



# Safety Data Sheet (SDS)

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Version 3

## 1. IDENTIFICATION

### Product identifier

**Product Name** Squadron

### Other means of identification

**SDS #** ADAMA-271

**Registration Number(s)** 32081 (*Pest Control Products Act*)

### Recommended use of the chemical and restrictions on use

**Recommended Use** Herbicide

### Details of the supplier of the safety data sheet

#### **Registrant**

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 IDENTIFICATION

This chemical is a pest control product registered by Health Canada's Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act (PCPA). 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** Brown granules

**Physical state** Solid

**Odor** Faint odor

### Hazard Classification(s)

Acute toxicity - Oral	Category 4
Reproductive toxicity	Category 1B

### Hazard Pictogram(s)



### Signal Word

**Danger**

### Hazard statements

H302 - Harmful if swallowed  
H313 - May be harmful in contact with skin  
H360 - May damage fertility or the unborn child

**Precautionary Statements - Prevention**

P201 - Obtain special instructions before use

P202 - Do not handle until all safety precautions have been read and understood

P281 - Use personal protective equipment as required

P265 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

P308+P313 - If exposed or concerned: Get medical advice/attention

P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P330 - Rinse mouth

**Precautionary Statements - Storage**

P405 - Store locked up

**Precautionary Statements - Disposal**

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

**Other hazards**

H410 - Very toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Metribuzin	21087-64-9	72.8-77.3
Sodium Tetraborate Decahydrate	1303-96-4	6.7-7.4

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

**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. If exposed or concerned: Get medical advice/attention.

**Eye Contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

**Skin Contact**

Take off contaminated clothing. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a poison control center or doctor for treatment advice.

**Inhalation**

Give oxygen if breathing is difficult. If breathing has stopped, call 911, give artificial respiration. Call a poison control center or doctor for further treatment advice.

**Ingestion**

Immediately call a poison center or doctor/physician. Do not induce vomiting, unless directed by medical personnel. Never give anything by mouth to an unconscious person. If conscious, give 1 glass of water to dilute.

**Most important symptoms and effects, both acute and delayed****Symptoms**

Harmful if swallowed. Mild eye, skin, and/or respiratory irritation. Individuals with pre-existing respiratory disorders should use extra precautions when handling this product. Acute silicosis has been reported following exposure to extremely high crystalline silica exposures, particularly when the particle size of the dust is very small. May cause lung damage.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Water. Dry chemical.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

Product is not flammable. Dust may form an explosive mixture with air at high concentrations.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>).

### 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

**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** Reclaim where possible. Avoid creating dust. Vacuum or sweep up material and place in a disposal container. Wash area with soap and water. Pick up wash liquid with inert absorbent and place in a chemical waste container for disposal.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid spilling.

### 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. Keep/store only in original container. Do not contaminate water, food or feed by storage, disposal or by cleaning equipment. Store at ambient conditions. Store locked up. Do not exceed 30 day average of 100°F (37.78°C).

**Incompatible Materials** Ketones. Aldehydes. Alkaline conditions. Strong caustics.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Metribuzin 21087-64-9	TWA: 5 mg/m <sup>3</sup>	(vacated) TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>
Sodium Tetraborate Decahydrate 1303-96-4	STEL: 6 mg/m <sup>3</sup> inhalable particulate matter TWA: 2 mg/m <sup>3</sup> inhalable particulate matter	(vacated) TWA: 10 mg/m <sup>3</sup>	TWA: 5 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

Wear safety glasses with side shields (or goggles). Goggles are recommended.

#### Skin and Body Protection

Wear appropriate clothing to prevent repeated or prolonged skin contact. Wear long-sleeved shirt, long pants, and shoes plus socks. Use chemical resistant gloves, such as P.V.C., butyl-rubber, nitrile-rubber, or neoprene.

#### Respiratory Protection

NIOSH-approved respirator or mask in the absence of adequate ventilation.

#### General Hygiene Considerations

Handle in accordance with good industrial hygiene and safety practice. Wash face, hands and any exposed skin thoroughly after handling. Take off all contaminated clothing and wash it before reuse. 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state	Solid	Odor	Faint odor
Appearance	Brown granules	Odor Threshold	Not determined
Color	Brown		

#### Property

#### Values

#### Remarks • Method

pH	No data available	
Melting point / freezing point	Not determined	
Boiling point / boiling range	Not determined	
Flash point	Not applicable	
Evaporation Rate	Not applicable	
Flammability (Solid, Gas)	Not determined	
Flammability Limit in Air		
Upper flammability or explosive limits	Not applicable	
Lower flammability or explosive limits	Not applicable	
Vapor Pressure	Not determined	
Vapor Density	Not determined	
Relative Density	Not determined	
Water Solubility	Not determined	
Solubility in other solvents	Not determined	
Partition Coefficient	Not determined	
Autoignition temperature	Not applicable	
Decomposition temperature	Not determined	

<b>Kinematic viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined

**Other information**

**Liquid Density** 0.429 - 0.525 g/ml @ 20°C

## 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** Hazardous polymerization does not occur.

**Conditions to Avoid**

Keep out of reach of children. Temperatures >100°C. Store away from foodstuffs, animal feed, and incompatibles.

