

## MATERIAL SAFETY DATA SHEET

### CORNBELT METRO

Van Diest Supply Company  
P.O. Box 610  
Webster City, IA 50595  
515-832-2366

FOR CHEMICAL EMERGENCY  
SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT  
CALL CHEMTREC - DAY OR NIGHT  
1-800-424-9300

### PRODUCT IDENTIFICATION

**Common Name:** Cornbelt Metro  
**EPA Reg. No.:** 11773-20

### INGREDIENTS

		<u>OSHA PEL</u>	<u>TLV (ACGIH)</u>
2,4-Dichlorophenoxyacetic Acid, 2-Ethylhexyl Ester	87.2%	N/A	10mg/M3
Inert Ingredients	12.8%	N/A	10mg/M3

### HAZARDOUS COMMUNICATION STANDARD

This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

### FIRST AID

**Eyes:** Hold eyes 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 eyes. Call a poison control center or doctor for treatment advice.

**Skin:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash clothing before reuse. Discard shoes and other leather items, which cannot be decontaminated.

**Ingestion:** Call a poison control center 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 center or doctor. Never give anything by mouth to an unconscious person.

**Inhalation:** Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, and then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask, etc.). Call a poison control center or doctor for treatment advice.

**Note to Physician:** If burn present, treat as any thermal burn, after decontamination. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the MSDS, and if available, the product container or label with you when calling a poison control center or doctor, or going for treatment.

### FIRE PROTECTION INFORMATION

**Flash Point:** >276 °F; >135 °C (PMCC)

**Flammable Limits in Air % by Volume:** Not Determined

**Auto Ignition Temperature:** N/A

**Extinguishing Media:** Foam, carbon dioxide, dry chemical

**Special Fire Fighting Procedures:** Use positive-pressure breathing apparatus and full protective equipment.

**Fire and Explosion Hazards:** Foam fire extinguishing system is preferred because uncontrolled water can spread possible contamination. Toxic irritating gases may be formed under fire conditions.

### **EXPOSURE CONTROLS**

These precautions are suggested for conditions where the potential for exposure exists.

Emergency conditions may require additional precautions.

**Exposure Guidelines:** 2,4-D 2-EHE: None established. The ACGIH TLV and OSHA PEL are both 10 mg/M<sup>3</sup> for 2,4-D acid.

**Engineering Controls:** Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

### **PERSONAL PROTECTION**

**Eye/Face Protection:** Use chemical goggles

**Skin Protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, and apron or full-body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse or dispose of properly. Items which can not be decontaminated, such as shoes, belts, and watchbands, should be removed and disposed of properly. Safety Shower should be located in immediate work area.

**Respiratory Protection:** Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use a NIOSH approved air-purifying respirator. The following should be effective types of air-purifying respirators: organic vapor cartridge.

### **TOXICOLOGICAL INFORMATION**

**Eyes:** May cause slight irritation. May cause slight corneal injury.

**Skin:** Prolonged contact may cause moderate skin irritation with local redness. Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD<sub>50</sub> for rats is >5000 mg/kg.

**Ingestion:** Low toxicity if swallowed. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury. The oral LD<sub>50</sub> for female rats is 3129 mg/kg.

**Inhalation:** No adverse effects are anticipated from single exposure to mist. The aerosol LC<sub>50</sub> for rats is >5.16 mg/L for 4 hours.

**Systemic:** For a similar material, in animals, effects have been reported on the following organs; gastrointestinal tract, kidney, liver, and muscles.

**Cancer Information:** A similar material did not cause cancer in laboratory animals. Various animal cancer tests have shown no reliably positive association between 2,4-D exposure and cancer. Epidemiology studies on herbicide use have been both positive and negative with the majority being negative.

**Teratology (Birth Defects):** A similar material did not cause birth defects in laboratory animals.

**Reproductive Effects:** For a similar material, excessive dietary levels have caused decreased weight and survival in offspring in a rat reproduction study.

