



Crop Protection Inc.

# Material Safety Data Sheet

Clethodim 240g/L

INFOSAFE NO.: SSCC-XCT011

ISSUE DATE: April 7, 2020

## SECTION 1 - PRODUCT AND COMPANY INFORMATION

PRODUCT NAME: **ADVANTAGE CLETHODIM 240 G/L EC**  
PCP# 33721

COMPANY NAME	<b>Advantage Crop Protection Inc.</b>
COMPANY ADDRESS	Advantage Crop Protection Inc. 601-402 21 <sup>st</sup> Street East Saskatoon, Saskatchewan Canada S7K 0C3
CONTACTING	Product Information: 1-888-931-2530
EMERGENCY PHONE	CANUTEC <b>613-996-6666</b>

## SECTION 2 —COMPOSITION, INFORMATION ON INGREDIENT

CHEMICAL NAME	CAS#	w/v(g/L)
(E,E)-(+) -2-[1-[[3-(3-CHLORO-2-PROPENYL)OXY]IMINO]PROPYL] 5-[2-(ETHYLTHIO)PROPYL]-3-HYDROXY-2-CYCLOHEXAN-1-ONE	99129-21-2	≥240
EMULSIFIERS		CONFIDENTIAL
SOLVENT		CONFIDENTIAL

HAZARD SYMBOLS: NONE LISTED.

RISK PHRASES: NONE LISTED.

## SECTION 3 —PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: LIQUID

COLOR: LIGHT YELLOW

ODOR: SLIGHT PETROLEUM SMELL.

PH: 4.0-7.0

MELTING POINT: N/A

VAPOR PRESSURE: N/A

FLASH POINT: 65°C

SOLUBILITY IN WATER: EMULSIFIES

SPECIFIC GRAVITY/DENSITY: 0.97-0.98

## SECTION 4—HEALTH HAZARD INFORMATION

### EMERGENCY OVERVIEW

CAUTION: KEEP OUT OF REACH OF CHILDREN.

**HEALTH HAZARDS:** MODERATE EYE IRRITANT.

**PHYSICAL HAZARDS:** COMBUSTIBLE, MAY RELEASE TOXIC FUMES IF BURNED.

**ENVIRONMENTAL HAZARDS:** SLIGHTLY TOXIC TO FISH, OTHER WATER ORGANISMS AND BEES.

## SECTION 5 —FIRST AID

**FIRST AID:** IF POISONING OCCURS, IMMEDIATELY CONTACT A DOCTOR OR POISONS INFORMATION CENTRE, AND FOLLOW THE ADVICE GIVEN. SHOW THIS MATERIAL SAFETY DATA SHEET TO A DOCTOR. HAVE THE PRODUCT CONTAINER OR LABEL WITH YOU WHEN CALLING A POISON CONTROL CENTER OR DOCTOR OR GOING FOR TREATMENT.

**SWALLOWED:** WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING. KEEP PATIENT AT REST AND SEEK MEDICAL ADVICE AS ABOVE. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO A SEMI-CONSCIOUS OR UNCONSCIOUS PERSON.

**EYE:** RINSE IMMEDIATELY WITH CLEAN WATER FOR AT LEAST 15 MINUTES AND OBTAIN MEDICAL AID.

**SKIN:** CAREFULLY REMOVE CONTAMINATED CLOTHING. WASH AFFECTED AREAS WITH SOAP AND WATER. SEEK MEDICAL AID IF AT ALL WORRIED.

**INHALED:** REMOVE VICTIM TO FRESH AIR AND KEEP AT REST. OBTAIN MEDICAL ADVICE IF AT ALL WORRIED.

**FIRST AID FACILITIES:** ENSURE WASHING FACILITIES ARE AVAILABLE.

## SECTION 6 —FIRE-FIGHTING MEASURES

**FLASH POINT:** 65°C

**FLAMMABLE LIMITS:** UNKNOWN.

**FIRE AND EXPLOSION HAZARD:** COMBUSTIBLE LIQUID. CAN FORM EXPLOSIVE MIXTURES AT TEMPERATURES AT OR ABOVE THE FLASHPOINT. CAN BURN IN FIRE, RELEASING IRRITATING AND TOXIC GASES DUE TO THERMAL DECOMPOSITION OR COMBUSTION.

