

SAFETY DATA SHEET

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



FRAxIAL

| | | | |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number: | Date of last issue: 25.03.2025 |
| 1.1 | 24.10.2025 | S00088383480 | Date of first issue: 25.03.2025 |

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

1.1 Product identifier

Trade name : FRAxIAL

Design code : A13617AV

Product Registration Number : MAPP 21271

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

Use of the Sub-
stance/Mixture : Herbicide

Recommended restrictions : professional use
on use

1.3 Details of the supplier of the safety data sheet

Company : Syngenta UK Limited
Jealott's Hill International Research Centre
Bracknell, Berkshire RG42 6EY
United Kingdom

Telephone : +44 (0) 1223 883400

Telefax : -

E-mail address of person
responsible for the SDS : MSDSenquiries.UK@syngenta.com

1.4 Emergency telephone number

Emergency telephone num-
ber : +44 1484 538444

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)**

| | |
|---|--|
| Acute toxicity, Category 4 | H332: Harmful if inhaled. |
| Skin sensitisation, Sub-category 1A | H317: May cause an allergic skin reaction. |
| Reproductive toxicity, Category 2 | H361d: Suspected of damaging the unborn child. |
| Long-term (chronic) aquatic hazard, Cat- egory 2 | H411: Toxic to aquatic life with long lasting effects. |

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Skin irritation, Category 2

H315: Causes skin irritation.

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. |
| H332 | Harmful if inhaled. |
| H361d | Suspected of damaging the unborn child. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H315 | Causes skin irritation. |

Precautionary statements :

Prevention:

| | |
|------|---|
| P201 | Obtain special instructions before use. |
| P261 | Avoid breathing mist or vapours. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. |
| P264 | Wash hands thoroughly after handling. |
| P271 | Use only outdoors or in a well-ventilated area. |

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to a licensed hazardous-waste 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:

2-methylpentane-2,4-diol
pinoxaden (ISO)
cloquintocet-mexyl

Additional Labelling

EUH208 Contains pinoxaden (ISO). May produce an allergic reaction.

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EUH401 To avoid risks to human health and the environment, comply with the instructions 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.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

| Chemical name | CAS-No. EC-No. Index-No. Registration number | Classification | Concentration (% w/w) |
|--|---|--|--------------------------|
| hydrocarbons, C10-C13, aromatics, <1% naphthalene | Not Assigned UK-01-2250044631- 9-0001 | Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066 | >= 25 - < 30 |
| 2-methylpentane-2,4-diol | 107-41-5 203-489-0 603-053-00-3 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Repr. 2; H361d | >= 10 - < 20 |
| pinoxaden (ISO) | 243973-20-8 607-726-00-2 | Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1A; H317 Repr. 2; H361d STOT SE 3; H335 (Respiratory system) Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1 Acute toxicity estimate | >= 3 - < 10 |

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| | | | |
|--------------------|--------------------------------------|---|-------------------|
| | | Acute oral toxicity: 500 mg/kg Acute inhalation toxicity (dust/mist): 4.63 mg/l | |
| cloquintocet-mexyl | 99607-70-2 | Acute Tox. 4; H332 Skin Sens. 1; H317 STOT RE 2; H373 (Urinary system, Liver) Aquatic Acute 1; H400 Aquatic Chronic 1; H410 <hr/> M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1 | $\geq 1 - < 2.5$ |
| naphthalene | 91-20-3 202-049-5 601-052-00-2 | Flam. Sol. 2; H228 Acute Tox. 4; H302 Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 | $\geq 0.25 - < 1$ |

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice : Have the product container, label or Safety Data Sheet with you when calling the emergency number, a poison control center or physician, or going for treatment.
- If inhaled : Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control centre immediately.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.

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Wash contaminated clothing before re-use.

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.

If swallowed : If swallowed, seek medical advice immediately and show this container or label.
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Aspiration may cause pulmonary oedema and pneumonitis.

