

SAFETY DATA SHEET

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



TIMELINE FX

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.04.2025	S00079115122	Date of first issue: 09.04.2025

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

1.1 Product identifier

Trade name : TIMELINE FX

Design code : A21481B

Product Registration Number : MAPP 21228

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

Emergency telephone : +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)**

Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitization, Sub-category 1B	H317: May cause an allergic skin reaction.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.
Reproductive toxicity, Category 2	H361d: Suspected of damaging the unborn child.

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2.2 Label elements

Labeling (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	:	<div><div>H317</div><div>H319</div><div>H361d</div><div>H410</div></div> <div><div>May cause an allergic skin reaction.</div><div>Causes serious eye irritation.</div><div>Suspected of damaging the unborn child.</div><div>Very toxic to aquatic life with long lasting effects.</div></div>
Precautionary Statements	:	<div><div>P201</div><div>P261</div><div>P264</div><div>P280</div></div> <div><div>Obtain special instructions before use.</div><div>Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.</div><div>Wash the contact area thoroughly after handling.</div><div>Wear protective gloves/ eye protection/ face protection.</div></div> <div>Prevention:</div> <div><div>P302 + P352</div><div>P305 + P351 + P338</div><div>P308 + P313</div><div>P333 + P313</div><div>P337 + P313</div><div>P362 + P364</div><div>P391</div></div> <div><div>IF ON SKIN: Wash with plenty of soap and water.</div><div>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</div><div>IF exposed or concerned: Get medical advice/ attention.</div><div>If skin irritation or rash occurs: Get medical advice/ attention.</div><div>If eye irritation persists: Get medical advice/ attention.</div><div>Take off contaminated clothing and wash it before reuse.</div><div>Collect spillage.</div></div> <div>Response:</div> <div><div>P501</div></div> <div><div>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.</div></div> <div>Disposal:</div>

Hazardous ingredients which must be listed on the label:

benzyl alcohol
pinoxaden (ISO)
cloquintocet-mexyl

Additional Labeling

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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)
benzyl benzoate	120-51-4 204-402-9 607-085-00-9	Acute Tox. 4; H302 Aquatic Acute 1; H400 Aquatic Chronic 2; H411 M-Factor (Acute aquatic toxicity): 1	>= 10 - < 20
benzyl alcohol	100-51-6 202-859-9 603-057-00-5	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 Skin Sens. 1B; H317	>= 10 - < 20
methyl 5-(dimethylamino)-2-methyl-5-oxo-pentanoate	1174627-68-9	Eye Irrit. 2; H319	>= 10 - < 20
fluroxypyr-meptyl (ISO)	81406-37-3 279-752-9 607-272-00-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 1	>= 2.5 - < 10
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)	>= 2.5 - < 3

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		Aquatic Acute 1; H400 Aquatic Chronic 3; H412 M-Factor (Acute aquatic toxicity): 1	
benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	1335202-81-7	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	$\geq 1 - < 2.5$
2-methylpropan-1-ol	78-83-1 201-148-0 603-108-00-1	Flam. Liq. 3; H226 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory sys- tem) STOT SE 3; H336 (Central nervous system)	$\geq 1 - < 3$
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 M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	$\geq 0.25 - < 1$
florasulam (ISO)	145701-23-1 613-230-00-7	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	$\geq 0.1 - < 0.25$

For explanation of abbreviations see section 16.

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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 : Take the victim into fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control center immediately.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.
- If swallowed : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Nonspecific
No symptoms known or expected.
- Risks : May cause an allergic skin reaction.
Causes serious eye irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : There is no specific antidote available.
Treat symptomatically.

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

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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 ingredients, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.

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

5.3 Advice for firefighters

Special protective equipment for fire-fighters : 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.

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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.

