



# MATERIAL SAFETY DATA SHEET



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## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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**PRODUCT NAME:** AllPro Cygon 2E  
**EPA REG. NUMBER:** 769-948  
**PRODUCT NUMBER:** 332821

**MANUFACTURER:** Value Garden Supply  
**ADDRESS:** P.O. Box 585, St. Joseph, MO 64502

**MANUFACTURER PHONE:** (888) 603-1008  
**MANUFACTURER FAX PHONE:** (952) 884-6149  
**EMERGENCY PHONE:** (800) 858-7378

**PRODUCT USE:** A systemic insecticide for the control of many insects including mites, aphids, thrips, miners and scales on ornamental plants, trees and flowers.

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## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

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<u>INGREDIENTS*:</u>	<u>CAS NO.</u>	<u>% WT</u>	<u>OSHA TWA</u>	<u>OSHA STEL</u>	<u>ACGIH TWA</u>	<u>ACGIH STEL</u>
Dimethoate	60-51-5	23.4%	N/E	N/E	N/E	N/E
aromatic hydrocarbon solvent	64742-95-6	<50.0	N/E	N/E	N/E	N/E
cyclohexanone	108-94-1	<30	50 ppm	N/E	25 ppm	N/E

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## SECTION 3: HAZARDS IDENTIFICATION

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**EMERGENCY OVERVIEW:** Potential Health Effects

**POTENTIAL HEALTH EFFECTS:** This material may be moderately irritating to the eyes and slightly irritating to the skin. Personnel responding to a spill of this material **MUST** wear protective clothing to avoid skin contact or inhalation of particles to prevent toxic effects.

**CARCINOGENICITY:** None listed per OSHA, NTP, or IARC

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## SECTION 4: FIRST AID MEASURES

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**EYES:** Immediately flush eyes with water for at least 15 minutes. Seek medical attention.

**SKIN:** Wash with plenty of soap and water. Get medical attention if irritation persists.

**INGESTION:** If swallowed, promptly drink large amounts of water. **DO NOT INDUCE VOMITING.** Never give liquids to an unconscious person. Get medical attention.

**INHALATION:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

**NOTES TO PHYSICIANS OR FIRST AID PROVIDERS:** Dimethoate has moderate toxicity relative to other organophosphates (on the basis of a number of cases, the oral lethal dose for human beings was estimated to be of the order of 50-500 mg/kg); the symptoms of dimethoate poisoning are similar to those of poisoning by other organophosphorus insecticides, but the clinical picture evolves much more slowly. Its acute toxicity is variable and depends strongly upon the kinetics of absorption. Use of opiates, 2-PAM, succinylcholine or other cholinesterase inhibiting drugs is CONTRAINDICATED.



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## SECTION 5: FIRE-FIGHTING MEASURES

**FLAMMABILITY CLASSIFICATION:**

**FLASH POINT:** 105EF (TCC)

**AUTOIGNITION TEMPERATURE:** N/A

**EXTINGUISHING MEDIA:** Water, dry chemical or foam.

**SPECIAL FIRE FIGHTING PROCEDURES:** Use NIOSH/MSHA approved SCBA and bunker gear.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** oxides of carbon, sulfur, phosphorus, possible conversion to more toxic dithio-isomer

<b>NFPA HAZARD CLASSIFICATION:</b>	<u>HEALTH</u> 2	<u>FIRE</u> 2	<u>REACTIVITY</u> 0	<u>SPECIFIC</u> N/A
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<b>NFPA HAZARD RATING CODES:</b>	<u>INSIGNIFICANT</u> 0	<u>SLIGHT</u> 1	<u>MODERATE</u> 2	<u>HIGH</u> 3	<u>EXTREME</u> 4
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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Extinguish all ignition sources, adsorb material with appropriate sorbent.

**CONTAINMENT:** Sweep up material carefully to avoid excessive dusting. Reuse material if possible. If original containers are not available and material is not reusable, place in metal drum and seal. Dispose of in accordance with instructions in Section 13.

**REGULATORY REQUIREMENTS:** N/A

## SECTION 7: HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in well-closed, upright containers in a cool, dry, well-ventilated area out of reach of children. Do not contaminate water, food or feed by storage or disposal. Do not reuse container. Store between 45 - 77°F. Avoid breathing vapor or particles. Avoid contact with skin or clothing. Remove pets, and cover fish aquariums before applying.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**ENGINEERING CONTROLS:** Engineering controls may be needed; if industrial hygiene surveys show that occupational exposure limits may be exceeded, use NIOSH approved respirator with organic vapor/dust/mist cartridges, or mechanical ventilation.

**VENTILATION:** Recommended

**RESPIRATORY PROTECTION:** Use NIOSH approved respirator with organic vapor/dust/mist cartridges, or mechanical ventilation.

