

SAFETY DATA SHEET

FOXTROT®



Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Section 1: Identification

Product name : FOXTROT®

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

Restrictions on use : Use as recommended by the label.

Manufacturer or supplier's details

Company : FMC New Zealand Ltd

Address : Level 5, 3 Te Kahu Way, Mount Wellington
1060 Auckland
New Zealand

Telephone : +640800658080

Telefax : (09)-271-2961

E-mail address : SDS-Info@fmc.com

Emergency telephone number : For leak, fire, spill or accident emergencies, call:
0800 734 607 (Ixm)

Medical emergency:
0800 764 766 (NZ Poisons Information Centre)
0800 111174 (24 hour Medical Emergency)
0800 387668 (Transport Emergency)

Section 2: Hazard identification

GHS Classification

Skin sensitisation : Category 1

Specific target organ toxicity - repeated exposure : Category 2

Aspiration hazard : Category 1

Hazardous to the aquatic environment - chronic hazard : Category 1

Hazardous to the environment : Hazardous to soil organisms

GHS label elements

SAFETY DATA SHEET

FOXTROT®



Version 1.1 Revision Date: 24.03.2025 SDS Number: 50000610 Date of last issue: 22.03.2021
Date of first issue: 22.03.2021

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H373 May cause damage to organs through prolonged or repeated exposure.
H410 Very toxic to aquatic life with long lasting effects.
H423 Harmful to the soil environment.

Precautionary statements

: P103 Read carefully and follow all instructions.

Prevention:

P260 Do not breathe mist or vapours.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P314 Get medical advice/ attention if you feel unwell.
P331 Do NOT induce vomiting.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

Section 3: Composition/information on ingredients

Substance / Mixture

: Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
fenoxaprop-P-ethyl (ISO)	71283-80-2	>= 2.5 -< 10
Cloquintocet-mexyl	99607-70-2	>= 2.5 -< 10

SAFETY DATA SHEET

FOXTROT®



Version 1.1 Revision Date: 24.03.2025 SDS Number: 50000610 Date of last issue: 22.03.2021
Date of first issue: 22.03.2021

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	>= 30 -< 50
Alcohols, C9-11, ethoxylated	68439-46-3	>= 1 -< 10
glycerol	56-81-5	>= 1 -< 10

Section 4: First-aid measures

- General advice : Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Remove to fresh air.
If unconscious, place in recovery position and seek medical advice.
If experiencing any discomfort, immediately remove from exposure. Light cases: Keep person under surveillance. Get medical attention immediately if symptoms develop. Serious cases: Get medical attention immediately or call for an ambulance.
- In case of skin contact : If on clothes, remove clothes.
If on skin, rinse well with water.
Wash off with soap and plenty of water.
Get medical attention immediately if irritation develops and persists.
- In case of eye contact : Flush eyes with water as a precaution.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Do not induce vomiting without medical advice.
Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.
- Most important symptoms and effects, both acute and delayed : The product contains petroleum distillates, which may pose an aspiration pneumonia hazard.
May be fatal if swallowed and enters airways.
May cause an allergic skin reaction.
May cause damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
Avoid inhalation, ingestion and contact with skin and eyes.
If potential for exposure exists refer to Section 8 for specific personal protective equipment.
- Notes to physician : Treat symptomatically.

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	24.03.2025	50000610	22.03.2021
			Date of first issue: 22.03.2021

Immediate medical attention is required in case of ingestion.

Section 5: Fire-fighting measures

- Suitable extinguishing media : Dry chemical, CO₂, water spray or regular foam.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet
Do not spread spilled material with high-pressure water streams.
- Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Fire may produce irritating, corrosive and/or toxic gases.
Carbon oxides
Nitrogen oxides (NO_x)
Hydrogen chloride
Chlorine compounds
- Specific extinguishing methods : 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.
- Special protective equipment for firefighters : Firefighters should wear protective clothing and self-contained breathing apparatus.
- Hazchem Code : 3Z

Section 6: Accidental release measures

- Personal precautions, protective equipment and emergency procedures : Evacuate personnel to safe areas.
Use personal protective equipment.
If it can be safely done, stop the leak.
Do not touch or walk through the spilled material.
Never return spills in original containers for re-use.
Mark the contaminated area with signs and prevent access to unauthorized personnel.
Only qualified personnel equipped with suitable protective equipment may intervene.
- Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Keep in suitable, closed containers for disposal.