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
fluroxypyr-meptyl (ISO)	81406-37-3	TWA	10 mg/m ³	Supplier
pinoxaden (ISO)	243973-20-8	TLV-C	0.1 mg/m ³	Syngenta
2-methylpropan-1-ol	78-83-1	TWA	50 ppm 154 mg/m ³	GB EH40
		STEL	75 ppm 231 mg/m ³	GB EH40
cloquintocet-mexyl	99607-70-2	TWA	1 mg/m ³	Syngenta

Derived No Effect Level (DNEL)

Substance name	End Use	Routes of exposure	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 effects	50 mg/kg
	Workers	Dermal	Acute systemic effects	40 mg/kg
	Consumers	Dermal	Acute systemic effects	200 mg/kg
	Consumers	Dermal	Long-term systemic	25 mg/kg

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			effects	
	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
benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m3
	Workers	Inhalation	Short-term exposure, Systemic effects	110 mg/m3
	Workers	Dermal	Long-term systemic effects	8 mg/kg
	Workers	Dermal	Short-term exposure, Systemic effects	40 mg/kg
	Consumers	Inhalation	Long-term systemic effects	5.4 mg/m3
	Consumers	Inhalation	Short-term exposure, Systemic effects	27 mg/m3
	Consumers	Dermal	Long-term systemic effects	4 mg/kg
	Consumers	Dermal	Short-term exposure, Systemic effects	20 mg/kg
	Consumers	Oral	Long-term systemic effects	4 mg/kg
	Consumers	Oral	Short-term exposure, Systemic effects	20 mg/kg
methyl 5-(dimethylamino)-2-methyl-5-oxo-pentanoate	Workers	Dermal	Long-term systemic effects	42 mg/kg
	Workers	Inhalation	Long-term systemic effects	29.2 mg/m3
	Consumers	Dermal	Long-term systemic effects	20.8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	7 mg/m3
	Consumers	Ingestion	Long-term systemic effects	4.2 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 effects	2.9 mg/m3
	Consumers	Dermal	Long-term systemic effects	1.67 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day
benzenesulfonic acid,	Consumers	Oral	Long-term systemic	89 mg/kg

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C10-13-alkyl derivs., calcium salts			effects	
	Consumers	Dermal	Long-term systemic effects	85 mg/kg
	Workers	Dermal	Long-term systemic effects	1.7 mg/kg
benzyl benzoate	Consumers	Oral	Long-term systemic effects	0.4 mg/kg
	Consumers	Oral	Short-term exposure, Systemic effects	78 mg/kg
	Workers	Inhalation	Long-term systemic effects	5.1 mg/m3
	Workers	Inhalation	Short-term exposure, Systemic effects	102 mg/m3
	Consumers	Inhalation	Long-term systemic effects	1.25 mg/m3
	Consumers	Inhalation	Short-term exposure, Systemic effects	25 mg/m3
	Workers	Dermal	Long-term systemic effects	2.6 mg/kg
2-methylpropan-1-ol	Workers	Inhalation	Long-term systemic effects, Long-term local effects	310 mg/m3
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	55 mg/m3
	Consumers	Oral	Long-term systemic effects, Long-term local effects	25 mg/kg
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/m3

Predicted No Effect Concentration (PNEC)

Substance name	Environmental Compartment	Value
tris(2-ethylhexyl) phosphate	Sewage treatment plant	1 mg/l
benzyl alcohol	Soil	0.456 mg/kg
	Sea sediment	0.527 mg/kg
	Fresh water	1 mg/l
	Freshwater - intermittent	2.31 mg/l
	Sea water	0.1 mg/l
	Sewage treatment plant	39 mg/l
	Fresh water sediment	5.27 mg/kg
castor oil, ethoxylated	Fresh water sediment	0.0129 mg/kg dry weight (d.w.)
	Sea sediment	0.00129 mg/kg dry weight (d.w.)
	Soil	0.00258 mg/kg dry weight (d.w.)
benzenesulfonic acid, C10-13-alkyl derivs., calcium salts	Fresh water	0.023 mg/l

