



## Interprovincial Cooperative Limited

2, 4-D AMINE 600

## MATERIAL SAFETY DATA SHEET

### 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 2, 4-D Amine 600\*  
Product Use: Phenoxy (Broadleaf) Herbicide  
Product Number: 17511

Manufacturer /Supplier: INTERPROVINCIAL COOPERATIVE LTD.  
945 Marion St.  
Winnipeg, Manitoba  
R2J 0K7 [www.ipco.ca](http://www.ipco.ca)

Effective Date: June 17, 2016

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

### 2: HAZARD IDENTIFICATION

#### Effects of Overexposure:

Route of Exposure: Inhalation, eye contact, skin contact, ingestion.  
Inhalation: A single exposure to vapors is not likely to be hazardous.  
Eye Contact: May cause severe irritation with corneal injury, which may result in permanent impairment of vision, even blindness.  
Skin Contact: May cause skin irritation.  
Ingestion: Moderately toxic; May cause gastrointestinal irritation and ulceration

### 3: COMPOSITION AND INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	% (W/W)
(2, 4-dichlorophenoxy) acetic acid,	2008-39-1	81.64 – 86.70
Dimethylamine		
Other ingredients		23.30 – 28.56

Ingredients not listed are proprietary or non-hazardous

### 4: FIRST AID MEASURES

Inhalation: Move victim to fresh air. Give artificial respiration ONLY if breathing has stopped. Give cardiopulmonary resuscitation (CPR) if there is no breathing AND no pulse. Obtain medical attention IMMEDIATELY.

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person.

Skin: Flush skin with running water, and then continue flushing with running water for 5 - 10 minutes. Start flushing while removing contaminated clothing. If irritation persists, repeat flushing. Obtain medical attention IMMEDIATELY.

Eyes: In case of contact, immediately flush eyes with plenty of water for 5 - 10 minutes and get medical attention.

Emergency Medical Care: Treatment based on judgment of the physician in response to reaction of the patient. There is no specific antidote.

**In case of emergency call CANUTEC at 613-996-6666**

Interprovincial Cooperative Ltd.; Information Phone: 204-233-3461

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**5: FIRE-FIGHTING MEASURES**

Unusual Fire & Explosion Hazards:	Noxious fumes may be formed under fire conditions. Contain water from fire fighting to prevent entry into water supplies.
Extinguishing Media:	Carbon Dioxide, Foam, Water Fog, and Dry Chemical. (But not SODA DRY POWDER)
Special Oxidizing Material Hazards:	Not Established
Hazardous Combustion Products:	Noxious (HCl & Amines) fumes under fire conditions.
Special Fire Fighting Procedures:	Use water spray to cool fire exposed containers or structures. Use self-contained breathing apparatus and protective clothing.

**6: ACCIDENTAL RELEASE MEASURES**

In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations.

**7: HANDLING AND STORAGE**

Store in a cool, well-ventilated area. Keep away from heat, sparks and filling of containers. Keep away from children; prevent contact with eyes, skin, and clothing. Do not store near fertilizers, foodstuffs, seed, insecticides or fungicides.

Do not contaminate irrigation ditches or domestic water supplies. If this happens notify police and local authorities.

**8: EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Limits:**

(2, 4-dichlorophenoxy) acetic acid, dimethylamine

LD50-ORAL: 300 mg/kg Rat

LD50-DERMAL: > 2000 mg/kg Rabbit

T.L.V. (ACGIH): 10 mg/m<sup>3</sup> (2, 4-D Acid)

LC50: Not Established

Special Engineering Controls: Local exhaust ventilation required.

Eye Protection: CSA approved safety glasses with side shields or goggles.

Respiratory Protection: No respiratory protection needed unless mist generated, then a NIOSH/MSHA toxic mist mask suggested.

Hand and Arm: PVC or rubber gloves.

Feet: Rubber boots.

Body: Coveralls.