Section 7: Handling and storage

SAFETY DATA SHEET

FOXTROT®



Version 1.1	Revision Date: 24.03.2025	SDS Number: 50000610	Date of last issue: 22.03.2021 Date of first issue: 22.03.2021
----------------	------------------------------	-------------------------	---

- Advice on protection against fire and explosion : Normal measures for preventive fire protection.
- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Provide sufficient air exchange and/or exhaust in work rooms.
Dispose of rinse water in accordance with local and national regulations.
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.
- Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.
Remove and wash contaminated clothing and gloves, including the inside, before re-use.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Protect against strong heat from sunshine or other source, e.g. fire.
Store in closed, labelled containers. The storage room should be constructed of incombustible material, closed, dry, ventilated and with impermeable floor, without access of unauthorised persons or children. The room should only be used for storage of chemicals. Food, drink, feed and seed should not be present. A hand wash station should be available.
- Recommended storage temperature : 5 - 30 °C
- Further information on storage stability : No decomposition if stored and applied as directed.

Section 8: Exposure controls/personal protection

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
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SAFETY DATA SHEET



FOXTROT®

Version 1.1 Revision Date: 24.03.2025 SDS Number: 50000610 Date of last issue: 22.03.2021
Date of first issue: 22.03.2021

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified	64742-94-5	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH
glycerol	56-81-5	WES-TWA (Mist)	10 mg/m3	NZ OEL

Personal protective equipment

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection
Material : Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles

Skin and body protection : Impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Protective measures : Plan first aid action before beginning work with this product.
Always have on hand a first-aid kit, together with proper instructions.
Wear suitable protective equipment.
When using do not eat, drink or smoke.

In the context of professional plant protection use as recommended, the end user must refer to the label and the instructions for use.

Section 9: Physical and chemical properties

Physical state : liquid

Form : liquid

Colour : white

Odour : Aromatic hydrocarbon

pH : 6.3 (25 °C)
Concentration: 1 %

Melting point/freezing point : < 0 °C

SAFETY DATA SHEET

FOXTROT®



Version 1.1	Revision Date: 24.03.2025	SDS Number: 50000610	Date of last issue: 22.03.2021 Date of first issue: 22.03.2021
----------------	------------------------------	-------------------------	---

Boiling point/boiling range	:	ca. 100 °C
Flash point	:	> 100 °C
		Method: Pensky-Martens closed cup
Evaporation rate	:	Not available for this mixture.
Flammability (liquids)	:	may be ignitable
Self-ignition	:	> 400 °C
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapour pressure	:	Not available for this mixture.
Relative vapour density	:	Not available for this mixture.
Density	:	1.03 g/cm ³
Solubility(ies)		
Water solubility	:	No data available
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	log Pow: 4.28 Fenoxaprop-P-ethyl
Decomposition temperature	:	not determined
Viscosity		
Viscosity, dynamic	:	140 - 2,200 mPa,s (20 °C)
Viscosity, kinematic	:	136 - 2136 mm ² /s (20 °C)
Explosive properties	:	Not explosive Method: Regulation (EC) No. 440/2008, Annex, A.14
Oxidizing properties	:	Non-oxidizing Method: Regulation (EC) No. 440/2008, Annex, A.21
Particle size	:	Not applicable

Section 10: Stability and reactivity

SAFETY DATA SHEET

FOXTROT®



Version 1.1	Revision Date: 24.03.2025	SDS Number: 50000610	Date of last issue: 22.03.2021 Date of first issue: 22.03.2021
----------------	------------------------------	-------------------------	---

Reactivity	: No decomposition if stored and applied as directed.
Chemical stability	: No decomposition if stored and applied as directed.
Possibility of hazardous reactions	: No decomposition if stored and applied as directed.
Conditions to avoid	: Heat, flames and sparks. Protect from frost, heat and sunlight. Heating of the product will produce harmful and irritant vapours.
Incompatible materials	: Avoid strong acids, bases, and oxidizers
Hazardous decomposition products	: Stable under recommended storage conditions.