Risks : May cause an allergic skin reaction.
Harmful if inhaled.
Suspected of damaging the unborn child.
Repeated exposure may cause skin dryness or cracking.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : There is no specific antidote available.
Treat symptomatically.
Do not induce vomiting: contains petroleum distillates and/or aromatic solvents.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray

Unsuitable extinguishing media : Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.

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Hazardous combustion products : Carbon oxides
Nitrogen oxides (NO_x)
Oxides of phosphorus
Chlorine compounds

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

Further information : Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Clean contaminated surface thoroughly.
Clean with detergents. Avoid solvents.
Retain and dispose of contaminated wash water.

6.4 Reference to other sections

For disposal considerations see section 13., Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : No special protective measures against fire required.
Avoid contact with skin and eyes.
When using do not eat, drink or smoke.
For personal protection see section 8.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Specific use(s) : For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

| Components | CAS-No. | Value type (Form of exposure) | Control parameters | Basis |
|---|--------------|-------------------------------|---------------------------------|------------|
| hydrocarbons, C10-C13, aromatics, <1% naphthalene | Not Assigned | TWA | 8 ppm 50 mg/m ³ | Supplier |
| 2-methylpentane-2,4-diol | 107-41-5 | TWA | 25 ppm 123 mg/m ³ | GB EH40 |
| | | STEL | 25 ppm 123 mg/m ³ | GB EH40 |
| pinoxaden (ISO) | 243973-20-8 | TLV-C | 0.1 mg/m ³ | Syngenta |
| cloquintocet-mexyl | 99607-70-2 | TWA | 1 mg/m ³ | Syngenta |
| naphthalene | 91-20-3 | TWA | 10 ppm 50 mg/m ³ | 91/322/EEC |
| Further information: Indicative | | | | |

Biological occupational exposure limits

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|----------------|---------|--|---------------|----------------|
| naphthalene | 91-20-3 | 1-hydroxypyrene: 4 µmol/mol creatinine (Urine) | After shift | GB EH40 BAT |

Derived No Effect Level (DNEL)

| Substance name | End Use | Exposure routes | Potential health effects | Value |
|------------------------------|---------|-----------------|----------------------------|------------------------|
| tris(2-ethylhexyl) phosphate | Workers | Inhalation | Long-term systemic effects | 350 mg/m ³ |
| | Workers | Inhalation | Acute systemic effects | 2800 mg/m ³ |
| | Workers | Dermal | Long-term systemic | 50 mg/kg |

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|---|-----------|------------|------------------------------------|-------------------|
| | | | effects | |
| | Workers | Dermal | Acute systemic effects | 40 mg/kg |
| | Consumers | Dermal | Acute systemic effects | 200 mg/kg |
| | Consumers | Dermal | Long-term systemic effects | 25 mg/kg |
| | Consumers | Inhalation | Acute systemic effects | 500 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 62.5 mg/m3 |
| | Consumers | Oral | Acute systemic effects | 200 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 25 mg/kg |
| hydrocarbons, C10-C13, aromatics, <1% naphthalene | Workers | Inhalation | Long-term systemic effects | 151 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 12.5 mg/kg |
| | Consumers | Inhalation | Long-term systemic effects | 32 mg/m3 |
| | Consumers | Dermal | Long-term systemic effects | 7.5 mg/kg |
| | Consumers | Oral | Long-term systemic effects | 7.5 mg/kg |
| 2-methylpentane-2,4-diol | Workers | Inhalation | Short-term exposure, Local effects | 98 mg/m3 |
| | Workers | Inhalation | Long-term systemic effects | 14 mg/m3 |
| | Workers | Inhalation | Long-term local effects | 49 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 2 mg/kg |
| | Consumers | Inhalation | Short-term exposure, Local effects | 49 mg/m3 |
| | Consumers | Inhalation | Long-term systemic effects | 3.5 mg/m3 |
| | Consumers | Inhalation | Long-term local effects | 25 mg/m3 |
| | Consumers | Oral | Long-term systemic effects | 1 mg/kg |
| | Consumers | Dermal | Long-term systemic effects | 1 mg/kg |
| castor oil, ethoxylated | Workers | Inhalation | Long-term systemic effects | 16.4 mg/m3 |
| | Workers | Dermal | Long-term systemic effects | 4.67 mg/kg bw/day |
| | Consumers | Inhalation | Long-term systemic | 2.9 mg/m3 |

