

Version 1.0

Revision Date: 09/21/2021

SDS Number: S00036810957 This version replaces all previous versions.

SECTION 1. IDENTIFICATION

ORONDIS ULTRA Product name

Design code : A21591C

Product Registration number : 32805

Other means of identification: No data available

Manufacturer or supplier's details

Company name of supplier

Syngenta Canada Inc.

140 Research Lane, Research Park Address

Guelph ON N1G 4Z3

Canada

Telephone 1-87-SYNGENTA (1-877-964-3682)

Telefax 1-519-823-0504

E-mail address

Emergency telephone num-

: 1-800-327-8633 (FAST MED)

Recommended use of the chemical and restrictions on use

Recommended use Fungicide

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the Hazardous Products Regulations

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture Mixture

Components

Chemical name	Common Name/Synonym	CAS-No.	Concentration (% w/w)
mandipropamid (ISO)	mandipropamid (ISO)	374726-62-2	23.084
propane-1,2-diol	propane-1,2-diol	57-55-6	>= 5 - < 10 *
oxathiapiprolin (ISO)	oxathiapiprolin (ISO)	1003318-67-9	2.7701

Actual concentration or concentration range is withheld as a trade secret



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SECTION 4. FIRST AID MEASURES

General advice : Have the product container, label or Safety Data Sheet with

you when calling the emergency number, a poison control

center or physician, or going for treatment.

If inhaled : Move the victim to fresh air.

If breathing is irregular or stopped, administer artificial respira-

tion.

Keep patient warm and at rest.

Call a physician or poison control centre immediately.

In case of skin contact : Take off all contaminated clothing immediately.

Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Remove contact lenses.

Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this

container or label.

Nonspecific

Do NOT induce vomiting.

Most important symptoms

and effects, both acute and

Notes to physician

delayed

No symptoms known or expected.

There is no specific antidote available. Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or car-

bon dioxide.

Extinguishing media - large fires

Alcohol-resistant foam

or

Water spray

Unsuitable extinguishing

media

Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during fire-

fighting

As the product contains combustible organic components, fire

will produce dense black smoke containing hazardous products of combustion (see section 10).

Exposure to decomposition products may be a hazard to

health.

Further information : Do not allow run-off from fire fighting to enter drains or water

courses.

Cool closed containers exposed to fire with water spray.

Special protective equipment:

for firefighters

Wear full protective clothing and self-contained breathing ap-

paratus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec: Refer to protective measures listed in sections 7 and 8.



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tive equipment and emergency procedures

Environmental precautions Prevent further leakage or spillage if safe to do so.

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local

/ national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents.

Retain and dispose of contaminated wash water.

SECTION 7. HANDLING AND STORAGE

Advice on safe handling No special protective measures against fire required.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke. For personal protection see section 8.

Conditions for safe storage No special storage conditions required.

Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
mandipropamid (ISO)	374726-62-2	TWA	5 mg/m3	Syngenta
propane-1,2-diol	57-55-6	TWA (Va- pour and aerosols)	50 ppm 155 mg/m3	CA ON OEL
		TWA (aero-sol)	10 mg/m3	CA ON OEL
oxathiapiprolin (ISO)	1003318-67- 9	TWA	5 mg/m3	Supplier

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE **Engineering measures**

> CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THE PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS

CONSULT THE PRODUCT LABEL.

Containment and/or segregation is the most reliable technical

protection measure if exposure cannot be eliminated.



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The extent of these protection measures depends on the

actual risks in use.

Maintain air concentrations below occupational exposure

standards.

Where necessary, seek additional occupational hygiene ad-

vice.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

When workers are facing concentrations above the exposure

limit they must use appropriate certified respirators.

Hand protection

Remarks : No special protective equipment required. Eye protection : No special protective equipment required.

Skin and body protection : No special protective equipment required.

Select skin and body protection based on the physical job

requirements.

Protective measures : The use of technical measures should always have priority

over the use of personal protective equipment.