Section 11: Toxicological information

Acute toxicity

Based on available data, the classification criteria are not met.

Product:

Acute oral toxicity	: LD50 (Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 425 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	: LC50 (Rat, male and female): > 4.96 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is minimally toxic after short term inhalation.
Acute dermal toxicity	: LD50 (Rat, male and female): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity

Components:

fenoxaprop-P-ethyl (ISO):

Acute oral toxicity	: LD50 (Rat): 3,150 - 4,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat): > 1.224 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inhalation toxicity

FOXTROT®

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: EPA OPP 81-2
Assessment: The substance or mixture has no acute dermal toxicity

Cloquintocet-mexyl:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat, male and female): > 0.935 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The component/mixture is moderately toxic after short term inhalation.

Acute dermal toxicity : LD50 Dermal (Rat, male and female): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Acute oral toxicity : LD50 (Rat, male and female): > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: Based on data from similar materials

Acute inhalation toxicity : LC50 (Rat): > 4.688 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OECD Test Guideline 402
Assessment: The substance or mixture has no acute dermal toxicity

Alcohols, C9-11, ethoxylated:

Acute oral toxicity : LD50 (Rat): 1,192 mg/kg

Acute inhalation toxicity : Remarks: No data available

glycerol:

Acute oral toxicity : LD50 (Rat, female): 11,500 mg/kg

Acute inhalation toxicity : LC0 (Rat, male): 11 mg/l
Exposure time: 1 h
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56,750 mg/kg

SAFETY DATA SHEET

FOXTROT®



Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Skin corrosion/irritation

Based on available data, the classification criteria are not met.

Product:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: Mild skin irritant

Components:

fenoxaprop-P-ethyl (ISO):

Assessment	: No skin irritation
Method	: EPA OPP 81-5
Remarks	: Minimal effects that do not meet the threshold for classification.

Cloquintocet-mexyl:

Species	: Rabbit
Assessment	: No skin irritation
Method	: OECD Test Guideline 404
Remarks	: Minimal effects that do not meet the threshold for classification.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species	: Rabbit
Assessment	: Repeated exposure may cause skin dryness or cracking.
Result	: No skin irritation
Remarks	: Minimal effects that do not meet the threshold for classification. Based on data from similar materials

Alcohols, C9-11, ethoxylated:

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation
Remarks	: Based on data from similar materials

glycerol:

Species	: Rabbit
Result	: No skin irritation

Serious eye damage/eye irritation

Based on available data, the classification criteria are not met.

Product:

Species	: Rabbit
Result	: No eye irritation
Method	: OECD Test Guideline 405

SAFETY DATA SHEET

FOXTROT®



Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Remarks : May cause mild irritation.
Minimal effects that do not meet the threshold for classification.

Components:

fenoxaprop-P-ethyl (ISO):

Assessment : No eye irritation
Method : EPA OPP 81-4
Remarks : Minimal effects that do not meet the threshold for classification.

Remarks : Product dust may be irritating to eyes, skin and respiratory system.

Cloquintocet-mexyl:

Species : Rabbit
Assessment : No eye irritation
Method : OECD Test Guideline 405
Remarks : Minimal effects that do not meet the threshold for classification.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rabbit
Assessment : No eye irritation
Remarks : Minimal effects that do not meet the threshold for classification.
Based on data from similar materials

Alcohols, C9-11, ethoxylated:

Species : Bovine cornea
Result : Eye irritation
Remarks : Based on data from similar materials

glycerol:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Based on available data, the classification criteria are not met.

Product:

Test Type : Local lymph node assay (LLNA)
Exposure routes : Skin contact
Species : Mouse

SAFETY DATA SHEET



FOXTROT®

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Method : OECD Test Guideline 429
Result : May cause sensitisation by skin contact.

Components:

fenoxaprop-P-ethyl (ISO):

Method : EPA OPP 81-6
Result : May cause sensitisation by skin contact.

