

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : Pinoxaden 100EC  
CAS-No. : 243973-20-8

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Selective herbicide

#### 1.3 Details of the supplier of the safety data sheet

Company : Advantage Crop Protection Inc.  
620 4th Avenue East  
Regina Saskatchewan  
S4N 4Z5 Canada

Telephone : 1 888 931 2530  
Email: info@ACPI.ag

#### 1.4 Emergency telephone number

Emergency Phone # : 1 613 996 6666

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with Hazardous Products Regulations (HPR) (SOR/2015-17)**

**ADG Classification:** Class 9: Miscellaneous Dangerous Goods.

**UN Number:** 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



**Signal word** Danger

Flammable liquids Category 4

Aspiration Hazard Category 1 Skin

Irritation Category 2 Skin

Sensitisation Category 1

Serious eye irritation Category 2/2A

Specific Target Organ Toxicity -

Single Exposure Category 3

**HAZARD STATEMENT:**

- H227: Combustible liquid.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H360: May damage fertility or the unborn child.

**PREVENTION**

- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.
- P261: Avoid breathing fumes, mists, vapours or spray.
- P262: Do not get in eyes, on skin, or on clothing.
- P271: Use only outdoors or in a well ventilated area.
- P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves, protective clothing and eye or face protection.

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none**

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**SECTION 3: Composition/information on ingredients**

**3.1 Substances**

Pinoxaden	243973-20-8	100g/L
Cloquintocet-mexyl	99607-70-2	25g/L
Other non hazardous ingredients	Classified	to 1 L

For the full text of the H-Statements mentioned in this Section, see Section 16.

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**SECTION 4: First aid measures**

**4.1 Description of first aid**

**measures General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**If inhaled**

Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. In severe cases, symptoms of pulmonary oedema can be delayed up to 48 hours after exposure. Consult a physician.

**In case of skin contact**

Wash gently and thoroughly with warm water (use non-abrasive soap if necessary) for 10-20 minutes or until product is removed. Under running water, remove contaminated clothing, shoes and leather goods (e.g. watchbands and belts) and completely decontaminate them before reuse or discard. If irritation persists, repeat flushing and seek medical attention.

**In case of eye contact**

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 minutes or until the product is removed, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Obtain medical attention immediately. Take special care if exposed person is wearing contact lenses.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

No data available

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

In case of fire, use carbon dioxide, dry chemical or foam. Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. Try to contain spills, minimise spillage entering drains or water courses.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

**5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**5.4 Further information**

No data available

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**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

For personal protection see section 8.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**6.3 Methods and materials for containment and cleaning up**

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive. Keep in a dry place.

Storage class (TRGS 510): 13: Non Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

##### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

##### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- a) Appearance                      Yellow to orange clear liquid
- b) Odour                              aromatic
- c) pH                                  4.0-7.0
- d) Melting  
point/freezing point
- e) Initial boiling point and boiling range

Not applicable

No data available

- f) Vapour pressure                  0.2 hPa at 20 °C  
0.46 hPa at 25 °C
- g) Relative density                1.16 g/cm<sup>3</sup> at 24 °C
- h) Water solubility                0.2 g/l at 25 °C
- i) Partition coefficient: n-octanol/water 3.2 (25 °C)
- j) Auto-ignition temperature
- k) Decomposition temperature

log Pow: 3.2 at 25 °C (77 °F) No data available

335 °C (635 °F) -

- l) Viscosity                          No data available
- m) Explosive properties          No data available
- n) Oxidizing properties          No data available

### 9.2 Other safety information

Solubility In acetone 250, dichloromethane >500, ethyl acetate 130, hexane 1.0, methanol 260, octanol 140, toluene 130 (all in g/l, @ at 25 °C).

Surface tension 45.8 mN/m at 20 °C (68 °F)

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No reactive case reported

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazard reactions reported

### 10.4 Conditions to avoid

avoid extreme heat and sun light

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

Other decomposition products - No data available

In the event of fire: see section 5

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - Rat - 3,129 mg/kg  
LC50 Inhalation - Rat - male - 4 h - 5.0mg/l  
LD50 Dermal - Rat - > 2,000 mg/kg  
Eye contact Moderately Irritating (Rabbit)  
Skin Contact: Moderately Irritating (Rabbit)  
Skin Sensitization: Not a Sensitizer (Guinea Pig)

#### **Germ cell mutagenicity**

No data available

#### **Carcinogenicity**

No compound-related tumors in rats or mice.

#### **Reproductive toxicity**

Teratogenicity: Not teratogenic in rats or rabbits.  
Reproduction: No reproductive effects observed.

#### **Specific target organ toxicity - single exposure**

Inhalation - May cause respiratory irritation.

#### **Specific target organ toxicity - repeated exposure**

No data available

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Ecotoxicity Effects:

Pinoxaden Technical:

Green Algae 5-day EC50 41 ppm

Invertebrate (Water Flea) 48-hour EC50 52 ppm

Fish (Rainbow Trout) 96-hour LC50 10.3 ppm

Birds (Bobwhite Quail) 8-day Dietary LC50 > 5,970 ppml - 72 h

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

This substance is not considered to be very persistent and very bioaccumulating (vPvB).

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

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## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### **Contaminated packaging**

Dispose of as unused product.

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## **SECTION 14: Transport information**

### **IMDG**

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

### **IATA**

UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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## **SECTION 15: Regulatory information**

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

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## **SECTION 16: Other information**

### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Advantage Crop Protection Inc. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. For further information please contact [info@acpi.ag](mailto:info@acpi.ag)