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	Sea water	0.002 mg/l
	Fresh water sediment	0.174 mg/kg
	Sea sediment	0.017 mg/kg
	Soil	0.62 mg/kg
benzyl benzoate	Fresh water	0.0168 mg/l
	Sea water	0.00168 mg/l
	Sea sediment	1.07 mg/kg
	Fresh water sediment	10.66 mg/kg
	Sewage treatment plant	100 mg/l
	Soil	2.12 mg/l
2-methylpropan-1-ol	Fresh water	0.4 mg/l
	Sewage treatment plant	10 mg/l
	Soil	0.0699 mg/kg
	Sea sediment	0.152 mg/kg
	Fresh water sediment	1.52 mg/kg
	Sea water	0.04 mg/l
cloquintocet-mexyl	Fresh water	0.0018 mg/l
	Fresh water sediment	0.934 mg/kg dry weight (d.w.)
	Sea water	0.00018 mg/l
	Sea sediment	0.0934 mg/kg dry weight (d.w.)
	Soil	0.463 mg/kg dry weight (d.w.)

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 : Tightly fitting safety goggles
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.

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 condi-

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		tions 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 from 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 break-through.
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	:	No personal respiratory protective equipment normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	clear to slightly turbid
Color	:	pale yellow to orange brown
Odor	:	Faint sweet
Odor Threshold	:	No data available
pH	:	2 - 6 Concentration: 1 %w/v
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	94 °C Method: Pensky-Martens closed cup
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not classified as a flammability hazard
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available

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Relative vapor density	:	No data available
Density	:	1.028 g/cm ³ (20 °C)
Solubility(ies)		
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	385 °C
Decomposition temperature	:	No data available
Viscosity		
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Particle size	:	No data available
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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.
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10.4 Conditions to avoid

Conditions to avoid	:	No decomposition if used as directed.
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10.5 Incompatible materials

Materials to avoid	:	None known.
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10.6 Hazardous decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

Acute toxicity

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

Product:

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

Acute inhalation toxicity : LC50 (Rat, male and female): > 5.2 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

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

Components:

benzyl benzoate:

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

benzyl alcohol:

Acute oral toxicity : LD50 (Rat, male): 1,620 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 4.178 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

fluroxypyr-meptyl (ISO):

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

Acute inhalation toxicity : LC50 (Rat, male and female): > 1.16 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Highest attainable concentration

Acute dermal toxicity : LD50 (Rabbit): > 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

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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

benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

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

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

2-methylpropan-1-ol:

Acute oral toxicity : LD50 (Rat): 2,830 - 3,350 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 24.6 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit): > 2,000 - 2,460 mg/kg

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

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florasulam (ISO):

Acute oral toxicity	: LD50 (Rat): > 5,000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Assessment: The component/mixture is minimally toxic after single contact with skin.

Skin corrosion/irritation

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

Product:

Species	: Rabbit
Result	: No skin irritation

Components:

fluroxypyr-meptyl (ISO):

Result	: No skin irritation
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pinoxaden (ISO):

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

benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Species	: Rabbit
Result	: Irritating to skin.

2-methylpropan-1-ol:

Result	: Irritating to skin.
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cloquintocet-mexyl:

Species	: Rabbit
Result	: No skin irritation

florasulam (ISO):

Species	: Rabbit
Result	: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

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Product:

Species : Rabbit
Result : Irritation to eyes, reversing within 7 days

Components:

benzyl alcohol:

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

methvl 5-(dimethylamino)-2-methyl-5-oxo-pentanoate:

Species : Rabbit
Result : Eye irritation

fluroxypyr-meptyl (ISO):

Result : No eye irritation

pinoxaden (ISO):

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

benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Species : Rabbit
Result : Risk of serious damage to eyes.

2-methylpropan-1-ol:

Result : Risk of serious damage to eyes.

cloquintocet-mexyl:

Species : Rabbit
Result : No eye irritation

florasulam (ISO):

Species : Rabbit
Result : No eye irritation

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified due to lack of data.

Product:

Species : Guinea pig
Result : The product is a skin sensitizer, sub-category 1B.

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Components:

benzyl alcohol:

Result : The product is a skin sensitizer, sub-category 1B.

fluroxypyr-meptyl (ISO):

Result : Does not cause skin sensitization.

pinoxaden (ISO):

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

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

2-methylpropan-1-ol:

Species : Guinea pig
Result : Does not cause skin sensitization.
Remarks : Information given is based on data obtained from similar substances.

cloquintocet-mexyl:

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

florasulam (ISO):

Species : Guinea pig
Result : Does not cause skin sensitization.

