

# Viterra Inc.

## Material Safety Data Sheet

Product: **Viterra 2, 4-D Ester 700 Herbicide**

### IDENTIFICATION & DESCRIPTION

**PCP Act Reg. #:** 29006  
**WHMIS CLASS (ES):** B3, D2B  
**PHYSICAL STATE:** Liquid  
**APPEARANCE & ODOUR:** Brownish colour "Solvent" odour  
**USES:** Phenoxy (Broadleaf) Herbicide  
**MANUFACTURED FOR:** Viterra Inc.  
**ADDRESS:** 2625 Victoria Avenue  
Regina, SK S4T 7T9  
**MANUFACTURED BY:** Interprovincial Cooperative Limited  
**ADDRESS:** 945 Marion St.  
Winnipeg, Manitoba  
R2J 0K7  
**EMERGENCY PHONE NO:** (613) 996-6666 (Canutec) / (877) 943-2876 (Viterra)

### PHYSICAL DATA

**SPECIFIC GRAVITY:** (@ 20<sup>0</sup>C): 1.1300  
**VAPOUR DENSITY:** (Air = 1) **Exxsol D110:** > 7.5  
**SOLUBILITY IN WATER:** Emulsifies  
**SOLUBILITY IN LIQUIDS:** Not Established  
**FREEZING POINT:** < 0<sup>0</sup>C  
**% VOLATILE BY VOLUME:** Not Established  
**BOILING POINT:** **Exxsol D110:** 237 - 277<sup>0</sup>C  
**ODOUR THRESHOLD (ppm):** Not Established  
**COEFFICIENT OF WATER/OIL DISTRIBUTION:** Not Established  
**VAPOUR PRESSURE:** **Exxsol D110:** 0 KPa @ 20<sup>0</sup>C  
**EVAPORATION RATE:** (n-butyl acetate = 1) **Exxsol D110:** < 0.001  
**PH: (1% sol'n)** 5.0  
**VISCOSITY:** (@ 20<sup>0</sup>C): 34.4 cps

### CONTROLLED PRODUCTS LIST

#### 2, 4-D LV Ester 700

<b>LD50-ORAL:</b>	737 mg/kg Rat	<b>LD50-DERMAL:</b>	> 2000 mg/kg Rat
<b>T.L.V. (ACGIH):</b>	Not Established	<b>LC50:Inhalation:</b>	2.66 mg/L (4 hr, nose-only exposure) Rat

#### 2, 4-dichlorophenoxy acetic acid, 2-ethylhexyl ester

<b>C.A.S. #:</b>	25168-26-7	<b>% (W/W):</b>	60 - 100
<b>LD50-ORAL:</b>	650 mg/kg Rat	<b>LD50-DERMAL:</b>	> 4000 mg/kg Rabbit
<b>T.L.V. (ACGIH):</b>	Not Established	<b>LC50:</b>	> 6.36 mg/L (4hrs) Rat

#### Non-Hazardous

<b>C.A.S. #:</b>	Not Established	<b>% (W/W):</b>	1 - 5
<b>LD50-ORAL:</b>	Not Established	<b>LD50-DERMAL:</b>	Not Established
<b>T.L.V. (ACGIH):</b>	Not Established	<b>LC50:</b>	Not Established

#### Exxsol D110 Fluid

<b>C.A.S. #:</b>	64742-47-8	<b>% (W/W):</b>	1 - 5
<b>LD50-ORAL:</b>	Not Established	<b>LD50-DERMAL:</b>	Not Established
<b>T.W.A. (ACGIH):</b> Total Hydrocarbons	1200 mg/m <sup>3</sup>	<b>LC50:</b>	Not Established

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**FIRE & EXPLOSION DATA**

**FLASH POINT & METHOD:** (°C): 93 (Tag Closed Cup)

**FLAMMABLE LIMITS (% IN AIR): Exxsol D110:** Lower: 0.5%

Upper: 4.6%

**AUTOIGNITION TEMPERATURE: Exxsol D110:** 243°C

**UNUSUAL FIRE & EXPLOSION HAZARDS:** Toxic fumes under high temperature conditions. Contain water from fire fighting to prevent entry into water supplies.

