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Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Great Britain and may not meet the regulatory requirements in other countries.

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

1.1 Product identifier

Trade name : TROPHY XL

Unique Formula Identifier

(UFI)

: W1T7-D064-C00N-EVH4

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

Use of the Substance/Mix- : End use herbicide product

ture

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION

Manufacturer/importer

Corteva Agriscience UK Ltd Melbourn Science Park - Cambridge Road - Unit H4, Building H Melbourn Cambridgeshire - SG8 6HB UNITED KINGDOM

Customer Information : +44 8006 89 8899

Number

E-mail address : SDS@corteva.com

1.4 Emergency telephone number

+44 161 88 41235

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Eye irritation, Category 2 H319: Causes serious eye irritation.
Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

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Specific target organ toxicity - single exposure, Category 3, Respiratory system

Short-term (acute) aquatic hazard, Cate-

gory 1

Long-term (chronic) aquatic hazard, Cat-

egory 1

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting ef-

fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms





Signal word : Warning

Hazard statements : H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention:

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protec-

tion.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and wa-

ter.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ at-

tention.

P362 + P364 Take off contaminated clothing and wash it be-

fore reuse.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to a licensed hazardouswaste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide Ethylhexanol

Cloquintocet-mexyl

Additional Labelling

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EUH401 To avoid risks to human health and the environment, comply with the instruc-

tions for use.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Furoxypyr-meptyl	81406-37-3 279-752-9 607-272-00-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	38.94
Halauxifen-methyl	943831-98-9	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 1,000 M-Factor (Chronic aquatic toxicity): 1,000	1.21
Reaction mass of N,N-dimethyl- decan-1-amide and N,N-dime- thyloctanamide	Not Assigned 909-125-3 01-2119974115-37	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system)	>= 40 - < 50
Ethylhexanol	104-76-7 203-234-3 01-2119487289-20	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system)	>= 1 - < 3

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Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt	1335202-81-7 932-231-6 01-2119560592-37	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 1 - < 2.5
Cloquintocet-mexyl	99607-70-2 01-2119381871-32- 0002, 01- 2119381871-32- 0003, 01- 2119403579-35- 0000	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 1 - < 2.5
N-methyl-2-pyrrolidone	872-50-4 212-828-1 606-021-00-7 01-2119472430-46	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 1B; H360D STOT SE 3; H335 (Respiratory system) STOT RE 2; H373	>= 0.1 - < 0.3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Move person to fresh air. If person is not breathing, call an

emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment

advice.

In case of skin contact : Take off contaminated clothing. Wash skin with soap and

plenty of water for 15-20 minutes. Call a poison control center

or doctor for treatment advice.

Wash clothing before reuse. Shoes and other leather items which cannot be decontaminated should be disposed of

properly.

Suitable emergency safety shower facility should be available

in work area.

In case of eye contact : Hold eyes open and rinse slowly and gently with water for 15-

20 minutes. Remove contact lenses, if present, after the first 5

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minutes, then continue rinsing eyes. Call a poison control cen-

ter or doctor for treatment advice.

Suitable emergency eye wash facility should be available in

work area.

If swallowed : Call a poison control center or doctor immediately for treat-

ment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison

control center or doctor.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No specific antidote.

Treatment of exposure should be directed at the control of

symptoms and the clinical condition of the patient.

Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control center or

doctor, or going for treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray

Alcohol-resistant foam

Unsuitable extinguishing me- :

dia

None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Exposure to combustion products may be a hazard to health.

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

courses.

Hazardous combustion prod-

ucts

During a fire, smoke may contain the original material in addi-

tion to combustion products of varying composition which may

be toxic and/or irritating.

Combustion products may include and are not limited to:

Sulphur oxides

Nitrogen oxides (NOx)

Carbon oxides

Hydrogen chloride gas Hydrogen fluoride

5.3 Advice for firefighters

Special protective equipment :

for firefighters

In the event of fire, wear self-contained breathing apparatus.

Use personal protective equipment.

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Specific extinguishing meth-

ods

Remove undamaged containers from fire area if it is safe to do

SO.

Evacuate area.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment. Use water spray to cool unopened containers.

Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.

Use personal protective equipment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2 Environmental precautions

Environmental precautions : If the product contaminates rivers and lakes or drains inform

respective authorities.

Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so.

Prevent spreading over a wide area (e.g. by containment or oil

barriers).

Retain and dispose of contaminated wash water.

Local authorities should be advised if significant spillages can-

not be contained.

Prevent from entering into soil, ditches, sewers, underwater.

See Section 12, Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : 0

Clean up remaining materials from spill with suitable absorb-

ant.

Local or national regulations may apply to releases and disposal of this material, as well as those materials and items

employed in.