Other Personal Protection: Recommendations listed above indicate the type of equipment which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

**9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid
Appearance & Odour:	Brown, Fishy Odour
Specific Gravity:	(@ 20 <sup>o</sup> c): 1.1930
Vapour density:	Not Established
Solubility in water:	Miscible

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Solubility in liquids:	Not Established
Freezing point:	- 3 <sup>0</sup> c
% volatile by volume:	Not Applicable
Boiling point:	100 <sup>0</sup> c
Odour threshold (ppm):	Not Established
Coefficient of water/oil distribution:	Not Applicable
Vapour pressure:	Not Established
Evaporation rate:	Not Established
pH:	8.1 - 8.5
Viscosity:	34.4 cps at 20°C
Flash Point & Method:	(°C): > 100 (Tag Closed Cup)
Flammable Limits (% in air):	Lower: Not Applicable Upper: Not Applicable
Autoignition Temperature	Not Applicable

### 10: STABILITY AND REACTIVITY

Decomposition Temp:	Not Established
Stability:	Stable under normal conditions.
Materials to Avoid:	Acids, oxidizing agents
Hazardous Decomposition Products:	Hydrogen Chloride and nitrogen oxides may be formed under fire conditions
Hazardous Polymerization or Condensation:	Will not occur.
Conditions to Avoid:	Elevated temperatures, product may boil then burn.

### 11: TOXICOLOGICAL INFORMATION

Skin Absorption:	Acute dermal LD50 (Rat)	>5000 mg/kg.
Ingestion:	Acute oral LD50 (rat)	635 mg/kg.
Inhalation:	LC50	Not Established
Chronic Health Hazards:	Excessive exposure may cause liver, kidney, gastrointestinal and muscle effects. Signs and symptoms of excessive exposure may be nausea, vomiting, abdominal cramps and diarrhea.	
Chronic Effects/ Carcinogenicity:	The International Agency for Research on Cancer (IARC) lists exposure to chlorophenoxy herbicides as a class 2B carcinogen, the category for limited evidence for carcinogenicity in humans. However, more current 2, 4-D lifetime feeding studies in rats and mice did not show carcinogenic potential.	
Reproductive Toxicity:	No impairment of reproductive function attributable to 2, 4-D has been noted in laboratory animal studies.	
Developmental Toxicity	Studies in laboratory animals with 2, 4-D have shown decreased fetal body weights and delayed development in the offspring at doses toxic to mother animals.	
Genotoxicity:	There have been some positive and some negative studies, but the weight of evidence is that 2, 4-D is not mutagenic.	

### 12: ECOLOGICAL INFORMATION

#### Data on 2, 4-D DMA:

96-Hour LC50 (mg/L): 250 (Rainbow Trout)  
 96-Hour LC50 (mg/L): 524 (Bluegill)  
 48-Hour EC50 (mg/L): 184 (Daphnia)  
 Oral LD50 (mg/kg): 500 (Bobwhite Quail)  
 Dietary LC50 (ppm): > 5620 (Mallard Duck)

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**Chemical Fate Information:** In laboratory and field studies, 2, 4-D DMA salt rapidly dissociated to parent acid. The typical half-life of the resultant 2, 4-D acid ranged from a few days to a few weeks

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**13: DISPOSAL CONSIDERATIONS**

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Dispose of waste materials in an approved incinerator or waste treatment/disposal facility in accordance with applicable regulations. Do not dispose of wastes in local sewer or with normal waste.

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**14: TRANSPORT INFORMATION**

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

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**15: REGULATORY INFORMATION**

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Pest Control Products Act  
Registration Number: 17511  
For Information Phone: 204-233-3461  
MSDS Status/  
Revised Sections:  
Replaces MSDS Dated: July 08, 2013

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**16: OTHER INFORMATION**

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WHMIS Ratings: D2B  
Notice: The enclosed information is supplied as a customer service and is provided in good faith. Although it has been based on data drawn from sources deemed to be reliable, IPCO cannot guarantee its accuracy and assumes no responsibility for conditions resulting from its use.