

Safety Data Sheet



Restore A* Herbicide

*Trademark of Dow AgroSciences LLC

In case of emergency call CANUTEC at 613 996 6666

1. Product Identification:**Product name:** Restore A* Herbicide**Product use:** For control of broadleaf weeds in rangeland and pasture areas of Canada.**Effective Date:** January 23, 2008**Product Code:****Supplier:**Dow AgroSciences Canada Inc.
Suite 2100, 450 – 1st Street SW,
Calgary, Alberta,
Canada, T2P 5H1
www.dowagro.ca

This product is regulated under authority of the Pest Control Products Act

2. Composition:

Component	CAS number	%(w/w)
Aminopyralid (DE-750)	150114-71-9	40.6
Other ingredients	Not available	59.4

3. Hazard Identification:**Emergency Overview:**

This product is a brown liquid with a mild odor. This product may cause temporary eye irritation and skin irritation.

Potential Health Effects:**Eyes:** This product may cause slight temporary eye irritation. Corneal injury is unlikely.**Skin contact:** Brief contact may cause slight skin irritation with local redness.**Skin absorption:** Prolonged skin contact is unlikely to result in absorption of harmful amounts.**Ingestion:** Harmful effects not anticipated from swallowing small amounts of this product.**Inhalation:** Prolonged exposure is not expected to cause adverse effects.**4. First Aid Measures:**

Consult a physician in every case of suspected chemical poisoning. Never give fluids or induce vomiting if a patient is unconscious or convulsing regardless of cause of injury. If breathing difficulties occur seek medical attention at once.

Eyes: Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial one to two minutes and continue flushing for several additional minutes. Get specialist medical attention if effects occur.

Skin: Wash affected skin with plenty of water.

Ingestion: No emergency medical treatment necessary.

Inhalation: Move person to fresh air. If effects occur, get medical attention

Have the Material Safety Data Sheet, and if available, the product container or label with you when calling for or going for medical assistance.

Note to physician: If a burn is present, treat as any thermal burn, after decontamination. There is no specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

5. Fire-fighting Measures:**Auto-ignition temperature:** Not available**Flash point:** Not applicable (This is a water-based material)**Flammability limits:** Not available**Extinguishing media:** Use foam, CO2 or dry chemical.**Sensitivity to mechanical impact/static discharge:** Not available

Safety Data Sheet



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Unusual fire and explosion hazards: Foam fire extinguishing systems are preferred because uncontrolled water can spread possible contamination. Toxic irritating gases may be formed under fire conditions. Contain fire fighting water for future disposal.

Fire-fighting equipment: Wear positive-pressure self-contained breathing apparatus and full turnout gear. If protective equipment is not available or not used, fight fire from a protected location or safe distance.

6. Accidental Release Measures:

Soak up small spills with absorbent material such as HAZORB, or ZORBALL, peat moss, commercial sweeping compound or similar absorbent material; if these are not available use adsorbing agents such as kitty litter, sand, clay or topsoil. Store collected absorbed/adsorbed material in secure containers until safe disposal can be arranged. Avoid the use of water for cleanup, since spent water must be collected and treated as hazardous waste. Use hot water and heavy duty detergent to clean up any residual stains on hard surfaces. Small spills on topsoil should be allowed to degrade under natural conditions (see Section 13. Ecological Information – Degradation and Metabolism – Soil). Do not allow spilled material to contaminate water supplies. For large spills, dike and barricade the affected area and contact CANUTEC at 613 996 6666 and local authorities.

7. Handling and Storage:

Handling: Keep out of reach of children. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors and spray mist. Handle Restore A Herbicide in a ventilated area. Wash thoroughly with soap and water after handling and before eating, chewing gum, using tobacco, using the toilet or smoking.

Storage: Keep away from food, feedstuffs, and water supplies. Store in original container only with lid tightly closed.

8. Exposure Controls, Personal Protection and Exposure Limits:

Exposure limits: Aminopyralid: Not available

Other ingredients: Not available

Engineering controls: Good general ventilation should be sufficient for most conditions.

Breathing: No respiratory protection should be needed.

