient
Naphtha (petroleum), heavy aromatic 64742-94-5	2.9 - 6.1
Naphthalene 91-20-3	3.6

#### Other Adverse Effects

Not determined

# **13. DISPOSAL CONSIDERATIONS**

#### Waste Treatment Methods

Disposal of Wastes	END USERS MUST DISPOSE OF ANY UNUSED PRODUCT AS PER THE LABEL RECOMMENDATIONS. Canadian manufacturers should dispose of unwanted active ingredients and containers in accordance with municipal or provincial regulations. For additions details and clean up of spills, contact the manufacturer or the provincial regulatory agency.
Contaminated Packaging	Disposal should be in accordance with applicable regional, national and local laws and regulations.

# **14. TRANSPORT INFORMATION**

DOT UN/ID No Proper Shipping Name Hazard class Packing Group	UN3352 Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin) 6.1 III
Marine Pollutant	Yes.
IATA UN number Proper Shipping Name Transport hazard class(es) Packing Group Marine Pollutant	UN3352 Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin) 6.1 III Yes
IMDG UN number Proper Shipping Name Transport hazard class(es) Packing Group Marine Pollutant	UN3352 Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin) 6.1 III Yes
<u>TDG</u> UN/ID No Proper Shipping Name Hazard class Packing Group Marine Pollutant	UN3352 Pyrethroid pesticide, liquid, toxic (lambda-cyhalothrin) 6.1 III Yes

# 15. REGULATORY INFORMATION

#### International Inventories

Chemical name	TSCA	DSL/NDSL	EINECS/E LINCS	ENCS	IECSC	KECL	PICCS	AICS
Cyhalothrin, lambda-	Х		Х		Х	Х	Х	Х
Naphtha (petroleum), heavy aromatic	Х	Х	Х		Х	Х	Х	Х
Naphthalene	Х	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

#### US Federal Regulations

CERCLA Does not apply

SARA 313 Not applicable

#### **CWA (Clean Water Act)** Does not apply

### US State Regulations

### **California Proposition 65**

Not applicable.

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

Not applicable

#### Pesticide Registration Number

Pest Control Product Reg. No. 29052

#### **Product Statement**

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. Read the approved label, authorized under the Pest Control Products Act, prior to using or handling the pest control product. Following is the hazard information as required on the pesticide label:

#### Pesticide Label

DANGER POISON Eve irritant Potential skin sensitizer

#### Difference between SDS and pesticide label

	РСРА	SDS
Signal Word	Danger	Danger
Acute toxicity - Oral	N/A	Toxic if swallowed
Acute toxicity - Inhalation (Dusts/Mists)	N/A	Harmful if inhaled
Serious eye damage/eye irritation	Eye irritant	Causes serious eye irritation
Skin sensitization	Potential skin sensitizer	May cause an allergic skin reaction
Carcinogenicity	N/A	May cause cancer
Aspiration toxicity	N/A	May be fatal if swallowed and enters airways

# **16. OTHER INFORMATION**

<u>NFPA</u> HMIS	Health Hazards 2 Health Hazards 2	Flammability 1 Flammability 1	Instability 0 Physical hazards 0	<b>Special Hazards</b> Not determined <b>Personal Protection</b> Not determined
Issue Date: Revision Date: Revision Note:	28-Nov-2018 28-Nov-2018 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**