When selecting personal protective equipment, seek appro-

priate professional advice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : opaque

Colour : off-white to light brown

Odour : No data available

Odour Threshold : No data available

pH : 7.68

Concentration: 1 % w/v

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : Method: Pensky-Martens closed cup

does not flash

Evaporation rate : No data available



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Flammability (solid, gas) : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1.0159 g/cm3 (25 °C)

1.083 g/cm3 (20 °C)

Solubility(ies)

Water solubility : No data available

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : 460 °C

Decomposition temperature : No data available

Viscosity

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : None reasonably foreseeable.
Chemical stability : Stable under normal conditions.

Possibility of hazardous reac-

ions

No dangerous reaction known under conditions of normal use.

Conditions to avoid : No decomposition if used as directed.

Incompatible materials : None known.

Hazardous decomposition

products

No hazardous decomposition products are known.



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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion Inhalation Skin contact Eye contact

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.33 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Components:

mandipropamid (ISO):

Acute oral toxicity : LD50 (Rat, female): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.19 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,050 mg/kg

oxathiapiprolin (ISO):

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.1 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : LD50 (Rat, male and female): > 5,000 mg/kg

Skin corrosion/irritation

Product:

Species : Rabbit

Result : No skin irritation



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Components:

mandipropamid (ISO):

Species : Rabbit

Result : No skin irritation

oxathiapiprolin (ISO):

Species : Rabbit

Result : No skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit

Result : No eye irritation

Components:

mandipropamid (ISO):

Species : Rabbit

Result : No eye irritation

oxathiapiprolin (ISO):

Species : Rabbit

Result : No eye irritation

Respiratory or skin sensitisation

Product:

Test Type : Local lymph node assay (LLNA)

Species : Mouse

Result : Did not cause sensitisation on laboratory animals.

Components:

mandipropamid (ISO):

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

oxathiapiprolin (ISO):

Species : Guinea pig

Result : Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

Components:

mandipropamid (ISO):

Germ cell mutagenicity - : Animal testing did not show any mutagenic effects.



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Assessment

oxathiapiprolin (ISO):

Germ cell mutagenicity -

Assessment

Animal testing did not show any mutagenic effects., In vitro

tests did not show mutagenic effects

Carcinogenicity

Components:

mandipropamid (ISO):

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

oxathiapiprolin (ISO):

Carcinogenicity - Assess-

ment

No evidence of carcinogenicity in animal studies.

Reproductive toxicity

Components:

mandipropamid (ISO):

Reproductive toxicity - As-

sessment

No toxicity to reproduction

oxathiapiprolin (ISO):

Reproductive toxicity - As-

sessment

No toxicity to reproduction

STOT - single exposure

Components:

oxathiapiprolin (ISO):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

Components:

oxathiapiprolin (ISO):

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

mandipropamid (ISO):

Remarks : No adverse effect has been observed in chronic toxicity tests.



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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 80

mg/l

Exposure time: 96 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 11

mg/l

End point: Growth rate Exposure time: 96 h

Components:

mandipropamid (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4.4 mg/l

Exposure time: 96 h

LC50 (Cyprinus carpio (Carp)): 8.63 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Crassostrea virginica (eastern oyster)): 0.97 mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): >

2.5 mg/l

Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 1.3

mg/l

End point: Growth rate Exposure time: 72 h

M-Factor (Acute aquatic tox-

icity)

: 1

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): 0.5 mg/l

NOEC (Daphnia magna (Water flea)): 0.076 mg/l

Exposure time: 32 d

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

Exposure time: 21 d

M-Factor (Chronic aquatic

toxicity)

Toxicity to microorganisms : EC50 (activated sludge): > 100 mg/l

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Exposure time: 3 h

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

oxathiapiprolin (ISO):

Toxicity to fish : LC50 (Cyprinodon variegatus (sheepshead minnow)): > 0.65

mg/l

Exposure time: 96 h

Toxicity to algae/aquatic

plants

ErC50 (Raphidocelis subcapitata (freshwater green alga)): >

0.142 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 0.46 mg/l

Exposure time: 88 d

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 0.75 mg/l

Exposure time: 21 d

NOEC (Americamysis): 0.058 mg/l

Exposure time: 32 d

Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

Components:

mandipropamid (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 4.5 - 26 d

Remarks: Product is not persistent.

oxathiapiprolin (ISO):

Biodegradability : Result: Not readily biodegradable.