**EXTINGUISHING MEDIA:** USE FOAM, DRY CHEMICAL, CARBON DIOXIDE, OR WATER SPRAY WHEN FIGHTING FIRES INVOLVING THIS MATERIAL.

**FIRE FIGHTING INSTRUCTIONS:** EVACUATE NONESSENTIAL PERSONS FROM AREA AND FIGHT FIRE UPWIND FROM A SAFE DISTANCE TO AVOID HAZARDOUS VAPORS AND DECOMPOSITION PRODUCTS. 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 RUN OFF.

**FIRE FIGHTING EQUIPMENT:** FULL FIRE FIGHTING TURN-OUT GEAR INCLUDING SELF-CONTAINED BREATHING EQUIPMENT.

**HAZARDOUS COMBUSTION PRODUCTS:** OXIDES OF NITROGEN AND SULFUR. MAY PRODUCE TOXIC COMPOUNDS OF CHLORINE.

## SECTION 7 —ACCIDENTAL RELEASE MEASURES

### GENERAL INFORMATION:

TAKE APPROPRIATE PROTECTIVE MEASURES. SHUT OFF SOURCE OF LEAK ONLY UNDER SAFE CONDITIONS. EXTINGUISH SOURCES OF IGNITION NEARBY AND DOWNWIND. ENSURE ADEQUATE VENTILATION. WEAR SUITABLE PROTECTIVE CLOTHING AND EQUIPMENT.

**SPILLAGE OR LEAK:**

AVOID CONTACT WITH SPILLED MATERIAL OR CONTAMINATED SURFACES. DURING THE CLEAN UP OPERATION, IT IS RECOMMENDED THAT PROTECTIVE CLOTHING AND EQUIPMENT BE WORN. CONTAIN SPILL AND ABSORB WITH EARTH, SAND, CLAY OR OTHER ABSORBENT MATERIAL AND STORE IN PROPERLY LABELED, SEALED DRUMS FOR SAFE DISPOSAL. DO NOT BURN EMPTY CONTAINERS OR PRODUCT. DEAL WITH ALL SPILLAGES IMMEDIATELY. IF CONTAMINATION OF DRAINS, STREAMS, WATERCOURSES ETC. IS UNAVOIDABLE, WARN THE LOCAL WATER AUTHORITY.

**SECTION 8 — HANDLING AND STORAGE**

KEEP OUT OF REACH OF CHILDREN!

**HANDLING:** USE ONLY IN A WELL-VENTILATED AREA. DO NOT REUSE THIS CONTAINER.

**STORAGE:** KEEP CONTAINER CLOSED WHEN NOT IN USE. KEEP AWAY FROM FOOD, FEED AND DRINKING WATER. STORE IN A WELL VENTILATED, DRY PLACE AWAY FROM HEAT AND OTHER SOURCES OF IGNITION.

**SECTION 9 — EXPOSURE CONTROLS, PERSONAL PROTECTION**

**END USER MUST READ AND OBSERVE ALL PRECAUTION ON PRODUCT LABEL.**

**EYE PROTECTION:**

APPROPRIATE EYE PROTECTION MUST BE WORN WHEN WORKING WITH THIS MATERIAL OR SERIOUS HARM CAN RESULT. WEAR PROTECTIVE EYEWEAR.

**SKIN PROTECTION:**

DO NOT GET ON SKIN OR CLOTH. SKIN CONTACT SHOULD BE AVOIDED BY WEARING PROTECTIVE CLOTHING INCLUDING CHEMICAL RESISTANT GLOVES, LONG SLEEVE SHIRT, LONG PANTS, SHOES AND SOCKS. DISCARD CLOTHING AND OTHER ABSORBENT MATERIALS THAT MAY HAVE BEEN DRENCHED OR HEAVILY CONTAMINATE WITH THIS PRODUCT'S CONCENTRATE. DO NOT REUSE THEM.

**RESPIRATORS:**

THIS MATERIAL MAY BE A RESPIRATORY IRRITANT AND, UNLESS VENTILATION IS ADEQUATE, THE USE OF APPROVED RESPIRATORY PROTECTION IS RECOMMENDED. USE THIS MATERIAL ONLY IN WELL VENTILATED AREA.