**Mutagenicity:** For the active ingredient: in-vitro and animal genetic studies were negative.

### **PHYSICAL DATA**

**Boiling Point:** Not determined

**Specific Gravity (H<sub>2</sub>O=1):** 1.142

**Bulk Density:** 9.5 lb/gal

**pH:** 4

**Solubility in Water:** Not determined

**Appearance and Odor:** Amber liquid with slight odor

### **ECOLOGICAL INFORMATION**

**Movement and Partitioning:** Based largely or completely on information for the active ingredient. Bioconcentration potential is high (BCF >3000 or Log Pow between 5 and 7). Expected to be relatively immobile in soil (Koc >5000).

**Degradation and Persistence:** Based largely or completely on information for the active ingredient. Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results did not necessarily mean that the material is not biodegradable under environmental conditions.

**Ecotoxicology:** Based largely or completely on information for the active ingredient. Material is slightly toxic to aquatic organisms on an acute basis (LC<sub>50</sub> or EC<sub>50</sub> is between 10 and 100 mg/L in the most sensitive species tested). Material is slightly toxic to birds on an acute basis (LD<sub>50</sub> is between 501 and 2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC<sub>50</sub> >5000 ppm).

### **REACTIVITY DATA**

**Stability:** Stable under normal conditions

**Incompatibility (Materials to Avoid):** Acid, base, oxidizing material

**Hazardous Decomposition Products:** Hydrogen Chloride and other noxious fumes under fire conditions.

**Hazardous Polymerization:** Not known to occur

### **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 concentrate in ventilated area. Wash thoroughly with soap and water after handling and before eating, chewing gum, using tobacco, using the toilet, or smoking. Keep away from food, feedstuffs, and water supplies. Store in original container in a well ventilated area.

**ACCIDENTAL RELEASE MEASURES****Steps To Be Taken in Case Material is Released or Spilled:**

Absorb spills with inert dry material such as sand, sawdust, or dirt. Wash exposed body areas thoroughly after handling. Do not use water for cleanup.

**DISPOSAL METHOD**

Wastes may be considered hazardous. Follow all label directions in accordance with local, state and federal regulations. This information presented only applies to the material as supplied. The identification based on characteristics or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

**DOT INFORMATION**

For Containers with Less than 100 Pounds of 2,4-D:

**Proper Shipping Name:** *Compounds, Tree or Weed Killing, Liquid, N.O.I.*

For Non-Bulk Containers with More than 100 Pounds of 2,4-D:

**Proper Shipping Name:** *RQ, Environmentally Hazardous Substance, Liquid, N.O.S.  
(Contains 2,4-D Acid), 9, UN3082, PGIII,*

**Hazard Class:** 9

**Packing Group:** III

**Label:** Non-Bulk -- Class 9

For Bulk Shipments by Land or Vessel (Do Not Ship by Air):

**Proper Shipping Name:** *RQ, Combustible Liquid, N.O.S., (Contains 2,4-D Acid), 9,  
Combustible Liquid, NA1993, PG III,*

**Hazard Class:** 9

**Packing Group:** III

**Label:** Bulk -- Class 9 Placard with NA1993

**REGULATORY INFORMATION**

**Product Description:** Mixture; Liquid

**311/312 Hazard Categories:**

Acute (immediate)

Delayed (Chronic)

**313 Reportable Ingredients:** 2,4-D EHE (87.2%)

**TSCA:** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**Reportable Quantity:** 114 lbs.

**ADDITIONAL INFORMATION**

Prepared By: Van Diest Supply Co.

Date Prepared: 2-2007

Date Revised: N/A

The information, data and recommendations in this material safety data sheet relate only to the specific material designated herein and do not relate to use in combination with any other material or in any process. The information, data, and recommendations set forth herein are believed by Van Diest Supply Co. to be accurate. Van Diest Supply Co. makes no warranties, either expressed or implied, with respect thereto and assumes no liability in connection with any use of such information, data and recommendations.

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