Bioaccumulative potential

Components:

mandipropamid (ISO):

Bioaccumulation : Remarks: Low bioaccumulation potential.

Partition coefficient: n-

octanol/water

log Pow: 3.2 (25 °C)

oxathiapiprolin (ISO):



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Bioaccumulation Remarks: Does not bioaccumulate.

Mobility in soil

Components:

mandipropamid (ISO):

Distribution among environmental compartments

Stability in soil

Remarks: Low mobility in soil.

Dissipation time: 26 - 178 d

Percentage dissipation: 50 % (DT50) Remarks: Product is not persistent.

oxathiapiprolin (ISO):

Distribution among environmental compartments

Remarks: Low mobility in soil.

Other adverse effects

Components:

mandipropamid (ISO):

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

oxathiapiprolin (ISO):

Results of PBT and vPvB

assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues Refer to the product label for specific disposal/recycling infor-

mation

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Do not dispose of waste into sewer.

Where possible recycling is preferred to disposal or incinera-

If recycling is not practicable, dispose of in compliance with

local regulations.

Refer to the product label for specific disposal/recycling infor-Contaminated packaging

mation

Empty remaining contents. Triple rinse containers.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

Do not re-use empty containers.



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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(MANDIPROPAMID AND OXATHIAPIPROLIN)

Class : 9
Packing group : III
Labels : 9

IATA-DGR

UN/ID No. : UN 3082

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

(MANDIPROPAMID AND OXATHIAPIPROLIN)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo : 964

aircraft)

Packing instruction (passen-

ger aircraft)

964

Environmentally hazardous : yes

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(MANDIPROPAMID AND OXATHIAPIPROLIN)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

TDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(MANDIPROPAMID AND OXATHIAPIPROLIN)

Class : 9
Packing group : III
Labels : 9
ERG Code : 171

Marine pollutant : yes(MANDIPROPAMID, OXATHIAPIPROLIN)

Remarks : Class 9 Exemption from Part 3, Documentation, and Part 4,

Dangerous Goods Safety Marks, if transported solely on land



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by road vehicle or railway vehicle. 1.45.1. SOR/2008-34

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Warning, contains the allergens 1,2-benzisothiazolin-3-one, 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one

Read the label, authorised under the Pest Control Products Act, prior to using or handling the pest control product

This chemical is a pest control product registered by Health Canada Pest Management Regulatory Agency and is subject to certain labelling requirements under the Pest Control Products Act. These requirements differ from the classification criteria and hazard information required for GHS-consistent safety data sheets. The following is the hazard information required on the pest control product label: There are Canada-specific environmental requirements for handling, use, and disposal of this pest control product that are indicated on the label.

NPRI Components : propan-2-ol

The components of this product are reported in the following inventories:

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

oxathiapiprolin (ISO)

mandipropamid (ISO)

Oxirane, 2-methyl-, polymer with oxirane

2-propenoic acid, 2-methyl-, polymer with methyl 2-methyl-2-propenoate, ester with alpha-methyl-omega-hydroxypoly(oxy-

1,2-ethanediyl

Canadian lists

No substances are subject to a Significant New Activity Notification.

SECTION 16. OTHER INFORMATION

Full text of other abbreviations

CA ON OEL : Ontario Table of Occupational Exposure Limits made under

the Occupational Health and Safety Act.

CA ON OEL / TWA : Time-Weighted Average Limit (TWA)

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for



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Standardisation: DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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