**Incompatible materials**

Ketones. Aldehydes. Alkaline conditions. Strong caustics.

**Hazardous decomposition products**

May emit toxic fumes under fire conditions. Carbon dioxide (CO<sub>2</sub>). Sulfur dioxide. Methyl mercaptan. Amines.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

<b>Eye Contact</b>	Avoid contact with eyes.
<b>Skin Contact</b>	May be harmful in contact with skin.
<b>Inhalation</b>	Avoid inhalation of dust.
<b>Ingestion</b>	Harmful if swallowed.

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Metribuzin 21087-64-9	= 2020 mg/kg (male Rat) = 1100 mg/kg (female Rat)	= 2000 mg/kg (female Rat) > 5000 mg/kg (male Rat) > 20 g/kg (Rabbit)	> 860 mg/m <sup>3</sup> (Rat) 4 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
Sodium Tetraborate Decahydrate 1303-96-4		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 Labor)  
X - Present

**Reproductive toxicity** May damage fertility or the unborn child.

**Numerical measures of toxicity**

**Acute Oral LD50 (Rat):** 2,365 mg/kg (male)/ 1,449 mg/kg (female)

**Acute Dermal LD50 (Rabbit):** >2,000mg/kg

**Acute Inhalation LC50 (Rat):** >4.84 mg/L (4-hr)

**Eye Irritation:** Moderately irritating.

**Dermal Irritation:** Slightly irritating.

**Dermal Sensitization:** Not a dermal sensitizer

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects. For terrestrial uses, 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 areas treated. Do not contaminate water when disposing of equipment washwaters.

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

There is no data for this product.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

## 13. DISPOSAL CONSIDERATIONS

**Waste Treatment Methods**

**Disposal of Wastes** Follow container label instructions for disposal of wastes generated during use in compliance with the product label.  
Dispose in accordance with all local, state/provincial and federal regulations.

**Contaminated Packaging** Follow advice on product label.  
Do not re-use empty containers.  
Triple rinse containers.  
Puncture container to avoid re-use.  
Consult state and local regulations regarding the proper disposal of container.

## 14. TRANSPORT INFORMATION

**DOT** Regulated only if package size is > 882 lbs. (400 Kg)  
**UN number** UN3077  
**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s. (Metribuzin)  
**Class** 9  
**Packing Group** III  
**Marine Pollutant** Yes

**IATA**  
**UN number** UN3077  
**Proper Shipping Name** Environmentally hazardous substance, solid, n.o.s. (Metribuzin)  
**Class** 9  
**Packing Group** III  
**Marine Pollutant** Yes

**IMDG**

<b>UN number</b>	UN3077
<b>Proper Shipping Name</b>	Environmentally hazardous substance, solid, n.o.s. (Metribuzin)
<b>Class</b>	9
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	Yes

**TDG**

Section 1.45.1 of the TDG Regulations provides an exemption from documentation and safety marks only for this product and only when transported by road or railway vehicle.

## 15. REGULATORY INFORMATION

**International Inventories**

Chemical name	TSCA	DSL/NDSL	EINECS/ ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Metribuzin	X		X		X	X		X
Sodium Tetraborate Decahydrate	X	X		X	X	X	X	X

**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*

There are Canada-specific environmental requirements for handling, use and disposal of this pest control product that are indicated on the product label.

**Hazardous Products Regulations Information:**

This product has been classified in accordance with the amended *Hazardous Products Act* (HPA) and the Hazard Criteria of the *Hazardous Products Regulations* (HPR), and the SDS contains all the information required by the HPR.

**Hazardous Products Act Information:**

Pest control products, as defined in subsection 2(1) of the *Pest Control Products Act* (PCPA), are excluded from the application of the *Hazardous Products Act* (that is, pest control products are exempt from the supplier labelling and SDS requirements of the *Hazardous Products Act* and *Regulations*). This product has voluntarily been classified according to the WHMIS 2015 standard.

**Pest Control Products Act Registration Number:** 32081**Product Statement**

This chemical is a pest control product registered and regulated by Health Canada's Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These 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:

**Pesticide Label**

CAUTION POISON

READ THE LABEL AND LEAFLET BEFORE USING.

KEEP OUT OF REACH OF CHILDREN

**Difference between SDS and pesticide label**

Hazardous Information Elements	PCPA	SDS
Signal Word(s)	Caution Poison	Danger
Pictogram(s)		
Hazard statement(s)		
Acute toxicity - Oral	Harmful if swallowed	H302 - Harmful if swallowed
Acute toxicity - Dermal	Harmful if absorbed through skin	H313 - May be harmful in contact with skin
Acute toxicity - Inhalation	Harmful if inhaled	Avoid inhalation of dust.
Reproductive toxicity	N/A	H360 - May damage fertility or the unborn child

**16. OTHER INFORMATION****NFPA****Health Hazards**

1

**Flammability**

3

**Instability**

1

**Special Hazards**

Not determined

**HMIS****Health Hazards**

Not determined

**Flammability**

Not determined

**Physical hazards**

Not determined

**Personal Protection**

Not determined

**Issue Date:**

01-Dec-2019

**Revision Date:**

01-Dec-2019

**Revision Note:**

Section 1-3, 11, 14-16 revisions and corrections

**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**