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| | | | effects | |
|--------------------|----------------|------------|--------------------------------------|-------------------------|
| | Consumers | Dermal | Long-term systemic effects | 1.67 mg/kg bw/day |
| | Consumers | Oral | Long-term systemic effects | 1.67 mg/kg bw/day |
| cloquintocet-mexyl | Industrial use | Dermal | Long-term exposure, Systemic effects | 3.33 mg/kg |
| | Industrial use | Inhalation | Long-term exposure, Systemic effects | 0.303 mg/m ³ |
| naphthalene | Workers | Inhalation | Long-term systemic effects | 25 mg/m ³ |
| | Workers | Inhalation | Long-term local effects | 25 mg/m ³ |
| | Workers | Dermal | Long-term systemic effects | 3.57 mg/kg |

Predicted No Effect Concentration (PNEC)

| Substance name | Environmental Compartment | Value |
|------------------------------|---------------------------|---------------------------------|
| tris(2-ethylhexyl) phosphate | Sewage treatment plant | 1 mg/l |
| 2-methylpentane-2,4-diol | Fresh water | 0.429 mg/l |
| | Marine water | 0.0429 mg/l |
| | Fresh water sediment | 1.79 mg/kg |
| | Marine sediment | 0.179 mg/kg |
| | Soil | 0.11 mg/kg |
| castor oil, ethoxylated | Fresh water sediment | 0.0129 mg/kg dry weight (d.w.) |
| | Marine sediment | 0.00129 mg/kg dry weight (d.w.) |
| | Soil | 0.00258 mg/kg dry weight (d.w.) |
| cloquintocet-mexyl | Fresh water | 0.0018 mg/l |
| | Fresh water sediment | 0.934 mg/kg dry weight (d.w.) |
| | Marine water | 0.00018 mg/l |
| | Marine sediment | 0.0934 mg/kg dry weight (d.w.) |
| | Soil | 0.463 mg/kg dry weight (d.w.) |
| naphthalene | Fresh water | 0.0024 mg/l |
| | Marine water | 0.0024 mg/l |
| | Sewage treatment plant | 2.9 mg/l |
| | Fresh water sediment | 0.0672 mg/kg |
| | Marine sediment | 0.0672 mg/kg |
| | Soil | 0.0533 mg/kg |

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8.2 Exposure controls

Engineering measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.

The extent of these protection measures depends on the actual risks in use.

Maintain air concentrations below occupational exposure standards.

Where necessary, seek additional occupational hygiene advice.

Personal protective equipment

Eye/face protection : No special protective equipment required.

Hand protection

Material : Nitrile rubber

Break through time : > 480 min

Glove thickness : 0.5 mm

Remarks : Wear protective gloves. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each case. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Remove and wash contaminated clothing before re-use.

Wear as appropriate:

Impervious clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Suitable respiratory equipment:

Respirator with a half face mask

The filter class for the respirator must be suitable for the maximum expected contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If this concentration is exceeded, self-contained breathing apparatus must be used.

Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.