Protective clothing: For brief contact during manufacture, warehousing and transport, wear clean body-covering clothing. Applicators and other field handlers, including persons repairing or cleaning application equipment, must wear coveralls over clean body-covering clothing, impervious gloves and boots. As an additional precaution, persons making and/or transferring field dilutions of this product may wear an impervious apron.

Eyes: Use safety glasses.

Other protection: None specified.

9. Physical and Chemical Properties:

Boiling point: Not available

Vapor pressure: Not available

Vapor density: Not available

pH: 7.33 at 19.8°C for a 1% solution

Appearance: Brown liquid

Odor: Mild

Coefficient of water/oil distribution: Not available

Specific gravity: 1.14 g/mL at 20°C

Evaporation rate: Not available

Solubility in water: Not available

Freezing point: <-10°C

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Odor threshold: Not available

10. Stability and Reactivity:

Stability: This product is stable under recommended storage conditions.

Incompatibility: None known

Hazardous decomposition products: None known

Hazardous polymerization: Not known to occur.

11. Toxicological Information:

Skin absorption: Acute dermal LD50 (rat) is >5000 mg/kg.

Ingestion: Acute oral LD50 (rat) is >5000 mg/kg

Inhalation: The maximum practically-attainable concentration of this product in the tests (5.79 mg/L for four hours) produced no ill effects in test animals.

Sensitization: This product did not cause allergic skin reactions when tested in guinea pigs.

Chronic effects: Based on available data, repeated exposures are not anticipated to cause significant adverse effects.

Cancer: Aminopyralid does not cause cancer in laboratory tests.

Teratology defects: Aminopyralid did not cause birth defects or any other fetal effects in laboratory test animals.

Reproductive effects: Based largely or completely on information for similar material(s), aminopyralid will not interfere with reproduction in laboratory animal studies.

Mutagenicity: Results of *in-vitro* and animal genetic toxicity studies with aminopyralid were negative.

12. Ecological Information:

Aminopyralid is not toxic to bees and non-toxic to aquatic organisms on an acute basis. Aminopyralid is practically non-toxic to birds on an acute or dietary basis. Based largely or completely on information for aminopyralid, bio-concentration potential for Restore A Herbicide is low. For more complete ecotoxicological information contact Dow AgroSciences at 800 667 3852.

Degradation and Metabolism:

In soils: Under aerobic conditions, degradation of aminopyralid in five different soils resulted in half-lives ranging from 31.5 to 533.2 days. For risk assessment purposes, EPA uses a half-life of 103.5 days. Aminopyralid photolyzed moderately slowly on a soil surface. The half-life of aminopyralid of soil surfaces was 72 days. Aminopyralid is weakly sorbed to soil.

In water: Aminopyralid was stable to direct hydrolysis and in anaerobic sediment-water systems. In aerobic sediment-water systems, degradation proceeded slowly, with observed total system half-lives of 462 to 990 days.

In Animals: In a metabolism study in rat, aminopyralid was rapidly absorbed, distributed and excreted, following oral administration.

13. Disposal Considerations:

Unused unwanted product: Contact Dow AgroSciences or your provincial regulatory agency for disposal information.

Container disposal: Refer to the product label for instructions regarding cleaning and disposal of empty pesticide containers. If these instructions are missing or not understood, contact Dow AgroSciences at 800 667 3852 or your provincial regulatory agency for direction.

14. Transport Information:

This product is "Not Regulated" under regulations of the Transportation of Dangerous Goods Act.

15. Regulatory Information:

Pest Control Products Act registration number: 28551

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For information phone: 800 667 3852

SDS Version : 1

SDS Revisions : New

16. Other Information:

National Fire Code classification: Not available

NFPA ratings: Health: 1; Flammability: 0; Reactivity: 0.

Notice: The information contained in this Safety Data Sheet ("SDS") is current as of the effective date shown in Section 1 of this SDS and may be subject to amendment by Dow AgroSciences Canada Inc. ("DASCI") at any time. DASCI accepts no liability whatsoever which results in any way from the use of SDS that are not published by DASCI, or have been amended without DASCI express written authorization. Users of this SDS must satisfy themselves that they have the most recent and authorized version of this SDS and shall bear all responsibility and liability with respect thereto. Any conflict or inconsistencies as to the contents of this SDS shall be resolved in favor of DASCI by the most recent version of the SDS published by DASCI.