For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can

be pumped,

Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction with spilled materials can take place which could lead to over-

pressurization of the container.

Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece).

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

See Section 13, Disposal Considerations, for additional infor-

mation.

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6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Local/Total ventilation : Use with local exhaust ventilation.

Advice on safe handling : Avoid formation of aerosol.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Provide sufficient air exchange and/or exhaust in work rooms.

Do not breathe vapours/dust.

Do not smoke.

Handle in accordance with good industrial hygiene and safety

practice.

Avoid exposure - obtain special instructions before use.

Smoking, eating and drinking should be prohibited in the appli-

cation area.

Do not get on skin or clothing.

Do not breathe vapours or spray mist.

Do not swallow. Do not get in eyes.

Avoid contact with skin and eyes. Keep container tightly closed.

Take care to prevent spills, waste and minimize release to the

environment.

Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage ar- :

eas and containers

Store in a closed container. Containers which are opened must be carefully resealed and kept upright to prevent leak-

age. Keep in properly labelled containers. Store in accordance

with the particular national regulations.

Advice on common storage : Strong oxidizing agents

Packaging material : Unsuitable material: None known.

7.3 Specific end use(s)

Specific use(s) : Plant protection products subject to Regulation (EC) No

1107/2009.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Furoxypyr-meptyl	81406-37-3	Time Weighted Average (TWA):	10 mg/m3	Dow IHG
Ethylhexanol	104-76-7	Long-term expo- sure limit (8-hour TWA reference period)	1 ppm 5.4 mg/m3	GB EH40
		Limit Value - eight hours	1 ppm 5.4 mg/m3	2017/164/EU
	Further inform	nation: Indicative	0.4 mg/m3	
	i dittiei iiiioiii	8-hr TWA	2 ppm	Corteva OEL
N-methyl-2-pyrrolidone	872-50-4	Long-term expo- sure limit (8-hour TWA reference period)	10 ppm 40 mg/m3	GB EH40
	Further inform		bed through the skin. The	anaignad aub
		nose for which there	are concerns that dermal a	
		Short-term expo- sure limit (15-mi- nute reference period)	20 ppm 80 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		Limit Value - eight hours	10 ppm 40 mg/m3	2009/161/EU
	Further inform skin, Indicativ		possibility of significant up	ake through the
		Short term expo- sure limit	20 ppm 80 mg/m3	2009/161/EU
	Further inform skin, Indicativ		possibility of significant up	ake through the
		Long term expo- sure limit	10 ppm 40 mg/m3	2004/37/EC
	Further inform	nation: Skin, Carcino	gens or mutagens	
		Short term exposure limit	20 ppm 80 mg/m3	2004/37/EC
	Further inform	nation: Skin, Carcino	gens or mutagens	
Ethylhexanol 104-76-7		Long-term expo- sure limit (8-hour TWA reference period)	1 ppm 5.4 mg/m3	GB EH40
		Limit Value - eight hours	1 ppm 5.4 mg/m3	2017/164/EU
	Further inform	nation: Indicative	<u>. </u>	1
		8-hr TWA	2 ppm	Corteva OEL
N-methyl-2-pyrrolidone	872-50-4	Long-term expo- sure limit (8-hour TWA reference period)	10 ppm 40 mg/m3	GB EH40

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stances are	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will			
lead to sys	temic toxicity.		T	
	Short-term expo-	20 ppm	GB EH40	
	sure limit (15-mi-	80 mg/m3		
	nute reference			
	period)			
Further info	ormation: Can be absor	bed through the skin. The as	signed sub-	
stances are	e those for which there	are concerns that dermal ab	sorption will	
lead to sys	temic toxicity.			
	Limit Value -	10 ppm	2009/161/EU	
	eight hours	40 mg/m3		
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
SKIII, IIIUICA		00	0000/404/511	
	Short term expo-	20 ppm	2009/161/EU	
	sure limit	80 mg/m3		
	Further information: Identifies the possibility of significant uptake through the			
skin, Indica	skin, Indicative			
	Long term expo-	10 ppm	2004/37/EC	
	sure limit	40 mg/m3		
Further info	Further information: Skin, Carcinogens or mutagens			
	Short term expo-	20 ppm	2004/37/EC	
	sure limit	80 mg/m3		
Further info	Further information: Skin, Carcinogens or mutagens			

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Ethylhexanol	Workers	Inhalation	Long-term systemic effects	12.8 mg/m3
	Workers	Inhalation	Long-term local ef- fects	53.2 mg/m3
	Workers	Inhalation	Acute local effects	53.2 mg/m3
	Workers	Skin contact	Long-term systemic effects	23 mg/kg bw/day
	Workers	Inhalation	Acute local effects	106.4 mg/m3
	Consumers	Inhalation	Long-term systemic effects	2.3 mg/m3
	Consumers	Inhalation	Long-term local ef- fects	26.6 mg/m3
	Consumers	Inhalation	Acute local effects	26.6 mg/m3
	Consumers	Skin contact	Long-term systemic effects	11.4 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1.1 mg/kg bw/day