When selecting personal protective equipment, seek appropriate professional advice.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | | |
|--|---|---|
| Appearance | : | liquid, clear |
| Colour | : | orange |
| Odour | : | sweetish |
| Odour Threshold | : | No data available |
| pH | : | 4.5 Concentration: 1 %w/v |
| Melting point/freezing point | : | No data available |
| Initial boiling point and boiling range | : | No data available |
| Flash point | : | 103 °C Method: Pensky-Martens closed cup |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | No data available |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Density | : | 0.965 g/cm ³ (25 °C) |
| Solubility(ies) | | |
| Solubility in other solvents | : | No data available |
| Partition coefficient: n-octanol/water | : | No data available |
| Auto-ignition temperature | : | 380 °C |
| Decomposition temperature | : | No data available |
| Viscosity | | |
| Viscosity, dynamic | : | 50 mPa,s (20 °C) |

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22.39 mPa,s (40 °C)

Viscosity, kinematic : 24.23 mm²/s (40 °C)

Explosive properties : Not explosive

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

9.2 Other information

Surface tension : 30.0 mN/m, 20 °C

Particle size : No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

None reasonably foreseeable.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

10.5 Incompatible materials

Materials to avoid : None known.

10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Information on likely routes of exposure :
Ingestion
Inhalation
Skin contact
Eye contact

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Acute toxicity

Harmful if inhaled.

Product:

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): > 2.42 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance/mixture is not toxic on inhalation as defined by dangerous goods regulations.

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

Components:

2-methylpentane-2,4-diol:

Acute oral toxicity : LD50 (Rat, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

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

pinoxaden (ISO):

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

Acute toxicity estimate: 500 mg/kg
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : LC50 (Rat, male): 4.63 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

Acute toxicity estimate: 4.63 mg/l
Test atmosphere: dust/mist
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

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

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cloquintocet-mexyl:

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

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

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

naphthalene:

Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.

Skin corrosion/irritation

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

Product:

Species : Rabbit
Result : Mild skin irritation

Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Result : Repeated exposure may cause skin dryness or cracking.

2-methylpentane-2,4-diol:

Species : Rabbit
Result : Irritating to skin.

pinoxaden (ISO):

Method : Based on Human Evidence
Result : Irritating to skin.

cloquintocet-mexyl:

Species : Rabbit
Result : No skin irritation

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Serious eye damage/eye irritation

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

Product:

Species : Rabbit
Result : No eye irritation

Components:

2-methylpentane-2,4-diol:

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days

pinoxaden (ISO):

Species : Rabbit
Result : Irritation to eyes, reversing within 21 days

cloquintocet-mexyl:

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified due to lack of data.

Product:

Test Type : Buehler Test
Species : Guinea pig
Result : The product is a skin sensitiser, sub-category 1A.

Components:

pinoxaden (ISO):

Test Type : Local lymph node assay (LLNA)
Species : Mouse
Result : The product is a skin sensitiser, sub-category 1A.

Test Type : Respiratory sensitisation
Result : Does not cause respiratory sensitisation.
Remarks : Experience with human exposure

cloquintocet-mexyl:

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Species : Guinea pig
Result : May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

2-methylpentane-2,4-diol:

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

pinoxaden (ISO):

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

cloquintocet-mexyl:

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

Carcinogenicity

Not classified due to lack of data.

Components:

2-methylpentane-2,4-diol:

Carcinogenicity - Assessment : Weight of evidence does not support classification as a carcinogen

pinoxaden (ISO):

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

cloquintocet-mexyl:

Carcinogenicity - Assessment : No evidence of carcinogenicity in animal studies.

naphthalene:

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Suspected of damaging the unborn child.

Components:

2-methylpentane-2,4-diol:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

pinoxaden (ISO):

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Reproductive toxicity - Assessment : No toxicity to reproduction

cloquintocet-mexyl:

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT - single exposure

Not classified due to lack of data.

Components:

pinoxaden (ISO):

Assessment : Based on Human Evidence, The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

Remarks : Breathing difficulties
Cough
Acute irritation of the respiratory system leading to tightness of the chest and an asthmatic condition.

cloquintocet-mexyl:

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

STOT - repeated exposure

Not classified due to lack of data.

Components:

pinoxaden (ISO):

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

cloquintocet-mexyl:

Target Organs : Urinary system, Liver

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

Aspiration toxicity

Not classified due to lack of data.

Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

May be fatal if swallowed and enters airways.

