

1. IDENTIFICATION

Product name: **Bison™ 400L PCP 29256**
 Chemical name of active ingredient(s): Tralkoxydim: 2-(cyclohexen-1-one, 2-[1-(ethoxyimino)propyl]-3-hydroxy-5-(2,4,6-trimethylphenyl)-(9CI)
 Manufacturer: Makhteshim Agan of North America, Inc.
 4515 Falls of Neuse Road, Suite 300
 Raleigh, NC 27609
 Phone: 919-256-9300
 For fire, spill, and/or leak emergencies, contact Infotrac: Phone: 1-800-535-5053
 For medical emergencies and health and safety inquiries, contact Prosar: Phone: 1-877-250-9291

2. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME | CAS NUMBER | % | ACGIH/TLV | OSHA/PEL | OTHER | NTP/IARC/OSHA (Carcinogen) |
|---------------|------------|-------|-----------|----------|-------|----------------------------|
| Tralkoxydim | 87820-88-0 | 35.7% | NE | NE | NA | NA |

NE=Not established

NA=Not applicable

3. HAZARDS IDENTIFICATIONS**PHYSICAL PROPERTIES**

Appearance: White homogenous suspension

Odor: Characteristic odor

EMERGENCY OVERVIEW: CAUTION. SKIN AND EYE IRRITANT. Harmful if swallowed. May cause skin and eye irritation. Do not get on skin or in eyes. Do not wear contact lenses when using chemicals. Do not ingest. Do not get on skin, clothing, or in eyes. Contact with eyes may be painful.

SYMPTOMS OF OVER EXPOSURE: Dust, mist or vapor irritating to eyes and respiratory tract. May cause skin and eye irritation.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES**FIRST AID**

IN CASE OF POISONING: Contact a physician or a poison control centre **IMMEDIATELY**. Take the container label or product name and Pest Control Product Registration Number with you when seeking medical attention.

IF SWALLOWED: Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin **IMMEDIATELY** with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

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

Note to physician: Treat symptomatically for ingestion and/or skin and eye contact. Symptoms are likely to be those of CNS depression. Avoid respiratory depressants unless otherwise indicated.

5. FIRE FIGHTING MEASURES

FLASH POINT: Not flammable

FLAMMABLE LIMITS: Not applicable

EXTINGUISHING MEDIA: Foam, CO₂, dry chemical

FIRE & EXPLOSION HAZARDS: During fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

FIRE-FIGHTING INSTRUCTIONS: Use positive-pressure self-contained breathing apparatus and full protective clothing. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS/LEAKS: Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. **For spills and leaks:** Contain the liquid with dikes of inert material (soil, clay, kitty litter etc.). Absorb the spill onto inert material and shovel into a sealable waste container. **On hard surfaces:** Sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand 10 minutes then absorb onto an inert material and shovel into the waste container. **On soil:** Remove the top 15 cm of soil in the spill area and replace with fresh soil. Dispose of all waste including scrub brush in accordance with provincial requirements. Contact the manufacturer and the provincial regulatory agency in case of a spill and for clean-up of spills.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING: Do not smoke, eat, or drink while using this product. Do not contaminate food, water supplies or animal feed.

PRECAUTIONS TO BE TAKEN IN STORAGE: Store in a cool, dry place, away from children, animals, food, feed or fertilizers. Keep unused product in resealed original container. Store above -5°C (23° F). Shake well before use.

STORAGE TEMPERATURE (MIN/MAX): Do not store below -5°C (23° F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND USE OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

HAND PROTECTION: Wear chemically resistant gloves (such as nitrile).

EYE PROTECTION: Wear chemical splash goggles where contact is likely.

SKIN PROTECTION: Wear coveralls, socks and chemical-resistant foot wear. For overhead exposure wear chemical-resistant headgear.

RESPIRATORY PROTECTION: This material may be a respiratory irritant and, unless ventilation is adequate, the use of approved respiratory protection is recommended. Use this material only in well-ventilated areas.