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment Value	
Ethylhexanol	Fresh water	0.017 mg/l
	Intermittent use/release	0.17 mg/l
	Marine water	0.002 mg/l
	Sewage treatment plant	10 mg/l

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Fresh water sediment	0.284 mg/kg dry weight (d.w.)
Marine sediment	0.028 mg/kg dry weight (d.w.)
Soil	0.047 mg/kg dry weight (d.w.)
Oral (Secondary Poisoning)	55 mg/kg food

8.2 Exposure controls

Engineering measures

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Personal protective equipment

Eye/face protection

Hand protection

Use chemical goggles.

Remarks : Use gloves chemically resistant to this material. Examples of

preferred glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). Viton. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided

by the glove supplier.

Skin and body protection : Use protective clothing chemically resistant to this material.

Selection of specific items such as face shield, boots, apron,

or full body suit will depend on the task.

Respiratory protection : Respiratory protection should be worn when there is a poten-

tial to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced,

or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced, use an ap-

proved air-purifying respirator.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Liquid.
Colour : Yellow
Odour : Mild

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Odour Threshold : Not applicable

pH : 5.16 (23 °C)

Method: pH Electrode 1% Aqueous solution

Melting point/range : Not applicable

Freezing point No data available

Boiling point/boiling range : No data available

Flash point : $> 100 \, ^{\circ}\text{C}$

Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Non-flammable

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

Relative density : No data available

Density : 1.04 g/cm3 (20 °C)

Solubility(ies)

Water solubility : No data available

Auto-ignition temperature : 350 °C

Viscosity

Viscosity, dynamic : 58.7 mPa,s (20 °C)

Viscosity, kinematic : No data available

Explosive properties : Not explosive

Oxidizing properties : No significant increase (>5C) in temperature.

Reference substance: Monoammonium phosphate

9.2 Other information

Surface tension : 29.5 mN/m, 25 °C

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SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

No decomposition if stored and applied as directed.

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Stable under recommended storage conditions.

No hazards to be specially mentioned.

None known.

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid : Strong acids

Strong bases

10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials

Decomposition products can include and are not limited to:

Sulphur oxides

Carbon oxides

Nitrogen oxides (NOx)

Hydrogen fluoride

Hydrogen chloride gas

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

Furoxypyr-meptyl:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.16 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Symptoms: No deaths occurred at this concentration.

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Assessment: The substance or mixture has no acute inhala-

tion toxicity

Remarks: Maximum attainable concentration.

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute dermal

toxicity

Halauxifen-methyl:

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

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

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 3.551 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): > 2,000 mg/kg

Ethylhexanol:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg

Target Organs: Central nervous system

Acute inhalation toxicity : LC50 (Rat): 2.17 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 3,000 mg/kg

Method: OECD Test Guideline 402

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Acute oral toxicity : LD50 (Rat, female): 4,445 mg/kg

Acute dermal toxicity : LD50 (Rat, male and female): > 2,000 mg/kg

Assessment: The substance or mixture has no acute dermal

toxicity

Cloquintocet-mexyl:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Symptoms: No deaths occurred at this concentration.

Assessment: The substance or mixture has no acute oral tox-

icity

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Acute inhalation toxicity : LC50 (Rat, male and female): > 5.42 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

N-methyl-2-pyrrolidone:

Acute oral toxicity : LD50 (Rat, male and female): 4,150 mg/kg

Method: OECD Test Guideline 401

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

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Symptoms: No deaths occurred at this concentration.

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

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Species : Rabbit

Method : OECD Test Guideline 404

Result : No skin irritation

Remarks : Information source: Internal study report

Components:

Furoxypyr-meptyl:

Species : Rabbit

Result : No skin irritation

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Species : Rabbit Result : Skin irritation

Ethylhexanol:

Species : Rabbit Result : Skin irritation

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Species : Rabbit Result : Skin irritation

N-methyl-2-pyrrolidone:

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Species : Rabbit
Result : Skin irritation

Serious eye damage/eye irritation

Product:

Species : Rabbit

Method : OECD Test Guideline 405

Result : Mild eye irritation

Remarks : Information source: Internal study report

Components:

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Species : Rabbit Result : Corrosive

Ethylhexanol:

Species : Rabbit Result : Eye irritation

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Species : Rabbit Result : Corrosive

N-methyl-2-pyrrolidone:

Species : Rabbit Result : Eye irritation

Respiratory or skin sensitisation

Components:

Furoxypyr-meptyl:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Halauxifen-methyl:

Remarks : Did not demonstrate the potential for contact allergy in mice.

