



Interprovincial Cooperative Limited

2, 4-D Ester 700

SAFETY DATA SHEET

1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: 2, 4-D Ester 700*

Product Use: Phenoxy (Broadleaf) Herbicide

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

Effective Date: February 02, 2018

*This product is regulated under the Pest Control Products Act

2: HAZARD IDENTIFICATION

| Routes of exposure: | Effects of overexposure: |
|---------------------|---|
| Eyes: | Mildly irritating |
| Skin: | Warning Skin irritant. Potential skin sensitizer |
| Inhalation: | May cause headaches, nausea, and lack of coordination. May be harmful if inhaled. |
| Ingestion: | May be harmful if swallowed. Aspiration can be hazard if this material is swallowed. Will cause vomiting, nausea, diarrhea |

3: COMPOSITION AND INFORMATION ON INGREDIENTS

| COMPONENT | CAS NUMBER | % (W/W) |
|--|------------|---------------|
| (2, 4-dichlorophenoxy) acetic acid, 2-ethylhexyl ester | 25168-26-7 | 88.32 – 93.78 |
| Hydrotreated light petroleum distillates | 64742-47-8 | 1.88 – 2.00 |
| Other ingredients | | 4.22 – 9.80 |

4: FIRST AID MEASURES

Eye contact: 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. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention

Skin contact: 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

Inhalation: 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

Ingestion: Call a poison control centre or doctor IMMEDIATELY for treatment advice. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person

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

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

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| Notes to physician: | No specific antidote. Treatment of any systemic intoxication should be primarily symptomatic and supportive. Contains petroleum distillates. Vomiting may cause aspiration pneumonia. Do not induce vomiting. This product may cause mild irritation to the eyes. Overexposure to 2, 4-D may cause coughing, burning, dizziness or temporary loss of muscle co-ordination. Other possible effects of overexposure include fatigue, muscle weakness or nausea |
| Suitable extinguishing media: | Carbon Dioxide, Foam, Water Fog, and Dry Chemical |
| Firefighting equipment/instructions: | Use water spray to cool fires exposed containers or structures. Use water spray to disperse vapours; re-ignition is possible. Use self-contained breathing apparatus and protective clothing |
| Hazardous combustion products: | Noxious fumes under fire condition |

6: ACCIDENTAL RELEASE MEASURES

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| Methods for containment: | In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations |
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7: HANDLING AND STORAGE

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

8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

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|-------------------------------|---|
| Exposure Limits for Product: | (2, 4-dichlorophenoxy) acetic acid, 2-ethylhexyl ester LD50-ORAL: 650 mg/kg Rat LD50-DERMAL: > 4000 mg/kg Rabbit T.L.V. (ACGIH): Not Established LC50: > 6.36 mg/L (4 hrs) Rat Hydrotreated light petroleum distillates LD50-ORAL: > 15, 000 mg/kg Rat LD50-DERMAL: > 3160 mg/kg Rabbit T.L.V. (ACGIH): Total Hydrocarbons: 1200 mg/m ³ LC50: Not Established |
| Special Engineering Controls: | Please refer to the product label. 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. When handling more than 401 L of 2,4-D Ester 700 Liquid Herbicide per day, workers must also use a closed system. |
| Eye/Face Protection: | Goggles or face shield when handling concentrate |
| Respiratory Protection: | Mixers/loaders/applicators using mechanically pressurized handguns must wear a respirator if they will be handling more than 7.5 L per day. DO NOT handle more than 12 L per day. |
| Skin and Body Protection: | Handling the concentrate (mixing and loading): Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Rinse gloves before removal. Handling the dilute spray solution (during application or repairing or cleaning equipment): Wear coveralls over a long-sleeved shirt, long pants, chemical-resistant gloves, socks and shoes. Rinse gloves before removal. Gloves are not required during application when applicator is in an enclosed tractor or an enclosed airplane cockpit |

