

# MATERIAL SAFETY DATA SHEET

# SENTRY 2,4-D LV 6 HERBICIDE



**1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**  
UNITED SUPPLIERS, INC.  
BOX 538  
Eldora, IA 50627

**PRODUCT NAME:** SENTRY 2,4-D LV 6 HERBICIDE

**EPA REG. NO.:** 62719-8-33270

**CHEMICAL NAME:** 2,4-Dichlorophenoxy acetic acid, 2-ethylhexyl ester

**CHEMICAL FAMILY:** Herbicide

**EMERGENCY CONTACT:** In the event of chemical emergencies involving a spill, leak, fire exposure, or accident involving chemicals -- call **CHEMTREC (800) 424-9300**.

## 2. HAZARDS IDENTIFICATION SUMMARY

**KEEP OUT OF REACH OF CHILDREN – CAUTION:** Harmful If Swallowed Or Absorbed Through Skin, Causes Moderate Eye Irritation, Prolonged Or Frequently Repeated Skin Contact May result in absorption of harmful amounts

## 3. COMPOSITION, INFORMATION ON INGREDIENTS

<u>Chemical Ingredients:</u>	<u>Percentage by Weight:</u>	<u>CAS No.</u>	<u>PEL (Units)</u>
2,4-Dichlorophenoxy acetic acid, 2-ethylhexyl ester	89.4	1928-43-4	Not listed
Other ingredients	10.6	-----	-----
including 2-Ethylhexanol		104-76-7	Not Listed

## 4. FIRST AID MEASURES

**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 center or doctor for treatment advice.

**If on Skin or Clothing:** 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.

**If Swallowed:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by the poison control center 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 center or doctor for treatment advice.

**FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT** have the product container or label with you when calling a poison control center or doctor.

**Notes to Physician:** 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

**FLASH POINT** (<sup>o</sup>F/Test Method): >200°F

**FLAMMABLE LIMITS** (LFL & UFL): Not established

**EXTINGUISHING MEDIA:** Use foam, dry chemical, carbon dioxide, water spray or fog.

**HAZARDOUS COMBUSTION PRODUCTS:** Toxic fumes including but not limited to Hydrogen chloride and oxides of carbon may be emitted in a fire situation.

**SPECIAL FIRE FIGHTING PROCEDURES:** Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Fire exposed containers can build up pressure and should be kept cool with water spray if possible. Explosive vapor could form from ruptured containers. Dike and collect water used to fight fire to prevent environmental damage due to run off. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Can burn in fire, releasing irritating and toxic gases due to thermal decomposition or combustion.

**FIRE FIGHTING EQUIPMENT:** Self-contained breathing apparatus with full facepiece. Full fire fighting turn-out gear (Bunker gear).

**HAZARDOUS COMBUSTION PRODUCTS:** Normal combustion forms carbon dioxide, water vapor and may produce oxides of carbon, nitrogen and phosphorous.

## 6. ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Absorb small spills in an inert material such as clay, dirt or sand. Place in a suitable and properly labeled container. Dike the area of large spills, report to United Suppliers @ 800-782-5123

## 7. HANDLING AND STORAGE

**HANDLING:** Wash hands after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**STORAGE:** Store in original container with lid tightly closed, away from children and animals. Keep away from water, foodstuffs, feed or seed.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:** **Ventilation:** Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an approved air-purifying respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

**Ingestion:** Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

### Personal Protective Equipment (PPE):

Some materials that are chemical-resistant to this product are made of barrier laminate, nitrile rubber, neoprene rubber, or viton. If you want more options, follow the instructions for category E on an EPA chemical resistance category selections chart.

**All mixers, loaders, applicators, flaggers, and other handlers must wear:** Long-sleeved shirt and long pants, Shoes plus socks, Chemical-resistant gloves (except pilots), and Chemical resistant apron when mixing or loading, cleaning up spills or equipment, or otherwise exposed to the concentrate.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE AND ODOR:** Yellow to Brown liquid, mild

**SPECIFIC GRAVITY** (Water=1): 1.10 – 1.18 g/ml

**VAPOR PRESSURE:** Not established

**PERCENT VOLATILE** (by volume): Not established

**Note:** These physical data are typical values based on material tested but may vary from sample to sample.

Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

**SOLUBILITY:** Emulsifies **pH:** 4 - 5 (1%)

**BULK DENSITY:** 9.17 – 9.84 lbs/gal.

**BOILING POINT:** Not established

**EVAPORATION RATE:** Not established

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** Avoid elevated temperatures as the active ingredient will decompose.

**IMCOMPATIBILITY:** Avoid contact with oxidizers, bases and acids.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**HAZARDOUS DECOMPOSITION PRODUCTS:** May include oxides of carbon or nitrogen, hydrogen chloride.

## 11. TOXICOLOGICAL INFORMATION

**Acute Oral LD<sub>50</sub>:** 896 mg/kg (rat)

**Acute Dermal LD<sub>50</sub>:** >4,000 mg/kg (Rabbit)

**Eye Irritation:** May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur.

**Skin Irritation:** Prolonged contact is essentially non-irritating to skin. Repeated contact may cause skin irritation with local redness.

**Inhalation LC<sub>50</sub>:** >5.39 mg/L (Rat)

**Skin sensitization:** Prolonged Or Frequently Repeated Skin Contact May Cause Allergic Skin Reactions In Some Individuals

## 12. ECOLOGICAL INFORMATION

Material is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/L in the most sensitive species tested). Material is slightly toxic to birds on an acute basis (LD50 between 501 and 2000 mg/kg). Material is practically non-toxic to birds on a dietary basis (LC50 > 5000 ppm).

## 13. DISPOSAL CONSIDERATIONS

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or in accordance with applicable Federal, state or local procedures.

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Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned, or destroyed.

## 14. TRANSPORT INFORMATION

**PROPER SHIPPING NAME:** (>17 gal) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**DOT HAZARD CLASS:** 9

**UN NUMBER:** 3082

**DOT PACKING GROUP:** III

**DOT PRIMARY/SECONDARY LABEL:** 9 / None

**DOT PRIMARY/SECONDARY PLACARD:** 9 / None

## 15. REGULATORY INFORMATION

**NFPA RATINGS:** Least = 0      Slight = 1      Moderate = 2      High = 3      Severe = 4  
**Ratings for this product:** Health – 2      Flammability – 0      Instability – 1      Special Hazards – None Specified

**SARA Title III Hazard Category:** Immediate Y      Fire N      Sudden Release of Pressure N  
Delayed N      Reactive N

**Reportable Quantity (RQ) under U.S. CERCLA:** 2,4-D Ester = 100lbs. (~17 gallons of this product)

**SARA, Title III, Section 313:** 2,4-D 2-ethylhexyl ester      CAS #1928-46-4      89.4%

**CA Proposition 65:** Not listed

## 16. OTHER

**Date of Issue:** 02/22/11      **Supersedes:** New

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