Remarks : For respiratory sensitization:

No relevant data found.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Remarks : For similar material(s):

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Ethylhexanol:

Test Type : HRIPT (human repeat insult patch test)

Species : human

Assessment : Does not cause skin sensitisation.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Cloquintocet-mexyl:

Species : Guinea pig

Assessment : May cause sensitisation by skin contact.

N-methyl-2-pyrrolidone:

Species : Guinea pig

Assessment : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

Furoxypyr-meptyl:

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

Halauxifen-methyl:

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Germ cell mutagenicity- As-

sessment

: In vitro genetic toxicity studies were negative.

Ethylhexanol:

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Germ cell mutagenicity- As-

sessment

: In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

Cloquintocet-mexyl:

Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative., Animal genetic

toxicity studies were negative.

N-methyl-2-pyrrolidone:

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Germ cell mutagenicity- As-

sessment

In vitro genetic toxicity studies were negative in some cases and positive in other cases., Animal genetic toxicity studies

were negative.

Carcinogenicity

Components:

Furoxypyr-meptyl:

Carcinogenicity - Assess-

ment

: For similar active ingredient(s)., Fluroxypyr., Did not cause

cancer in laboratory animals.

Halauxifen-methyl:

Carcinogenicity - Assess-

ment

For similar active ingredient(s)., Halauxifen., Did not cause

cancer in laboratory animals.

Ethylhexanol:

Carcinogenicity - Assess-

ment

In laboratory animals, evidence of carcinogenic activity was observed., There is no evidence that these findings are rele-

vant to humans.

Cloquintocet-mexyl:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

N-methyl-2-pyrrolidone:

Carcinogenicity - Assess-

ment

Did not cause cancer in laboratory animals.

Reproductive toxicity

Product:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

Components:

Furoxypyr-meptyl:

Reproductive toxicity - As-

sessment

In animal studies, did not interfere with reproduction.

Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory

animals.

Halauxifen-methyl:

Reproductive toxicity - As-

sessment

: For similar active ingredient(s)., Halauxifen., In animal studies,

did not interfere with reproduction.

Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory

animals.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Reproductive toxicity - As-

sessment

: For similar material(s):, Did not cause birth defects or any

other fetal effects in laboratory animals.

Ethylhexanol:

Reproductive toxicity - As-

sessment

Has caused birth defects in laboratory animals only at doses toxic to the mother.. Has been toxic to the fetus in laboratory

animals at doses toxic to the mother., These concentrations

exceed relevant human dose levels.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Reproductive toxicity - As-

sessment

: In animal studies, did not interfere with reproduction.

Did not cause birth defects or any other fetal effects in labora-

tory animals.

Cloquintocet-mexyl:

Reproductive toxicity - As-

sessment

Did not cause birth defects or any other fetal effects in labora-

tory animals.

N-methyl-2-pyrrolidone:

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on development, based on

animal experiments.

N-methyl pyrrolidone has caused toxic effects to the fetus in laboratory animals at high dose levels with either mild or un-

detectable maternal toxicity.

STOT - single exposure

Product:

Exposure routes : Inhalation

Assessment : May cause respiratory irritation.

Components:

Halauxifen-methyl:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Exposure routes : Inhalation

Assessment : May cause respiratory irritation.

Ethylhexanol:

Exposure routes : Inhalation

Target Organs : Respiratory Tract

Assessment : May cause respiratory irritation.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Cloquintocet-mexyl:

Assessment : Available data are inadequate to determine single exposure

specific target organ toxicity.

N-methyl-2-pyrrolidone:

Exposure routes : Inhalation

Target Organs : Respiratory Tract

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Product:

Assessment : Evaluation of available data suggests that this material is not

an STOT-RE toxicant.

Repeated dose toxicity

Components:

Furoxypyr-meptyl:

Remarks : Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.

Halauxifen-methyl:

Remarks : In animals, effects have been reported on the following or-

gans: Kidney. Liver. Thyroid.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Remarks : For similar material(s):

Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.

Ethylhexanol:

Remarks : In animals, effects have been reported on the following or-

gans: Blood. Kidney. Liver. Spleen.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Remarks : Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Cloquintocet-mexyl:

Remarks : In animals, effects have been reported on the following or-

gans: Liver. Kidney. Thymus. Thyroid. Bladder. Bone marrow.

N-methyl-2-pyrrolidone:

Remarks : Based on available data, repeated exposures are not antici-

pated to cause significant adverse effects.

Aspiration toxicity

Product:

May be harmful if swallowed and enters airways.

Components:

Furoxypyr-meptyl:

Based on physical properties, not likely to be an aspiration hazard.

Halauxifen-methyl:

Based on physical properties, not likely to be an aspiration hazard.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

May be harmful if swallowed and enters airways.

Ethylhexanol:

May be harmful if swallowed and enters airways.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Based on physical properties, not likely to be an aspiration hazard.

Cloquintocet-mexyl:

Based on physical properties, not likely to be an aspiration hazard.

N-methyl-2-pyrrolidone:

Based on physical properties, not likely to be an aspiration hazard.

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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SECTION 12: Ecological information

12.1 Toxicity

Product:

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 15 mg/l

Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Myriophyllum spicatum): 0.0235 mg/l

End point: Growth inhibition

Exposure time: 14 d

Test Type: Growth inhibition

EC50 (Pseudokirchneriella subcapitata (green algae)): 0.166

Exposure time: 72 h

Toxicity to soil dwelling or-

ganisms

LC50: > 1,000 mg/kg Exposure time: 14 d

Species: Eisenia fetida (earthworms)

NOEC: 80 mg/kg Exposure time: 56 d

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

oral LD50: > 2000 mg/kg bodyweight.

Species: Colinus virginianus (Bobwhite quail)

contact LD50: > 200.0 µg/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

oral LD50: > 191.0 µg/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

Ecotoxicology Assessment

Acute aquatic toxicity Very toxic to aquatic life.

Components:

Furoxypyr-meptyl:

Toxicity to fish Remarks: Material is very highly toxic to aquatic organisms on

an acute basis (LC50/EC50 < 0.1 mg/L in the most sensitive

species).

LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.225 mg/l

Exposure time: 96 h

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Test Type: semi-static test

Method: OECD Test Guideline 203 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0.183 mg/l

Exposure time: 48 h Test Type: semi-static test

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

ErC50 (diatom Navicula sp.): 0.24 mg/l

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

EbC50 (alga Scenedesmus sp.): > 0.47 mg/l

Exposure time: 72 h

ErC50 (Selenastrum capricornutum (green algae)): > 1.410

mg/l

Exposure time: 96 h

ErC50 (Myriophyllum spicatum): 0.075 mg/l

Exposure time: 14 d

NOEC (Myriophyllum spicatum): 0.031 mg/l

Exposure time: 14 d

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.32 mg/l

Species: Rainbow trout (Oncorhynchus mykiss)

Toxicity to soil dwelling or-

ganisms

LC50: > 1,000 mg/kg

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

Remarks: Material is practically non-toxic to birds on an acute

basis (LD50 > 2000 mg/kg).

Material is practically non-toxic to birds on a dietary basis

(LC50 > 5000 ppm).

oral LD50: > 2000 mg/kg bodyweight.

Exposure time: 5 d

Species: Colinus virginianus (Bobwhite quail)

dietary LC50: > 5000 mg/kg diet.

Species: Colinus virginianus (Bobwhite quail)

oral LD50: > 100 micrograms/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

contact LD50: > 100 micrograms/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

Halauxifen-methyl:

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Toxicity to fish : Remarks: Material is very highly toxic to aquatic organisms on

an acute basis (LC50/EC50 < 0.1 mg/L in the most sensitive

species).

LC50 (Rainbow trout (Oncorhynchus mykiss)): 2.01 mg/l

Exposure time: 96 h Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): > 3.22 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.12 mg/l

Exposure time: 48 h Test Type: static test

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): > 3.0

mg/l

Exposure time: 96 h

ErC50 (Myriophyllum spicatum): 0.000393 mg/l

End point: Growth rate inhibition

Exposure time: 14 d

M-Factor (Acute aquatic tox-

icity)

1,000

Toxicity to microorganisms : EC50 (activated sludge): > 981 mg/l

Exposure time: 1 d

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.259 mg/l End point: Other

Species: Pimephales promelas (fathead minnow)

Test Type: flow-through test

NOEC: 0.00272 mg/l Exposure time: 36 d

Species: Cyprinodon variegatus (sheepshead minnow)

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 0.484 mg/l

End point: number of offspring

Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

M-Factor (Chronic aquatic

toxicity)

1,000

Toxicity to soil dwelling or-

ganisms

LC50: > 1,000 mg/kg Exposure time: 14 d

End point: mortality

Species: Eisenia fetida (earthworms)

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Toxicity to terrestrial organ-

isms

Remarks: Material is practically non-toxic to birds on an acute

basis (LD50 > 2000 mg/kg).