**SECTION 10—STABILITY AND REACTIVITY**

**CHEMICAL STABILITY:** UNSTABLE WHEN EXPOSED TO EXTREMES OF PH, ELEVATED TEMPERATURES, OXYGEN OR U.V. LIGHT.

**CONDITIONS TO AVOID:** AVOID TEMPERATURES ABOVE 90°F (35°C), EXPOSURE TO AIR DIRECT SUNLIGHT. KEEP CONTAINERS SEALED TO AVOID EXPOSURE TO AIR.

**INCOMPATIBILITY WITH OTHER MATERIALS:** OXIDIZING MATERIALS.

**HAZARDOUS DECOMPOSITION PRODUCTS:** OXIDES OF HYDROGEN, NITROGEN AND SULFUR.

**HAZARDOUS POLYMERIZATION:** PRODUCT WILL NOT UNDERGO POLYMERIZATION.

**SECTION 11 — TOXICOLOGICAL INFORMATION****ACUTE TOXICITY: (TECHNICAL)**

ORAL LD50 (RAT) - 5,000 MG/KG (FEMALE)

DERMAL LD50 (RAT) - > 5,000 MG/KG

INHALATION LC50 (RAT) - > 2.0 MG/L (4 HOUR)

EYE IRRITATION (RABBIT) - MODERATE

SKIN IRRITATION (RABBIT) - MODERATE

SENSITIZATION (GUINEA PIG) - NON-SENSITIZER



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NOEL 500 PPM/RAT

ADI 0,0025 MG/KG/DIA

**MUTAGENIC DATA:** NO EVIDENCE OF MUTAGENIC EFFECTS

## SECTION 12 —ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:** DO NOT APPLY DIRECTLY TO WATER, OR TO AREAS WHERE SURFACE WATER IS PRESENT, OR TO INTERTIDAL AREAS BELOW THE MEAN HIGH WATER MARK. DO NOT APPLY WHERE RUNOFF IS LIKELY TO OCCUR. DO NOT APPLY WHERE WEATHER CONDITIONS FAVOR DRIFT FROM AREAS TREATED. DO NOT CONTAMINATE WATER WHEN DISPOSING OF EQUIPMENT WASHWATER OR RINSATE.

### FISH TOXICITY:

96 HOUR LC<sub>50</sub>, RAINBOW TROUT – 65 MG/L

96 HOUR LC<sub>50</sub>, BLUEGILL - 120 MG/L

### AVIAN TOXICITY: (TECHNICAL)

DIETARY LC<sub>50</sub>, BOBWHITE QUAIL - >6,000 PPM

DIETARY LC<sub>50</sub>, MALLARD DUCK - >6,000 PPM

BEE TOXICITY: CONTACT LD<sub>50</sub> - >100 UG/BEE

## SECTION 13 —DISPOSAL INFORMATION

**WASTE:** PESTICIDE WASTES ARE ACUTELY HAZARDOUS. DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

**CONTAINER:** TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR BY OTHER PROCEDURES APPROVED BY STATE AND LOCAL AUTHORITIES.

## SECTION 14 —TRANSPORT INFORMATION

NOT A DANGEROUS GOOD, SO HAS NO UN NUMBER, UN PROPER SHIPPING NAME, ADG CLASS, OR ADG PACKING GROUP.

SPECIAL PRECAUTIONS: DO NOT STORE WITH FOODSTUFFS.

**UN NUMBER:** N/A

**DANGEROUS GOODS CLASS:** N/A

## SECTION 15 —REGULATORY INFORMATION

ALL OF THE SIGNIFICANT INGREDIENTS IN THIS FORMULATION ARE TO BE FOUND IN THE PUBLIC ICAMA DATABASE.

## SECTION 16 —OTHER INFORMATION

MSDS CREATION DATE: April 7, 2020

THE DATA IN THIS MATERIAL SAFETY DATA SHEET RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND ARE BASED UPON DATA BELIEVED TO BE CORRECT.

THIS MSDS SUMMARIZES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER SHOULD READ THIS MSDS AND CONSIDER THE INFORMATION IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE INCLUDING IN CONJUNCTION WITH OTHER PRODUCTS.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY.