

# DEXVOR™

## 333 EC

### SAFETY DATA SHEET

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/UNDERTAKING

##### Product identifiers

**Product name:** Dexvor™ 333 EC

**PMRA Registration No.:** 35853

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

Crop protection product, herbicide

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

**Company:** Avesta CropScience Inc.

**Address:** Suite 2900, Bentall 5  
550 Burrard Street  
Vancouver, BC, V6C 0A3

**Telephone:** 1-800-607-5443

**Website:** <https://avestacrop.com>

**Emergency telephone number:** 1-800-424-9300

#### SECTION 2: HAZARDS IDENTIFICATION

Flammable liquids	Category 4
Reproductive toxicity	Category 1B
Aspiration hazard	Category 1

**Signal word:** Danger

**Hazard statements:** Combustible liquid  
May damage fertility or the unborn child  
May be fatal if swallowed and enters airways

##### Precautionary statements - prevention

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wear protective gloves, protective clothing, eye protection and face protection.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Precautionary statements - response

If exposed or concerned, get medical advice/attention.

**If swallowed:** Immediately call a poison control centre or doctor.

Do NOT induce vomiting.

**In case of fire:** Use dry chemical, CO<sub>2</sub>, water spray or regular foam to extinguish.

##### Precautionary statements - storage

Store locked up.

Store in a well-ventilated place.

##### Precautionary statements - disposal

Dispose of contents and container at an approved waste disposal plant.

##### Other information

This product may cause irritation to the respiratory tract, eyes, or skin upon exposure. Aspiration into the lungs following ingestion may cause severe lung damage. Avoid release to the environment.

#### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name: Fluroxypyr-meptyl

CAS Number: 81406-37-3

Weight-%: 40-50%

Chemical name: Solvent naphtha (petroleum), heavy aromatic

CAS Number: 64742-94-5

Weight-%: 10-20%

Chemical name: 1-Methyl-2-pyrrolidone

CAS Number: 872-50-4

Weight-%: 10-20%

Chemical name: Castor oil, ethoxylated

CAS Number: 61791-12-6

Weight-%: 5-10%

Chemical name: Solvent naphtha, light aromatic

CAS Number: 64742-95-6

Weight-%: 5-10%

Chemical name: Calcium dodecylbenzenesulfonate

CAS Number: 26264-06-2

Weight-%: 3-5%

Chemical name: Tristyrylphenol ethoxylate

CAS Number: 99734-09-5

Weight-%: 1-5%

## SECTION 4: FIRST-AID MEASURES

**General advice:** Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**If inhaled:** Aspiration into lungs can produce severe lung damage. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, trained personnel should administer oxygen. Get immediate medical attention. Delayed pulmonary edema may occur.

**If on skin:** Wash off immediately with soap and plenty of water while removing contaminated clothing and shoes.

**If in eyes:** Rinse immediately with plenty of water for at least 15 minutes, including under the eyelids. Keep eyes wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.

**If swallowed:** ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE. Do NOT induce vomiting. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical attention.

**Self-protection of the first aider:** Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required.

**Notes to physician:** Because of the danger of aspiration, emesis or gastric lavage should not be employed unless the risk is justified by the presence of additional toxic substances.

## SECTION 5: FIREFIGHTING MEASURES

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, water spray or regular foam.

**Unsuitable extinguishing media:** None known based on information supplied.

**Specific hazards arising from the chemical:** Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray.

**Hazardous combustion products:** Carbon monoxide, carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), hydrogen chloride, hydrogen fluoride.

### Explosion data

**Sensitivity to mechanical impact:** None.

**Sensitivity to static discharge:** Yes.

### Special protective equipment and precautions for firefighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protective equipment.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Take precautionary measures against static discharges. Do not touch or walk through spilled material. Ensure adequate ventilation.

## Methods and material for containment and cleaning up

**Methods for containment:** Stop leak if it can be done without risk. Do not touch or walk through spilled material. Dike far ahead of liquid spill for later disposal.

**Methods for cleaning up:** Take precautionary measures against static discharges. Dike area as needed. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

**Prevention of secondary hazards:** Clean contaminated objects and areas in accordance with environmental regulations.

## SECTION 7: HANDLING AND STORAGE

### Advice on safe handling

Use personal protective equipment. Do not breathe vapour or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes.

### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children. Store away from other materials.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Engineering controls:

Showers

Eyewash stations

Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection:** Tight sealing safety goggles.

**Hand protection:** Wear suitable gloves.

**Skin and body protection:** Wear suitable protective clothing.

**Respiratory protection:** Not normally required under typical handling conditions. Where engineering controls are insufficient to maintain airborne concentrations at acceptable levels, or if irritation occurs, use appropriate respiratory protection as determined by an industrial hygienist.

**General hygiene considerations:** Do not eat, drink or smoke when using this product. Contaminated work clothing should not be taken from the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Form:** Liquid

**Odour:** Aromatic

**Odour threshold:** No data available

**Colour:** Light yellow

**pH value:** 5.07

**Melting point:** No data available

**Boiling temperature:** No data available

**Flash point:** 60.5°C/140.90°F

**Flammability:** No data available

**Dynamic viscosity:** 22.4-23.4 mPa·s at 20°C

**Auto-ignition temperature:** No data available

**Oxidizing properties:** No data available

## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** None under normal use conditions.

**Chemical stability:** Stable under normal conditions.

**Possibility of hazardous reactions:** None under normal conditions.

**Conditions to avoid:** Heat, flames and sparks.

**Incompatible materials:** Strong acids, strong bases, strong oxidizing agents.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide (CO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), hydrogen chloride, hydrogen fluoride.

## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Inhalation:** Specific test data for the substance or mixture is not available. Aspiration into lungs can produce severe lung damage. May cause pulmonary edema. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

**Eye contact:** Specific test data for the substance or mixture is not available. Contact with eyes may cause irritation.

**Skin contact:** Specific test data for the substance or mixture is not available. Repeated exposure may cause skin dryness or cracking. May cause skin irritation.

**Ingestion:** Specific test data for the substance or mixture is not available. Potential for aspiration if swallowed. May cause lung damage if swallowed. Aspiration may cause pulmonary edema and pneumonitis. May be fatal if swallowed and enters airways. May cause gastrointestinal irritation if swallowed.

### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms:** Difficulty breathing. Coughing and/or wheezing. Dizziness.

### Acute toxicity

#### Numerical measures of toxicity

Oral LD50 > 2,000 mg/kg (rat)

Dermal LD50 > 2,000 mg/kg (rat)

Inhalation LC50 > 5.93 mg/L (rat, 4 hr) (dust/mist)

#### Component information:

Chemical name: Fluroxypyr-meptyl

Oral LD50: =3162 mg/kg (rat)

Dermal LD50:

Inhalation LC50:

Chemical name: Solvent naphtha (petroleum), heavy aromatic

Oral LD50: > 5000 mg/kg (rat)

Dermal LD50: > 2000 mg/kg (rabbit)

Inhalation LC50: > 4688 mg/m<sup>3</sup> (vapor) 4h

Chemical name: 1-Methyl-2-pyrrolidone

Oral LD50: = 3914 mg/kg (rat)

Dermal LD50: = 8 g/kg (rabbit)

Inhalation LC50: > 5.1 mg/L (rat) 4 h

Chemical name: Castor oil, ethoxylated

Oral LD50:

Dermal LD50: > 2000 mg/kg (rat)

Inhalation LC50:

Chemical name: Solvent naphtha, light aromatic

Oral LD50: = 8400 mg/kg (rat)

Dermal LD50: > 2000 mg/kg (rabbit)

Inhalation LC50: = 3400 ppm (rat) 4 h

Chemical name: Calcium dodecylbenzenesulfonate

Oral LD50: 1086 - 1980 mg/kg (rat)

Dermal LD50:

Inhalation LC50:

#### Skin corrosion/irritation on basis of test data: Non-irritant.

Product Information	
Method	OECD Test No. 404: Acute dermal irritation/corrosion
Species	Rabbit
Exposure route	Dermal
Results	Non-irritant

#### Serious eye damage/eye irritation: on basis of test data: Non-irritant.

Product Information	
Method	OECD Test No. 405: Acute eye irritation/corrosion
Species	Rat
Exposure route	Eye
Results	Non-irritant

## Respiratory or skin sensitization on basis of test data: Not sensitizing

Product Information	
Method	OECD Test No. 406: Skin sensitization
Species	Guinea pig
Exposure route	Exposure route
Results	Not a skin sensitizer

**Germ cell mutagenicity:** No information available.

**Carcinogenicity:** No information available.

**Reproductive toxicity:** Classification based on data available for ingredients. May damage fertility or the unborn child.

**STOT - single exposure:** No information available.

**STOT - repeated exposure:** No information available.

**Aspiration hazard:** May be fatal if swallowed and enters airways.

## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity: Toxic to aquatic organisms. Avoid release to the environment.

Chemical name: Solvent naphtha (petroleum), heavy aromatic 64742-94-5

Fish: LC50: =19 mg/L (96h, Pimephales promelas)

LC50: =2.34 mg/L (96h, Oncorhynchus mykiss)

LC50: =1740 mg/L (96h, Lepomis macrochirus)

LC50: =45 mg/L (96h, Pimephales promelas)

Crustacea: EC50: =0.95 mg/L (48h, Daphnia magna)

Chemical name: 1-Methyl-2-pyrrolidone 872-50-4

Algae/aquatic plants: EC50: >500 mg/L (72h, Desmodesmus subspicatus)

Fish: LC50: =832 mg/L (96h, Lepomis macrochirus)

LC50: =1072 mg/L (96h, Pimephales promelas)

LC50: =1400 mg/L (96h, Poecilia reticulata)

Crustacea: EC50: =4897 mg/L (48h, Daphnia magna)

Chemical name: Castor oil, ethoxylated 61791-12-6

Fish: LC50: >45 mg/L (96h, Danio rerio)

Chemical name: Solvent naphtha, light aromatic 64742-95-6

Fish: LC50: =9.22 mg/L (96h, Oncorhynchus mykiss)

Crustacea: EC50: =6.14 mg/L (48h, Daphnia magna)

Chemical name: Calcium dodecylbenzenesulfonate 26264-06-2

Fish: LC50: =10.8 mg/L (96h, Oncorhynchus mykiss)

**Persistence and degradability:** No information available.

### Bioaccumulation

Chemical name: Solvent naphtha (petroleum), heavy aromatic 64742-94-5

Partition coefficient: 6.5

Chemical name: 1-Methyl-2-pyrrolidone 872-50-4

Partition coefficient: -0.46

Chemical name: Castor oil, ethoxylated 61791-12-6

Partition coefficient: 4.297

**Mobility:** No information available.

**Other adverse effects:** No information available.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

### Contaminated packaging

Do not reuse empty containers.

## SECTION 14: TRANSPORTATION INFORMATION

### TDG (Canada - Ground Transport): Not regulated

**Shipment by ground (highway or rail) is not regulated as a dangerous good under TDG when transported in compliant packaging. This TDG exemption applies to ground transport only. For air (IATA) and marine (IMDG) transport, this product is regulated as UN3082, Class 9, Packing Group III (environmentally hazardous).**

### IATA (Air Transport)

UN number or ID number: UN3082

UN proper shipping name: Environmentally hazardous substance, liquid, n.o.s.

Transport hazard class(es): 9

Packing group: III

Technical name: Fluroxypyr-meptyl, solvent naphtha (petroleum), heavy aromatic

Special provisions: A97, A158, A197

ERG Code: 9L

Description: UN3082, Environmentally hazardous substance, liquid, n.o.s. (fluroxypyr-meptyl, solvent naphtha (petroleum), heavy aromatic), 9, PG III

### IMDG (Marine Transport)

UN number or ID number: UN3082

UN proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Transport hazard class(es): 9

Packing group: III

Marine pollutant: Yes

Marine pollutant name: Fluroxypyr-meptyl, solvent naphtha (petroleum), heavy aromatic

Special provisions: 274, 335, 969

EmS-No.: F-A, S-F

Description: UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr-meptyl, solvent naphtha (petroleum), heavy aromatic), 9, PG III, marine pollutant.

## SECTION 15: REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable.

The Stockholm Convention on Persistent Organic Pollutants: Not applicable.

The Rotterdam Convention: Not applicable.

#### International Inventories

Contact supplier for inventory compliance status.

## SECTION 16: OTHER INFORMATION

This SDS summarizes our current understanding of the health and safety hazards associated with the product and guides how to handle and use it safely in the workplace. Each user should read this SDS 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 the company. This Safety Data Sheet has been prepared in accordance with the Canadian Hazardous Products Act (HPA) and the Hazardous Products Regulations (HPR) and follows the requirements of WHMIS 2015.