**EXTINGUISHING MEDIA:** Carbon Dioxide, Foam, Water Fog, and Dry Chemical.

**SPECIAL OXIDIZING MATERIAL HAZARDS:** Not Established

**HAZARDOUS COMBUSTION PRODUCTS:** Noxious fumes under fire conditions.

**SPECIAL FIRE FIGHTING PROCEDURES:** 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 REACTIVITY**

**DECOMPOSITION TEMP:** Not Established

**STABILITY:** Stable under normal conditions.

**MATERIALS TO AVOID:** Acidic, basic or oxidizing agents

**HAZARDOUS DECOMPOSITION PRODUCTS:** Hydrogen Chloride, Carbon Dioxide, Carbon Monoxide, and other chloride compounds

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** High temperatures, sparks, open flames, and all other sources of ignition.

**TOXICOLOGICAL DATA**

**CHRONIC HEALTH HAZARDS:** Prolonged or repeated exposure may lead to kidney or central nervous system symptoms.

**MUTAGENICITY DATA:** No information is available and no adverse mutagenic effects are anticipated.

**CARCINOGENICITY DATA:** No information is available and no adverse carcinogenic effects are anticipated.

**TERATOGENICITY DATA:** No information is available and no adverse teratogenic effects are anticipated.

**REPRODUCTIVE EFFECTS:** No information is available and no adverse reproductive effects are anticipated.

**ROUTES OF ENTRY:** Inhalation, Ingestion, Absorption through skin

**EFFECTS OF OVEREXPOSURE (INHALATION):** May cause headaches, nausea, and lack of coordination. May be harmful if inhaled.

**EFFECTS OF OVEREXPOSURE (EYES):** Mildly irritating

**EFFECTS OF OVEREXPOSURE (SKIN):** Warning Skin irritant. Potential skin sensitizer

**EFFECTS OF OVEREXPOSURE (INGESTION):** May be harmful if swallowed. Aspiration can be a hazard if this material is swallowed. Will cause vomiting, nausea, diarrhea.

**TOXICOLOGICAL INFORMATION:** 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.

**PREVENTATIVE MEASURES**

**STORAGE AND USE:** Store in a cool, well-ventilated area. Keep away from heat, sparks and "filling" of containers. Keep away from children, prevent contact with eyes, and skin 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.

**STEPS TO BE TAKEN IN THE EVENT OF A SPILL, LEAK, OR RELEASE:** Eliminate all sources of ignition. Stop or reduce discharge if safe to do so. Prevent from entering watercourses or sewers. Ventilate enclosed spaces.

**For large spills:** Contain by dyking for release to land, or damming for release to water. Recover product and collect contaminated soil or water for treatment and/or disposal. **Small spills:** Contain by applying absorbent. Collect waste absorbent and contaminated soil for disposal. For significant releases, contact appropriate regulatory authorities.

**SPECIAL ENGINEERING CONTROLS:** Local exhaust ventilation suggested.

**WASTE DISPOSAL METHOD:** Dispose of waste materials in accordance with provincial regulations. Do not dispose of wastes in local sewer or with normal waste.

**EYE PROTECTION:** CSA approved safety glasses with side shields or goggles.

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**RESPIRATORY PROTECTION:** A NIOSH/MSHA approved air-purifying respirator equipped with organic vapor cartridges near or below TLV. Air supplied respirator above TLV or unknown concentrations.

**SKIN PROTECTION (HAND AND ARM):** PVC or Rubber gloves.

**SKIN PROTECTION (FEET):** Rubber boots.

**SKIN PROTECTION (BODY):** Coveralls or long sleeve shirt and long pants.

**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.

### FIRST AID DATA

In case of poisoning, call a physician or poison control centre IMMEDIATELY.

**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 swallowed,** 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.

**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.

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

### OTHER INFORMATION

**SPECIAL SHIPPING INFORMATION:** Observe applicable shipping and handling regulations.

**ADDITIONAL INFORMATION:** 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, VITERRA OR IPCO CANNOT GUARANTEE ITS ACCURACY AND ASSUMES NO RESPONSIBILITY FOR CONDITIONS RESULTING FROM ITS USE.

### TRANSPORT OF DANGEROUS GOODS DATA

<b>SHIPPING NAME:</b>	NOT REGULATED	<b>P.I.N.:</b>	Not Applicable
<b>CLASSIFICATION:</b>	Not Applicable		
<b>PACKING GROUP:</b>	Not Applicable		

### PREPARATION DATA

<b>PREPARATION DATE:</b>	02/08/2008	<b>PREPARED BY:</b>	Wayne Eastveld
<b>DEPARTMENT:</b>	Laboratory		
<b>PHONE NUMBER:</b>	(204) 233-3461		