Material is practically non-toxic to birds on a dietary basis

(LC50 > 5000 ppm).

dietary LC50: > 5,620 ppm

Exposure time: 5 d

Species: Colinus virginianus (Bobwhite quail)

Method: Other guidelines

dietary LC50: > 5,620 ppm

Exposure time: 5 d

Species: Anas platyrhynchos (Mallard duck)

Method: Other guidelines

oral LD50: > 2250 mg/kg bodyweight.

End point: mortality

Species: Colinus virginianus (Bobwhite quail)

contact LD50: > 98.1 µg/bee

Exposure time: 48 h End point: mortality

Species: Apis mellifera (bees)

oral LD50: > 108 μg/bee Exposure time: 48 h End point: mortality

Species: Apis mellifera (bees)

Ecotoxicology Assessment

Acute aquatic toxicity Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Toxicity to fish LC50 (Danio rerio (zebra fish)): 14.8 mg/l

Exposure time: 96 h

aquatic invertebrates

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 7.7 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 16.06

mg/l

Exposure time: 72 h

Ecotoxicology Assessment

Acute aquatic toxicity Toxic to aquatic life.

Ethylhexanol:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): 32 - 37 mg/l

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Exposure time: 96 h

LC50 (Fathead minnow (Pimephales promelas)): 28.2 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Daphnia magna (Water flea)): 35.2 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

EC50 (Daphnia magna (Water flea)): 39 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchneriella subcapitata (green algae)): 11.5

mg/l

End point: Growth rate inhibition

Exposure time: 72 h

Method: OECD Test Guideline 201 or Equivalent

Toxicity to microorganisms EC50 (Bacteria): 256 - 320 mg/l

Exposure time: 16 h

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Toxicity to fish LC50 (Fish): > 1 - 10 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 2.9 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae/aquatic

plants

EC50 (Algae): 29 mg/l Exposure time: 96 h

Test Type: static test

Toxicity to microorganisms EC50 (Bacteria): 550 mg/l

Exposure time: 3 h

Toxicity to fish (Chronic tox-

icity)

NOEC: 0.23 mg/l Exposure time: 72 d

Species: Fish

Test Type: flow-through test

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 1.18 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: flow-through test

Cloquintocet-mexyl:

Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.97 mg/l

Exposure time: 96 h

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Test Type: flow-through test Method: Method Not Specified.

Remarks: As the ester active substance.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 0.82 mg/l

Exposure time: 48 h

Test Type: flow-through test Method: Method Not Specified.

Toxicity to algae/aquatic

plants

EbC50 (alga Scenedesmus sp.): 0.63 mg/l

End point: Biomass Exposure time: 96 h

Method: Method Not Specified.

EbC50 (Lemna minor (duckweed)): > 0.42 mg/l

End point: Biomass Exposure time: 14 d

Method: Method Not Specified.

Toxicity to soil dwelling or-

ganisms

LC50: > 1,000 mg/kg

Species: Eisenia fetida (earthworms)

Toxicity to terrestrial organ-

isms

oral LD50: > 2000 mg/kg bodyweight.

Species: Anas platyrhynchos (Mallard duck)

dietary LC50: > 5200 mg/kg diet.

Exposure time: 8 d

Species: Anas platyrhynchos (Mallard duck)

oral LD50: > 100 micrograms/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

contact LD50: > 100 micrograms/bee

Exposure time: 48 h

Species: Apis mellifera (bees)

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

N-methyl-2-pyrrolidone:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 5,000 mg/l

Exposure time: 96 h Test Type: static test

LC50 (Pimephales promelas (fathead minnow)): 1,072 mg/l

Exposure time: 96 h Test Type: static test

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Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 24 h Test Type: static test

Method: OECD Test Guideline 202 or Equivalent

Toxicity to algae/aquatic

plants

ErC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l

End point: Growth rate inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201 or Equivalent

Toxicity to daphnia and other :

aquatic invertebrates (Chronic toxicity)

NOEC: 12.5 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea)

Test Type: semi-static test

Method: OECD Test Guideline 211 or Equivalent

12.2 Persistence and degradability

Components:

Furoxypyr-meptyl:

Biodegradability : Result: Not biodegradable

Remarks: Material is not readily biodegradable according to

OECD/EEC guidelines.

Biodegradation: 32 % Exposure time: 28 d

Method: OECD Test Guideline 301D or Equivalent

Remarks: 10-day Window: Fail

ThOD : 2.2 kg/kg

Stability in water : Test Type: Hydrolysis

Degradation half life: 454 d

Halauxifen-methyl:

Biodegradability : Result: Not biodegradable

Remarks: For similar active ingredient(s).

Halauxifen.

Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegrada-

bility.

Biodegradation: 7.7 % Exposure time: 28 d

Method: OECD Test Guideline 310 or Equivalent Remarks: 10-day Window: Not applicable

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

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Biodegradability : Remarks: Material is readily biodegradable. Passes OECD

test(s) for ready biodegradability.