Cloquintocet-mexyl:

Species : Guinea pig
Method : OECD Test Guideline 429
Result : The product is a skin sensitizer, sub-category 1B.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Test Type : Maximisation Test
Species : Guinea pig
Result : Not a skin sensitizer.
Remarks : Based on data from similar materials

Alcohols, C9-11, ethoxylated:

Test Type : Maximisation Test
Species : Guinea pig
Result : Does not cause skin sensitisation.
Remarks : Based on data from similar materials

Chronic toxicity

Germ cell mutagenicity

Based on available data, the classification criteria are not met.

Product:

Germ cell mutagenicity - Assessment : Contains no ingredient listed as a mutagen

Components:

Cloquintocet-mexyl:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative

Test Type: gene mutation test
Test system: Chinese hamster lung cells
Method: OECD Test Guideline 476
Result: negative

Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster ovary cells
Method: OECD Test Guideline 473

SAFETY DATA SHEET

FOXTROT®



Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test
Species: Chinese hamster (male and female)
Application Route: Oral
Method: OECD Test Guideline 474
Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Bone marrow chromosome aberration
Species: Rat
Application Route: inhalation (vapour)
Result: negative

Alcohols, C9-11, ethoxylated:

Genotoxicity in vitro : Test Type: reverse mutation assay
Method: OECD Test Guideline 471
Result: negative
Remarks: Based on data from similar materials

Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test
Result: negative
Remarks: Based on data from similar materials

Germ cell mutagenicity - Assessment : In vitro tests did not show mutagenic effects

glycerol:

Genotoxicity in vitro : Test Type: reverse mutation assay
Result: negative

Carcinogenicity

Based on available data, the classification criteria are not met.

Product:

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

FOXTROT®

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Components:**Cloquintocet-mexyl:**

Species	: Mouse, male
Application Route	: Oral
Exposure time	: 18 month(s)
Dose	: 1.1, 11, 111, 583 mg/kg
NOAEL	: 111 mg/kg body weight
Result	: negative

Carcinogenicity - Assessment	: Weight of evidence does not support classification as a carcinogen
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Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species	: Rat, male and female
Application Route	: inhalation (vapour)
Exposure time	: 12 month(s)
NOAEC	: 1.8 mg/l
Result	: negative
Remarks	: Based on data from similar materials

Carcinogenicity - Assessment	: Not classifiable as a human carcinogen.
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glycerol:

Species	: Rat
Application Route	: Oral
Exposure time	: 2 years Years
Result	: negative

Reproductive toxicity

Based on available data, the classification criteria are not met.

Product:

Reproductive toxicity - Assessment	: Contains no ingredient listed as toxic to reproduction
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Components:**Cloquintocet-mexyl:**

Effects on fertility	: General Toxicity F1: NOAEL: 420 mg/kg body weight Fertility: NOAEL: 830 mg/kg body weight Method: OECD Test Guideline 416 Result: No effects on fertility and early embryonic development were detected.
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Effects on foetal development	: Species: Rabbit Application Route: Oral Dose: 0, 10, 60, 300 mg/kg bw/d General Toxicity Maternal: NOAEL: 60 mg/kg body weight Teratogenicity: NOAEL: 300 mg/kg body weight
-------------------------------	---

SAFETY DATA SHEET



FOXTROT®

Version 1.1	Revision Date: 24.03.2025	SDS Number: 50000610	Date of last issue: 22.03.2021 Date of first issue: 22.03.2021
----------------	------------------------------	-------------------------	---

Developmental Toxicity: NOAEL: 60 mg/kg body weight
Method: OECD Test Guideline 414
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

Alcohols, C9-11, ethoxylated:

Effects on fertility : Test Type: Two-generation study
Species: Rat, male and female
Application Route: Dermal
Dose: 0, 10, 100, 250 mg/kg bw
General Toxicity - Parent: NOAEL: \geq 250 mg/kg bw/day
Result: negative

Effects on foetal development : Test Type: reproductive and developmental toxicity study
Species: Rat
Application Route: Dermal
Dose: 0, 10, 100, 250 mg/kg bw
General Toxicity Maternal: NOAEL: \geq 250 mg/kg bw/day
Developmental Toxicity: NOAEL: \geq 250 mg/kg bw/day
Result: negative

Reproductive toxicity - Assessment : Weight of evidence does not support classification for reproductive toxicity

glycerol:

Effects on fertility : Test Type: Two-generation study
Species: Rat
Application Route: Oral
Result: negative

Effects on foetal development : Test Type: Two-generation study
Species: Rat
Application Route: Oral
Result: negative

STOT - single exposure

Based on available data, the classification criteria are not met.