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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 70.71 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.31 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 29.8 mg/l
Exposure time: 96 h

NOEC (Raphidocelis subcapitata (freshwater green alga)): 6.4 mg/l
End point: Growth rate
Exposure time: 96 h

ErC50 (Lemna gibba (gibbous duckweed)): 32 mg/l
Exposure time: 7 d

EC10 (Lemna gibba (gibbous duckweed)): 3.7 mg/l
End point: Growth rate
Exposure time: 7 d

ErC50 (Glyceria maxima (reed sweet grass)): 5.76 mg/l
Exposure time: 14 d

EC10 (Glyceria maxima (reed sweet grass)): 1.25 mg/l
End point: Growth rate
Exposure time: 14 d

Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Toxicity to fish : LL50 (Oncorhynchus mykiss (rainbow trout)): 3.6 mg/l
Exposure time: 96 h
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 1.1 mg/l
Exposure time: 48 h
Remarks: Information given is based on data obtained from similar substances.

Toxicity to algae/aquatic : EL50 (Raphidocelis subcapitata (freshwater green alga)): 7.9

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plants mg/l
End point: Growth rate
Exposure time: 72 h
Remarks: Information given is based on data obtained from similar substances.

NOELR (Raphidocelis subcapitata (freshwater green alga)):
0.22 mg/l
End point: Growth rate
Exposure time: 72 h
Remarks: Information given is based on data obtained from similar substances.

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

pinoxaden (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 10.3 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 52 mg/l
Exposure time: 48 h

LC50 (Americamysis): 4.7 mg/l
Exposure time: 96 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)):
2.39 mg/l
Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)):
0.601 mg/l
End point: Growth rate
Exposure time: 72 h

ErC50 (Glyceria maxima (reed sweet grass)): 0.498 mg/l
Exposure time: 14 d

EC10 (Glyceria maxima (reed sweet grass)): 0.0239 mg/l
End point: Growth rate
Exposure time: 14 d

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 6.6 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)

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cloquintocet-mexyl:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.97 mg/l
Exposure time: 96 h

LC50 (Gobiocypris rarus (rare gudgeon)): 0.102 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 0.82 mg/l
aquatic invertebrates Exposure time: 48 h

Toxicity to algae/aquatic : ErC50 (Desmodesmus subspicatus (green algae)): > 2.2 mg/l
plants Exposure time: 72 h

NOEC (Desmodesmus subspicatus (green algae)): 0.12 mg/l
End point: Growth rate
Exposure time: 72 h

M-Factor (Acute aquatic tox- : 1
icity)

Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h

Toxicity to daphnia and other : NOEC: > 0.437 mg/l
aquatic invertebrates (Chron- Exposure time: 21 d
ic toxicity) Species: Daphnia (water flea)

M-Factor (Chronic aquatic : 1
toxicity)

naphthalene:

Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.

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

12.2 Persistence and degradability

Components:

hydrocarbons, C10-C13, aromatics, <1% naphthalene:

Biodegradability : Result: Readily biodegradable.

2-methylpentane-2,4-diol:

Biodegradability : Result: Readily biodegradable.

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pinoxaden (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 0.1 d
Remarks: Product is not persistent.

cloquintocet-mexyl:

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 0.4 d
Remarks: Product is not persistent.

12.3 Bioaccumulative potential

Components:

pinoxaden (ISO):

Bioaccumulation : Bioconcentration factor (BCF): 1.17
Remarks: Low bioaccumulation potential.

Partition coefficient: n-octanol/water : log Pow: 3.2 (25 °C)

cloquintocet-mexyl:

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: 5.24 (25 °C)

12.4 Mobility in soil

Components:

pinoxaden (ISO):

Distribution among environmental compartments : Remarks: Moderately mobile in soils

Stability in soil : Dissipation time: 0.4 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.

cloquintocet-mexyl:

Distribution among environmental compartments : Remarks: immobile

Stability in soil : Dissipation time: 2.4 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.