Result: Readily biodegradable. Biodegradation: > 80 % Exposure time: 28 d

Method: OECD Test Guideline 301F or Equivalent

Remarks: 10-day Window: Pass

Chemical Oxygen Demand

(COD)

2.890 mg/g

Ethylhexanol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: > 95 % Exposure time: 5 d

Method: OECD Test Guideline 302B or Equivalent

Remarks: 10-day Window: Not applicable

Biodegradation: 68 % Exposure time: 17 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Pass

Biochemical Oxygen De-

mand (BOD)

26 - 70 %

Incubation time: 5 d

75 - 81 %

Incubation time: 10 d

86 - 87 %

Incubation time: 20 d

Chemical Oxygen Demand

(COD)

2.70 kg/kg

`ThOD : 2.95 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)

Sensitiser: OH radicals Rate constant: 1.32E-11 cm3/s

Method: Estimated.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 100 % Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Pass

N-methyl-2-pyrrolidone:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 91 %

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Exposure time: 28 d

Method: OECD Test Guideline 301B or Equivalent

Remarks: 10-day Window: Pass

Concentration: 30 mg/l Result: Readily biodegradable.

Biodegradation: 73 % Exposure time: 28 d

Method: OECD Test Guideline 301C or Equivalent

Remarks: 10-day Window: Not applicable

Result: Readily biodegradable. Biodegradation: > 90 % Exposure time: 8 d

Method: OECD Test Guideline 302B or Equivalent

Remarks: 10-day Window: Not applicable

ThOD : 2.58 kg/kg

Photodegradation : Test Type: Half-life (indirect photolysis)

Sensitiser: OH radicals

Rate constant: 2.199E-11 cm3/s

Method: Estimated.

12.3 Bioaccumulative potential

Components:

Furoxypyr-meptyl:

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)

Bioconcentration factor (BCF): 26

Method: Measured

Partition coefficient: n-oc-

tanol/water

log Pow: 5.04

Method: Measured

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

Halauxifen-methyl:

Bioaccumulation : Species: Lepomis macrochirus (Bluegill sunfish)

Exposure time: 42 d Temperature: 21.8 °C Concentration: 0.00194 mg/l Bioconcentration factor (BCF): 233

Partition coefficient: n-oc-

tanol/water

: log Pow: 3.76

Remarks: Bioconcentration potential is moderate (BCF be-

tween 100 and 3000 or Log Pow between 3 and 5).

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

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Partition coefficient: n-oc-

tanol/water

: log Pow: < 3.44 (20 °C)

Remarks: Bioconcentration potential is moderate (BCF be-

tween 100 and 3000 or Log Pow between 3 and 5).

Ethylhexanol:

Partition coefficient: n-oc-

tanol/water

log Pow: 3.1

Method: Measured

Remarks: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Bioaccumulation : Bioconcentration factor (BCF): 2 - 1,000

Partition coefficient: n-oc-

tanol/water

log Pow: 2.89

Remarks: Bioconcentration potential is moderate (BCF be-

tween 100 and 3000 or Log Pow between 3 and 5).

Cloquintocet-mexyl:

Bioaccumulation : Species: Fish

Bioconcentration factor (BCF): 122 - 621

Partition coefficient: n-oc-

tanol/water

log Pow: 5.2 (25 °C)

pH: 7

N-methyl-2-pyrrolidone:

Partition coefficient: n-oc-

tanol/water

log Pow: -0.38

Method: Measured

Remarks: Bioconcentration potential is low (BCF < 100 or Log

Pow < 3).

12.4 Mobility in soil

Components:

Furoxypyr-meptyl:

Distribution among environ-

mental compartments

Koc: 6200 - 43000

Remarks: Expected to be relatively immobile in soil (Koc >

5000).

Halauxifen-methyl:

Distribution among environmental compartments Koc: 5684

Remarks: Expected to be relatively immobile in soil (Koc >

5000).

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

Distribution among environ-

Koc: 527.3

mental compartments

Remarks: Potential for mobility in soil is low (Koc between 500

and 2000).

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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Ethylhexanol:

Distribution among environ-

mental compartments

Koc: 800

Method: Estimated.

Remarks: Potential for mobility in soil is low (Koc between 500

and 2000).

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Distribution among environ-

mental compartments

Remarks: No relevant data found.

Cloquintocet-mexyl:

Distribution among environ-

mental compartments

Koc: 38070

Method: Estimated.

Remarks: Expected to be relatively immobile in soil (Koc >

5000).

N-methyl-2-pyrrolidone:

Distribution among environmental compartments

Koc: 21

Method: Estimated.

Remarks: Potential for mobility in soil is very high (Koc be-

tween 0 and 50).