Product:

Remarks : No significant adverse effects were reported

Components:

Cloquintocet-mexyl:

Remarks : No significant adverse effects were reported

Alcohols, C9-11, ethoxylated:

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Components:**fenoxaprop-P-ethyl (ISO):**

Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Cloquintocet-mexyl:

Target Organs : Bladder
Assessment : The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2.

Repeated dose toxicity**Components:****fenoxaprop-P-ethyl (ISO):**

Species : Rat
NOAEL : 0.7 mg/kg
Application Route : Ingestion
Exposure time : 90 d
Symptoms : Increased kidneys weight, increased liver weight

Cloquintocet-mexyl:

Species : Rat, male
NOAEL : 3.77 mg/kg
Application Route : Oral
Exposure time : 2 y
Dose : 0.37, 3.8, 38, 75 mg/kg
Method : OECD Test Guideline 451

Species : Rat, male and female
NOAEL : 9.66 - 10.2 mg/kg
Application Route : Oral
Exposure time : 90 d
Dose : 2.0, 9.7, 64, 384 mg/kg
Target Organs : Bladder

Species : Rat, male and female
NOAEL : 1,000 mg/kg
Application Route : Skin contact
Exposure time : 28 d
Dose : 0, 50, 200 and 1000 mg/kg
Method : OECD Test Guideline 410

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Species : Rat, male and female
NOAEC : 0.9 - 1.8 mg/l

SAFETY DATA SHEET



FOXTROT®

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Application Route : inhalation (vapour)
Exposure time : 12 Months

Alcohols, C9-11, ethoxylated:

Species : Rat, male and female
NOAEL : ≥ 500 mg/kg bw/day
Application Route : Ingestion
Exposure time : 90 d
Dose : 0, 15, 50, 150, 500 mg/kg bw/d
Remarks : Based on data from similar materials

glycerol:

Species : Rat
LOAEL : 1 mg/kg
Application Route : Inhalation
Exposure time : 14 d
Dose : 0, 1, 1.93, 3.91 mg/L
Symptoms : respiratory tract irritation, Fatality

Species : Rat
NOAEL : 0.165 mg/l
LOAEL : 0.662 mg/l
Application Route : Inhalation
Exposure time : 13 w
Dose : 0, 0.033, 0.165, 0.662 mg/L
Symptoms : respiratory tract irritation

Aspiration toxicity

May be fatal if swallowed and enters airways.

Product:

May be fatal if swallowed and enters airways.

Components:

Cloquintocet-mexyl:

No aspiration toxicity classification

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

May be fatal if swallowed and enters airways.

Experience with human exposure

Components:

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Skin contact : Symptoms: Repeated exposure may cause skin dryness or cracking.

SAFETY DATA SHEET

FOXTROT®



Version 1.1	Revision Date: 24.03.2025	SDS Number: 50000610	Date of last issue: 22.03.2021 Date of first issue: 22.03.2021
----------------	------------------------------	-------------------------	---

Further information

Product:

Remarks : Irritation and allergic reactions.

Components:

fenoxaprop-P-ethyl (ISO):

Remarks : No data available

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Remarks : Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anaesthetic and may have other central nervous system effects. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis. Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Section 12: Ecological information

Ecotoxicity

Product:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 3.83 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 3.1 mg/l
aquatic invertebrates : Exposure time: 48 h

Toxicity to algae/aquatic : EC50 (Desmodesmus subspicatus (green algae)): 1.85 mg/l
plants : Exposure time: 72 h

NOEC (Lemna gibba (duckweed)): 0.98 mg/l
Exposure time: 7 d

LC50 (Lemna gibba (duckweed)): 4.3 mg/l
Exposure time: 7 d

Toxicity to soil dwelling or : LC50 (Eisenia fetida (earthworms)): 356.6 mg/kg
organisms : Exposure time: 14 d

Toxicity to terrestrial organ- : LD50 (Apis mellifera (bees)): 599 µg/bee
isms : Exposure time: 72 h
End point: Acute contact toxicity

LD50 (Apis mellifera (bees)): 356 µg/bee
Exposure time: 48 h
End point: Acute oral toxicity

SAFETY DATA SHEET

FOXTROT®



Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

LD50 (Colinus virginianus (Bobwhite quail)): > 2,250 mg/kg

Ecotoxicology Assessment

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

Toxicity Data on Soil : Harmful to the soil environment.