**EYE PROTECTION:** Goggles or faceshield recommended

**SKIN PROTECTION:** Protective gloves required; applicators should wear long pants and long-sleeved shirt.

**WORK HYGIENIC PRACTICES:** N/A

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Clear amber liquid

**VAPOR PRESSURE (mmHg):** N/A

**ODOR:** Sour, pungent odor

**VAPOR DENSITY (AIR = )::** N/A



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**PHYSICAL STATE:** Liquid

**SPECIFIC GRAVITY:** 0.98

**BOILING POINT:** N/A

**DENSITY:** N/A

**MELTING POINT:** N/A

**PARTICAL SIZE:** N/A

**FREEZING POINT:** N/A

**AUTO IGNITION:** N/A

**WATER SOLUBILITY:** Emulsifies

**OTHER SOLUBILITIES:** N/A

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### SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** Stable

**INCOMPATIBILITY (MATERIAL TO AVOID):** Excessive heat. Avoid contamination with strong acids or alkalies.

**HAZARDOUS POLYMERIZATION:** Will not occur

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### SECTION 11: TOXICOLOGICAL INFORMATION

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**ACUTE ORAL EFFECTS:** Dimethoate: Oral Rat LD<sub>50</sub> = 240-336 mg/kg Cyclohexanone: Oral Rat LD<sub>50</sub> = 1535 mg/kg

**ACUTE DERMAL EFFECTS:** Dimethoate: Rat, Dermal, LD<sub>50</sub> = >800 mg/kg Cyclohexanone: Rabbit, Dermal, LD<sub>50</sub> = 948 mg/kg

**CARCINOGENICITY:** None listed per OSHA, NTP, or IARC

**EYE EFFECTS:** Blurring or dimness of vision, miosis (with fixed pinpoint pupils),

**NOT TO CONSUMERS:** Information provided in this section is oriented to medical and public health professionals involved in the assessment and treatment of excessive and/or accidental exposures. Symptoms of overexposure may include: nausea, followed by vomiting, abdominal cramps, diarrhea, excessive salivation, headache, giddiness, vertigo, weakness, rhinorrhea and a sensation of tightness in the chest (in inhalation exposures), bradycardia or tachycardia, atrial arrhythmias, loss of muscle coordination, slurring of speech, fasciculations and twitching of muscles (particularly of the tongue and eyelids), and generalized profound weakness. Hypothermia has been reported. Blurring or dimness of vision, miosis (with fixed pinpoint pupils), tearing, ciliary muscle spasm, loss of accommodation, and ocular pain may also be present.

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### SECTION 12: ECOLOGICAL INFORMATION

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**ECOTOXICITY:** May be hazardous to aquatic invertebrates. Do not apply directly to water; do not contaminate water by drift, runoff, or cleaning of equipment or disposal of washwaters.

**ENVIRONMENTAL FATE:** a Koc value of 5.2 - 36 has been reported for Dimethoate. The BCF for cyclohexanone can be estimated to be 2.4 based on the log K<sub>ow</sub> of 0.81.

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### SECTION 13: DISPOSAL CONSIDERATIONS

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**WASTE DISPOSAL METHOD:** This material (as packaged) is considered a hazardous waste (EPA P044). Be aware that the waste owner has responsibility for final disposal. Regulations may also apply to empty containers, liners or rinsate. Laws may change or be reinterpreted; state and local regulations may be different from federal regulations. This information applies to materials as manufactured; contamination or processing may change waste characteristics and requirements.



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### SECTION 14: TRANSPORT INFORMATION

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**DOT HAZARD DESCRIPTION:** Organophosphorous pesticides, liquid, toxic, (dimethoate), flammable, (Hydrocarbon Solvent) 6.1, UN 3017, PG III, Marine Pollutant RQ dimethoate

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### SECTION 15: REGULATORY INFORMATION

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**U.S. FEDERAL REGULATIONS:** N/A

**EPA REGULATIONS:** N/A

**SARA TPQ:** Dimethoate; 500 lbs.

**OSHA REGULATIONS:** N/A

**CERCLA RQ:** Dimethoate; 10 lbs Cyclohexanone: 3,000 lbs

**INDIVIDUAL STATES:** States such as Pennsylvania, New Jersey, California, Vermont, Massachusetts and Rhode Island may all have components of this product listed; consult specific state regulatory requirements for additional information.

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### SECTION 16: OTHER INFORMATION

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This information is provided in good faith, but without express or implied warranty. For additional information, refer to the American Conference of Governmental Industrial Hygienists (ACGIH) documentation of TLV's (Threshold Limit Values) for individual components and the DOT Emergency Response Guidebook.