Given its very low Henry's constant, volatilization from natural

bodies of water or moist soil is not expected to be an im-

portant fate process.

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Components:

Furoxypyr-meptyl:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Halauxifen-methyl:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide:

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Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Ethylhexanol:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

Cloquintocet-mexyl:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

N-methyl-2-pyrrolidone:

Assessment : This substance is not considered to be persistent, bioaccumu-

lating and toxic (PBT).. This substance is not considered to be

very persistent and very bioaccumulating (vPvB).

12.6 Other adverse effects

Product:

Endocrine disrupting poten-

tial

The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

Components:

Furoxypyr-meptyl:

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Halauxifen-methyl:

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Reaction mass of N.N-dimethyldecan-1-amide and N.N-dimethyloctanamide:

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Ethylhexanol:

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Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Benzenesulfonic acid, C10-13-alkyl derivs., calcium salt:

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

Cloquintocet-mexyl:

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

N-methyl-2-pyrrolidone:

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list

of substances that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : If wastes and/or containers cannot be disposed of according

to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable requ-

lations.

If the material as supplied becomes a waste, follow all applica-

ble regional, national and local laws.

SECTION 14: Transport information

14.1 UN number

ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID.

N.O.S.

(Halauxifen-methyl, Fluroxypyr 1-methylheptyl ester)

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RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Halauxifen-methyl, Fluroxypyr 1-methylheptyl ester)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Halauxifen-methyl, Fluroxypyr 1-methylheptyl ester)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(Halauxifen-methyl, Fluroxypyr 1-methylheptyl ester)

14.3 Transport hazard class(es)

Class Subsidiary risks

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

14.4 Packing group

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F

Remarks : Stowage category A

IATA (Cargo)

Packing instruction (cargo : 964

aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

IATA (Passenger)

Packing instruction (passen: 964

ger aircraft)

Packing instruction (LQ) : Y964
Packing group : III

Labels : Miscellaneous

14.5 Environmental hazards

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758



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ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes(Halauxifen-methyl, Fluroxypyr 1-methylheptyl ester)

14.6 Special precautions for user

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH Candidate list of substances of very high : N-methyl-2-pyrrolidone

concern (SVHC) for Authorisation

The Persistent Organic Pollutants Regulations (retained : Not applicable

Regulation (EU) 2019/1021 as amended for Great Britain

airi)

Regulation (EC) No 1005/2009 on substances that de- : Not applicable

plete the ozone layer

UK REACH List of substances subject to authorisation : Not applicable

(Annex XIV)

Seveso III: Directive 2012/18/EU of the Euro- E1 ENVIRONMENTAL HAZARDS pean Parliament and of the Council on the control of major-accident hazards involving dan-

gerous substances.

Registration Number : MAPP 20820

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009.

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Refer to the label for exposure assessment information.

SECTION 16: Other information

Full text of H-Statements

H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.

H332 : Harmful if inhaled.

H335 : May cause respiratory irritation. H360D : May damage the unborn child.

H373 : May cause damage to organs through prolonged or repeated

exposure.

H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.H412 : Harmful to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Acute : Short-term (acute) aquatic hazard
Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Eye Irrit. : Eye irritation

Repr. : Reproductive toxicity

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

2004/37/EC : Europe. Directive 2004/37/EC on the protection of workers

from the risks related to exposure to carcinogens or mutagens

at work

2009/161/EU : Europe. COMMISSION DIRECTIVE 2009/161/EU establishing

a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending

Commission Directive 2000/39/EC

2017/164/EU : Europe. Commission Directive 2017/164/EU establishing a

fourth list of indicative occupational exposure limit values

Corteva OEL : Corteva Occupational Exposure Limit
Dow IHG : Dow Industrial Hygiene Guideline

GB EH40 : UK. EH40 WEL - Workplace Exposure Limits

2004/37/EC / STEL : Short term exposure limit 2004/37/EC / TWA : Long term exposure limit 2009/161/EU / TWA : Limit Value - eight hours 2009/161/EU / STEL : Short term exposure limit 2017/164/EU / TWA : Limit Value - eight hours

Corteva OEL / TWA : 8-hr TWA

Dow IHG / TWA : Time Weighted Average (TWA):

GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM American Society for the Testing of Materials; ECx - Concentration associated with x% response;
EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response;
GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air

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Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; 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; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations.

Further information

Classification of the mixture:		Classification procedure:	
Eye Irrit. 2	H319	Based on product data or assess- ment	
Skin Sens. 1	H317	Calculation method	
STOT SE 3	H335	Based on product data or assessment	
Aquatic Acute 1	H400	Based on product data or assessment	
Aquatic Chronic 1	H410	Calculation method	

Product code: GF-2819

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.

GB / 6N