Components:

fenoxaprop-P-ethyl (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.31 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.97 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : IC50 (Desmodesmus subspicatus (green algae)): 0.51 mg/l
Exposure time: 72 h

EC50 (Lemna gibba (duckweed)): 0.039 mg/l
Exposure time: 14 d

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0.076 mg/l
Exposure time: 21 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.16 mg/l
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 24.8 mg/kg
Exposure time: 14 d

Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): > 2,000 mg/kg

LD50 (Anas platyrhynchos (Mallard duck)): > 2,000 mg/kg

LD50 (Apis mellifera (bees)): > 100 µg/bee
Exposure time: 48 h

Cloquintocet-mexyl:

Toxicity to fish : LC50 (Salmo gairdneri): > 76 mg/l
Exposure time: 96 h

LC50 (Ictalurus punctatus (channel catfish)): 14 mg/l

SAFETY DATA SHEET



FOXTROT®

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	24.03.2025	50000610	22.03.2021
			Date of first issue: 22.03.2021

		Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 0.63 mg/l Exposure time: 96 h Test Type: static test
		NOEC (Desmodesmus subspicatus (green algae)): 0.09 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 32 mg/l End point: reproduction Exposure time: 21 d Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1
Toxicity to microorganisms	:	EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Toxicity to soil dwelling organisms	:	LC50 (Eisenia fetida (earthworms)): 1,000 mg/kg Exposure time: 14 d Method: OECD Test Guideline 207
Toxicity to terrestrial organisms	:	LD50 (Colinus virginianus (Bobwhite quail)): > 2,000 mg/kg NOEC (Colinus virginianus (Bobwhite quail)): 500 mg/kg LD50 (Anas platyrhynchos (Mallard duck)): > 2,000 mg/kg NOEC (Anas platyrhynchos (Mallard duck)): 500 mg/kg LD50 (Apis mellifera (bees)): >100 ug/bee Exposure time: 48 d End point: Acute oral toxicity LD50 (Apis mellifera (bees)): >100 ug/bee Exposure time: 48 d End point: Acute contact toxicity

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

SAFETY DATA SHEET



FOXTROT®

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	24.03.2025	50000610	22.03.2021
			Date of first issue: 22.03.2021

Toxicity to fish	:	LL50 (Oncorhynchus mykiss (rainbow trout)): 2 - 5 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EL50 (Daphnia magna (Water flea)): 1.4 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EL50 (Pseudokirchneriella subcapitata (green algae)): 1 - 3 mg/l Exposure time: 24 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	EL50 (Daphnia magna (Water flea)): 0.89 mg/l Exposure time: 21 d Method: OECD Test Guideline 211
Toxicity to microorganisms	:	LL50 (Tetrahymena pyriformis): 677.9 mg/l Exposure time: 72 h Test Type: Growth inhibition

Alcohols, C9-11, ethoxylated:

Toxicity to fish	:	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	:	Remarks: No data available
Toxicity to algae/aquatic plants	:	Remarks: No data available

glycerol:

Toxicity to fish	:	LC50 (Fish): 885 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1,955 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Scenedesmus capricornutum (fresh water algae)): 2,900 mg/l Exposure time: 192 h
Toxicity to microorganisms	:	EC10 (Pseudomonas putida): 10,000 mg/l Exposure time: 16 h

Persistence and degradability

Product:

Biodegradability	:	Remarks: Product contains minor amounts of not readily biodegradable components, which may not be degradable in waste water treatment plants.
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Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Components:**fenoxaprop-P-ethyl (ISO):**

Biodegradability : Result: Not readily biodegradable.

Cloquintocet-mexyl:

Biodegradability : Result: Not readily biodegradable.