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General Hygiene
Considerations

Handle in accordance with good industrial hygiene and safety practice specific protective devices at your workplace

9: PHYSICAL AND CHEMICAL PROPERTIES

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| Physical State: | Liquid |
| Appearance & Odour: | Brown Colour "Solvent" odour |
| Specific Gravity (@ 20 ⁰ c): | 1.1330 |
| Vapour density: | Hydrotreated light petroleum distillates: > 7.5 (Air =1) |
| Solubility in water: | Emulsifies |
| Solubility in liquids: | Not Established |
| Freezing point: | < 0 ⁰ C |
| % volatile by volume: | Not applicable |
| Boiling point (°C): | Hydrotreated light petroleum distillates: 237 - 277°C |
| Odour threshold (ppm): | Not Established |
| Coefficient of water/oil distribution: | Not Applicable |
| Vapour pressure (mm Hg): | Hydrotreated light petroleum distillates: 0 Kpa @ 20°C |
| Evaporation rate: | Hydrotreated light petroleum distillates: < 0.001 (n-butyl acetate = 1) |
| pH (1% Sol'n): | 5.0 |
| Viscosity: | 34.4 cps at 20°C |
| Flash Point & Method (°C): | > 93.3 (Tag Closed Cup) |
| Flammable Limits (% in air): | Lower: 0.5 Upper: 4.8 |
| Autoignition Temperature (°C): | Hydrotreated light petroleum distillates: 243°C |

10: STABILITY AND REACTIVITY

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| Chemical stability: | Stable under normal conditions |
| Conditions to avoid: | High temperatures, sparks, open flames, and all other sources of ignition |
| Incompatible materials: | Acidic, basic or oxidizing agents |
| Hazardous decomposition products: | Hydrogen Chloride, Carbon Dioxide, Carbon Monoxide, and other chloride compounds |

11: TOXICOLOGICAL INFORMATION

| Components | Test Results | | |
|------------------|---|-------------------------|------------------------|
| 2,4-D Ester 700 | Skin Absorption: | Acute dermal LD50 (Rat) | >4000 mg/kg. |
| | Ingestion: | Acute oralLD50 (rat) | 737 mg/kg. |
| | Inhalation: | LC50 | 2.66 mg/L (4 hr, nose- |
| | only exposure) Rat | | |
| | T.W.A. (ACGIH): | Total Hydrocarbons: | 1200 mg/m ³ |
| Chronic effects: | Prolonged or repeated exposure may lead to kidney or central nervous system symptoms | | |
| 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. Products similar to the hydrocarbon component are not considered to be mutagenic and are unlikely to cause tumors. | | |

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| Mutagenicity: | There have been some positive and some negative studies, but the weight of evidence is that 2, 4-D is not mutagenic. Products similar to the hydrocarbon component are not considered to be mutagenic |
| Reproductive effects: | No impairment of reproductive function attributable to 2, 4-D has been noted in laboratory animal studies |
| Teratogenicity: | 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. Products similar to the hydrocarbon component are not considered to be developmental toxicants. |

12: ECOLOGICAL INFORMATION

Data on 2, 4-D 2-EHE or EC formulation:

96-Hour LC50 (mg/L): 7.2 (Rainbow Trout)
96-Hour LC50 (mg/L): > 5 (Bluegill)
48-Hour EC50 (mg/L): > 5 (Daphnia)
Oral LD50 (mg/kg): > 5620 (Bobwhite Quail)
Dietary LC50 (ppm): > 5620 (Mallard Duck)

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

13: DISPOSAL CONSIDERATIONS

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

14: TRANSPORT INFORMATION

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

15: REGULATORY INFORMATION

Pest Control Products
Number: 32882
For Information Phone: 204-233-3461
SDS Status/Revised
Sections: New
Replaces MSDS Dated: New

16: OTHER INFORMATION

WHMIS Ratings: B3, 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.

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