ADDITIONAL PROTECTIVE MEASURES: 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 gloves thoroughly with water before removing them during any operation. Wash hands thoroughly with soap and water after using the product and before eating, drinking or smoking.

EXPOSURE GUIDELINES: Refer to Section 2.

ENGINEERING CONTROLS: Minimize airborne concentrations.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White homogenous suspension

ODOR: Characteristic odor

FLASH POINT: Not applicable

pH: 4-6

SPECIFIC GRAVITY: 1.105-1.135 g/mL @ 20° C

VISCOSITY: 800-1400 mPa

10. STABILITY AND REACTIVITY

STABILITY: Stable under normal use and storage conditions.

MATERIALS TO AVOID: Not known.

HAZARDOUS POLYMERIZATION: Will not occur.

INSTABILITY CONDITIONS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS: During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY/IRRITATION STUDIES

| | |
|------------------------------------|-----------------------|
| Acute Oral LD50 (Rat): | > 2,000 mg/kg |
| Acute Dermal LD50 (Rat): | > 5,000 mg/kg |
| Acute Inhalation LC50 (Rat): | > 2.55 mg/L (4-hr) |
| Eye Irritation (Rabbit): | Minimally irritating. |
| Dermal Irritation (Rabbit): | Slightly irritating. |
| Dermal Sensitization (Guinea Pig): | Not a skin sensitizer |

12. ECOLOGICAL INFORMATION

Summary of Effects: (Tralkoxydim technical)

Moderately toxic to fish. Practically non-toxic to invertebrates, birds and bees.

Eco-Acute Toxicity: (Tralkoxydim technical)

| | |
|---|--------------|
| Bees LC ₅₀ /EC ₅₀ | > 100 µg/bee |
| Invertebrates (Water Flea) LC ₅₀ /EC ₅₀ | > 175 ppm |
| Fish (Trout) LC ₅₀ /EC ₅₀ | > 7.2 ppm |
| Fish (Bluegill) LC ₅₀ /EC ₅₀ | > 6.1 ppm |
| Birds (8-day dietary – Bobwhite Quail) LC ₅₀ /EC ₅₀ | 6,237 ppm |
| Birds (8-day dietary – Mallard Duck) LC ₅₀ /EC ₅₀ | > 7,400 ppm |

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: 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 clean-up of spills.

CONTAINER DISPOSAL: Dispose of product containers, waste containers, and residues according to label instructions and provincial requirements.

14. TRANSPORT INFORMATION

DOT CLASSIFICATION:

Not regulated.

INTERNATIONAL TRANSPORTATION

IMO (vessel): UN3082, Environmentally hazardous substances, liquid, N.O.S. (Tralkoxydim), 9, PGIII

IATA (air): Not regulated.

15. REGULATORY INFORMATION

CANADIAN REGULATIONS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the CPR.

SARA TITLE III CLASSIFICATION:

| | |
|------------------|---------------------------------|
| Section 302: | Not applicable. |
| Section 311/312: | Acute health hazard (immediate) |

MATERIAL SAFETY DATA SHEET

Bison™ 400L

Page 4 of 6

Section 313: Chronic health hazard (delayed)
Not applicable

CA PROPOSITION 65: Not applicable

CERCLA RQ: Not applicable.

RCRA CLASSIFICATION: Under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste.

TSCA STATUS: The ingredients of this product are listed on the TSCA inventory or are exempt.

16. OTHER INFORMATION

| NFPA HAZARD RATINGS | NFPA | HMIS | |
|----------------------------|-------------|-------------|------------|
| HEALTH: | 1 | 1 | 0 MINIMAL |
| FLAMMABILITY: | 1 | 1 | 1 SLIGHT |
| REACTIVITY: | 0 | 0 | 2 MODERATE |
| | | | 3 HIGH |
| | | | 4 SEVERE |

MSDS DATE: Draft 2-27-09

The information herein is given in good faith, but no warrant, express or implied, is made. Consult Makhteshim Agan of North America, Inc. for further information.