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 58.6 %
Exposure time: 28 d
Method: OECD Test Guideline 301F
Remarks: Based on data from similar materials

Alcohols, C9-11, ethoxylated:

Biodegradability : Inoculum: activated sludge, non-adapted
Result: Readily biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Remarks: Based on data from similar materials

glycerol:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 94 %
Exposure time: 24 h

Bioaccumulative potential**Product:**

Bioaccumulation : Bioconcentration factor (BCF): 1,200 - 3,200
Method: QSAR
Remarks: Information refers to the main component.

Remarks: No data is available on the product itself.

Components:**fenoxaprop-P-ethyl (ISO):**

Partition coefficient: n-octanol/water : log Pow: 4.28

Cloquintocet-mexyl:

Bioaccumulation : Species: Fish
Bioconcentration factor (BCF): 1,000
Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: 5.03 (25 °C)

Version	Revision Date:	SDS Number:	Date of last issue:
1.1	24.03.2025	50000610	22.03.2021
			Date of first issue: 22.03.2021

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Bioaccumulation : Remarks: The product/substance has a potential to bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 3.72
Method: QSAR

Alcohols, C9-11, ethoxylated:

Bioaccumulation : Species: Pimephales promelas (fathead minnow)
Bioconcentration factor (BCF): 237
Remarks: Based on data from similar materials

Partition coefficient: n-octanol/water : log Pow: 3.74 (25 °C)
Method: QSAR

glycerol:

Partition coefficient: n-octanol/water : log Pow: -1.75 (25 °C)
pH: 7.4

Mobility in soil**Product:**

Distribution among environmental compartments : Remarks: No data is available on the product itself.

Components:**Cloquintocet-mexyl:**

Distribution among environmental compartments : Remarks: immobile

Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

Distribution among environmental compartments : Remarks: Expected to partition to sediment and wastewater solids. Moderately volatile.

Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.

Components:**fenoxaprop-P-ethyl (ISO):**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Very toxic to aquatic life with long lasting effects.

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

Section 13: Disposal considerations**Disposal methods**

- Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
- Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Do not re-use empty containers.
Packaging that is not properly emptied must be disposed of as the unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
-

Section 14: Transport information**International Regulations****UNRTDG**

- UN number : UN 3082
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Fenoxaprop-P-ethyl, Cloquintocet-mexyl)
- Class : 9
- Packing group : III
- Labels : 9
- Environmentally hazardous : yes

IATA-DGR

- UN/ID No. : UN 3082
- Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.
(Fenoxaprop-P-ethyl, Cloquintocet-mexyl)
- Class : 9
- Packing group : III
- Labels : Miscellaneous
- Packing instruction (cargo aircraft) : 964
- Packing instruction (passenger aircraft) : 964
- Environmentally hazardous : yes

IMDG-Code

- UN number : UN 3082
- Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Fenoxaprop-P-ethyl, Cloquintocet-mexyl)
- Class : 9
- Packing group : III

SAFETY DATA SHEET

FOXTROT®



Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

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

NZS 5433

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fenoxaprop-P-ethyl, Cloquintocet-mexyl)
Class	:	9
Packing group	:	III
Labels	:	9
Hazchem Code	:	3Z
Marine pollutant	:	yes

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

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

HSNO Approval Number

HSR100112

ACVM number: P008030

Tolerable Exposure Limits (TEL)

Not applicable

Environmental Exposure Limits (EEL)

Not applicable

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

TSCA	:	Product contains substance(s) not listed on TSCA inventory.
AIIC	:	Not in compliance with the inventory
AICS	:	Not in compliance with the inventory
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL. Cloquintocet-mexyl fenoxaprop-P-ethyl (ISO)
ENCS	:	Not in compliance with the inventory

SAFETY DATA SHEET



FOXTROT®

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

ISHL	: Not in compliance with the inventory
KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
NZIoC	: On the inventory, or in compliance with the inventory
TECI	: Not in compliance with the inventory

Section 16: Other information

Revision Date	: 24.03.2025
Date format	: dd.mm.yyyy

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NZ OEL	: New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
NZ OEL / WES-TWA	: Workplace Exposure Standard - Time Weighted average

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 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 Tem-

SAFETY DATA SHEET



FOXTROT®

Version	Revision Date:	SDS Number:	Date of last issue: 22.03.2021
1.1	24.03.2025	50000610	Date of first issue: 22.03.2021

perature; 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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