1. IDENTIFICATION

Product identifier
Product Name
Bison 400L

Other means of identification
SDS # ADAMA-262
Registration Number(s) Pest Control Product Reg. No. 29256
UN/ID No UN3082

Recommended use of the chemical and restrictions on use
Recommended Use Herbicide.

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 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 White homogenous liquid
Physical state Liquid
Odor Characteristic

Classification
Acute toxicity - Inhalation (Dusts/Mists) Category 4
Carcinogenicity Category 2

Signal Word Warning

Hazard statements
Harmful if inhaled
Suspected of causing cancer
Precautionary Statements - Prevention
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

Precautionary Statements - Response
If exposed or concerned: Get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a poison center or doctor/physician if you feel unwell

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other hazards
Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tralkoxydim</td>
<td>87820-88-0</td>
<td>35.7</td>
</tr>
</tbody>
</table>

**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
In case of poisoning, contact a physician or a poison control center immediately. Remove the patient from contaminated area. Keep the patient at rest. Take container, label or product name and pest control product registration number with you when seeking medical attention.

Eye Contact
Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Skin Contact
Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Ingestion
Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not 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
Overexposure by inhalation may cause CNS depression- drowsiness, dizziness, confusion or loss of coordination.
Indication of any immediate medical attention and special treatment needed

Notes to Physician Symptomatic and supportive therapy as indicated: There is not specific antidote. Symptoms are likely to be those of central nervous system depression. Avoid respiratory depressants unless otherwise indicated. Following ingestion, absorbents such as activate charcoal may be of value. For larger quantities, gastric lavage may be effective, if performed within 4 hours of ingestion. However, the need for gastric lavage should be considered carefully, in view of the low acute oral toxicity of this material; if may be better to observe the patient and employ general supportive measures only.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical No specific hazard known.

Protective equipment and precautions for firefighters In the event of fire, wear self-contained breathing apparatus. In the event of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Use only with adequate ventilation.

For Emergency Responders Use personal protection recommended in Section 8.

Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

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 Soak up with inert absorbent material. Clean contaminated surface thoroughly. Place in appropriate containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Prevent access by unauthorized personnel. Avoid ingestion, contact with skin and eyes and inhalation of airborne dust. Wear protective clothing when handling containers (cap, safety spectacles, overalls and work boots). Operations with significant exposure to trialkoxydim technical will in addition require PVC or nitrile rubber gloves.

Conditions for safe storage, including any incompatibilities

Storage Conditions Store in sealed containers in a secure, dry, ventilated area away from frost, direct sunlight and other sources of heat and ignition. Do not contaminate water, food or feed by storage.

Incompatible Materials None known based on information supplied.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines
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
Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Tight sealing safety goggles.

Skin and Body Protection
Gloves made of plastic or rubber. Suitable protective clothing.

Respiratory Protection
Use only with adequate ventilation.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>White homogenous liquid</td>
<td>Odor</td>
<td>Characteristic</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td>Odor Threshold</td>
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<td>pH</td>
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<tr>
<td>Melting point / freezing point</td>
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<tr>
<td>Boiling point / boiling range</td>
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<tr>
<td>Flash point</td>
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<tr>
<td>Evaporation Rate</td>
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<tr>
<td>Flammability (Solid, Gas)</td>
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<td>Flammability Limit in Air</td>
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<td>Upper flammability or explosive limits</td>
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<td>Lower flammability or explosive limits</td>
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<tr>
<td>Vapor Pressure</td>
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<td>Vapor Density</td>
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<td>Relative Density</td>
<td>1.105-1.135</td>
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<td>Water Solubility</td>
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<tr>
<td>Solubility in other solvents</td>
<td>6.7</td>
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<tr>
<td>Partition Coefficient</td>
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<tr>
<td>Autoignition temperature</td>
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<td>Decomposition temperature</td>
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<td>Kinematic viscosity</td>
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<td>Dynamic Viscosity</td>
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<td>Explosive Properties</td>
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<tr>
<td>Oxidizing Properties</td>
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</table>

10. STABILITY AND REACTIVITY

Reactivity
Not available.

Chemical stability
Stable under normal conditions.
Possibility of hazardous reactions
None under normal processing.

Conditions to Avoid
Heat, flames and sparks.

Incompatible materials
None known based on information supplied.

Hazardous decomposition products
None under normal use conditions.

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  Do not ingest.

Component Information

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tralkoxydim 87820-88-0</td>
<td>= 934 mg/kg (Rat)</td>
<td>&gt; 2000 mg/kg (Rat)</td>
<td>&gt; 3.5 mg/L (Rat) 4 h</td>
</tr>
</tbody>
</table>

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  Suspected of causing cancer.

Numerical measures of toxicity

Acute Oral LD50 (Rat): >2,000 mg/kg
Acute Dermal LD50 (Rabbit): >5,000 mg/kg
Acute Inhalation LC50 (Rat): >2.55 mg/kg
Eye Irritation: Minimally irritating
Dermal Irritation: Slightly irritating
Dermal Sensitization: Not a skin sensitizer

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life with long lasting effects. Do not discharge effluent containing this active ingredient into lakes, streams, ponds, estuaries, oceans and public waters.

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
For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for cleanup of spills.

Contaminated Packaging
Canadian formulators using this product should dispose of unwanted active ingredient and containers in accordance with municipal or provincial regulations.

14. TRANSPORT INFORMATION

Note
Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT
UN/ID No
UN3082
Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s (Tralkoxydim)
Hazard class
9
Packing Group
III
Marine Pollutant
Yes.

IATA
UN number
UN3082
Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s (Tralkoxydim)
Transport hazard class(es)
9
Packing Group
III
Marine Pollutant
Yes

IMDG
UN number
UN3082
Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s (Tralkoxydim)
Transport hazard class(es)
9
Packing Group
III
Marine Pollutant
Yes

TDG
UN/ID No
UN3082
Proper Shipping Name
Environmentally hazardous substance, liquid, n.o.s (Tralkoxydim)
Hazard class
9
Packing Group
III
Special Provisions
Yes

15. REGULATORY INFORMATION
International Inventories

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>TSCA</th>
<th>DSL/NDSDL</th>
<th>EINECS/E LINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tralkoxydim</td>
<td>X</td>
<td></td>
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</tbody>
</table>

Legend:
- **TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory
- **DSL/NDSDL** - Canadian Domestic Substances List/Non-Domestic Substances List
- **EINECS/E LINCS** - 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. 29256

**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**
N/A

**Difference between SDS and pesticide label**

<table>
<thead>
<tr>
<th></th>
<th>PCPA</th>
<th>SDS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Signal Word</strong></td>
<td>N/A</td>
<td>Warning</td>
</tr>
<tr>
<td><strong>Acute toxicity- Inhalation</strong></td>
<td>N/A</td>
<td>Harmful if inhaled</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>N/A</td>
<td>Suspected of causing cancer</td>
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</table>
## 16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
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<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical hazards</th>
<th>Personal Protection</th>
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<tbody>
<tr>
<td></td>
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</table>

**Issue Date:** 05-Nov-2018  
**Revision Date:** 05-Nov-2018  
**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