12.5 Results of PBT and vPvB assessment

Product:

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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:

2-methylpentane-2,4-diol:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).
Substance is not very persistent and very bioaccumulative (vPvB).

pinoxaden (ISO):

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).
Substance is not very persistent and very bioaccumulative (vPvB).

cloquintocet-mexyl:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).
Substance is not very persistent and very bioaccumulative (vPvB).

naphthalene:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).
Substance is not very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects

Endocrine disrupting potential : This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f).

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Triple rinse containers.

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Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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. (SOLVENT NAPHTHA) |
| RID | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA) |
| IMDG | : | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SOLVENT NAPHTHA) |
| IATA | : | Environmentally hazardous substance, liquid, n.o.s. (SOLVENT NAPHTHA) |

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 | : | (-) |
| Remarks | : | This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a |

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net mass of 5 kg or less for solids.

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IATA (Cargo)

Packing instruction (cargo aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

IATA (Passenger)

Packing instruction (passenger aircraft) : 964
Packing instruction (LQ) : Y964
Packing group : III
Labels : Miscellaneous
Remarks : This product can be subject to exemptions when packaged in single or combination packagings containing a net quantity per single or inner packaging of 5 L or less for liquids, or having a net mass of 5 kg or less for solids.

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

IMDG

Marine pollutant : yes

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IATA (Passenger)

Environmentally hazardous : yes

IATA (Cargo)

Environmentally hazardous : yes

14.6 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.

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 List of restrictions (Annex 17) : Conditions of restriction for the following entries should be considered:
Number on list 3

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable
Number on list 72: N-methyl-2-pyrrolidone

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation : Not applicable

Control of Major Accident Hazards Regulations 2015 (COMAH) E2 ENVIRONMENTAL HAZARDS

Control of Major Accident Hazards Regulations 2015 (COMAH) E2 ENVIRONMENTAL HAZARDS

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)
Not applicable

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the

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Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

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

SECTION 16: Other information

Full text of H-Statements

| | |
|-------|--|
| H228 | : Flammable solid. |
| H302 | : Harmful if swallowed. |
| H304 | : May be fatal if swallowed and enters airways. |
| H315 | : Causes skin irritation. |
| H317 | : May cause an allergic skin reaction. |
| H319 | : Causes serious eye irritation. |
| H332 | : Harmful if inhaled. |
| H335 | : May cause respiratory irritation. |
| H351 | : Suspected of causing cancer. |
| H361d | : Suspected of damaging 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. |
| H411 | : 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 |
| Asp. Tox. | : Aspiration hazard |
| Carc. | : Carcinogenicity |
| Eye Irrit. | : Eye irritation |
| Flam. Sol. | : Flammable solids |
| Repr. | : Reproductive toxicity |
| Skin Irrit. | : Skin irritation |
| Skin Sens. | : Skin sensitisation |
| STOT RE | : Specific target organ toxicity - repeated exposure |
| STOT SE | : Specific target organ toxicity - single exposure |
| 91/322/EEC | : Europe. Commission Directive 91/322/EEC on establishing indicative limit values |
| GB EH40 | : UK. EH40 WEL - Workplace Exposure Limits |
| GB EH40 BAT | : UK. Biological monitoring guidance values |
| Syngenta | : Syngenta Occupational Exposure Limit |
| 91/322/EEC / TWA | : Limit Value - eight hours |
| GB EH40 / TWA | : Long-term exposure limit (8-hour TWA reference period) |

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GB EH40 / STEL : Short-term exposure limit (15-minute reference period)
Syngenta / TLV-C : Ceiling Limit Value
Syngenta / TWA : Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

Classification of the mixture:

| | |
|-------------------|-------|
| Acute Tox. 4 | H332 |
| Skin Sens. 1A | H317 |
| Repr. 2 | H361d |
| Aquatic Chronic 2 | H411 |
| Skin Irrit. 2 | H315 |

Classification procedure:

| |
|--|
| Based on product data or assessment |
| Based on product data or assessment |
| Calculation method |
| Calculation method |
| Expert assessment by the competent authority |

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GB / 6N