Germ cell mutagenicity

Not classified due to lack of data.

Components:

methyl 5-(dimethylamino)-2-methyl-5-oxo-pentanoate:

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

fluroxypyr-meptyl (ISO):

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

pinoxaden (ISO):

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

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cloquintocet-mexyl:

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

florasulam (ISO):

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

Carcinogenicity

Not classified due to lack of data.

Components:

fluroxypyr-meptyl (ISO):

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

pinoxaden (ISO):

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

cloquintocet-mexyl:

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

florasulam (ISO):

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

Reproductive toxicity

Not classified due to lack of data.

Components:

methy1 5-(dimethylamino)-2-methyl-5-oxo-pentanoate:

Reproductive toxicity - Assessment : No toxicity to reproduction

fluroxypyr-meptyl (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

pinoxaden (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

cloquintocet-mexyl:

Reproductive toxicity - Assessment : No toxicity to reproduction

florasulam (ISO):

Reproductive toxicity - Assessment : No toxicity to reproduction

STOT-single exposure

Not classified due to lack of data.

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Components:

fluroxypyr-meptyl (ISO):

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

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.

2-methylpropan-1-ol:

Assessment : The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

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:

fluroxypyr-meptyl (ISO):

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

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.

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Components:

2-methylpropan-1-ol:

May be harmful if swallowed and enters airways.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 44.7 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Lemna gibba (gibbous duckweed)): > 1 mg/l
Exposure time: 7 d

EC10 (Lemna gibba (gibbous duckweed)): 0.212 mg/l
End point: Growth rate
Exposure time: 7 d

ErC50 (Raphidocelis subcapitata (freshwater green alga)): 4.23 mg/l
Exposure time: 72 h

EC10 (Raphidocelis subcapitata (freshwater green alga)): 3.91 mg/l
End point: Growth rate
Exposure time: 72 h

NOEC (Lemna gibba (gibbous duckweed)): 0.0625 mg/l
End point: Growth rate
Exposure time: 7 d

NOEC (Raphidocelis subcapitata (freshwater green alga)): 2 mg/l
End point: Growth rate
Exposure time: 72 h

Components:

benzyl benzoate:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 2.32 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 3.09 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.475 mg/l
Exposure time: 72 h

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

M-Factor (Acute aquatic toxicity) : 1

benzyl alcohol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 770 mg/l
Exposure time: 72 h

NOEC (Raphidocelis subcapitata (freshwater green alga)):
310 mg/l
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 51 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

fluroxypyr-meptyl (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.225 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.183 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): > 1.1410 mg/l
Exposure time: 72 h

ErC50 (Myriophyllum spicatum (Eurasian watermilfoil)): 0.075 mg/l
Exposure time: 14 d

NOEC (Myriophyllum spicatum (Eurasian watermilfoil)): 0.031 mg/l
Exposure time: 14 d

M-Factor (Acute aquatic toxicity) : 10

Toxicity to fish (Chronic toxicity) : NOEC: 0.32 mg/l
Species: Oncorhynchus mykiss (rainbow trout)

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M-Factor (Chronic aquatic toxicity) : 1

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)

benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Toxicity to fish : LC50 (Fish): > 1 - < 10 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.9 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 29 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

NOEC (Raphidocelis subcapitata (freshwater green alga)): 0.5 mg/l
Exposure time: 96 h
Remarks: Based on data from similar materials

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Toxicity to fish (Chronic toxicity) : NOEC: 0.23 mg/l
Exposure time: 72 d
Species: Oncorhynchus mykiss (rainbow trout)
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1.18 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials

2-methylpropan-1-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1,430 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia pulex (Water flea)): 1,100 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Raphidocelis subcapitata (freshwater green alga)): 1,799 mg/l
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 20 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

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 aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 0.82 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 2.2 mg/l
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 toxicity) : 1

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

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: > 0.437 mg/l
Exposure time: 21 d
Species: Daphnia

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M-Factor (Chronic aquatic toxicity) : 1

florasulam (ISO):

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 292 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 0.00942 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 119 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)
Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 38.9 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)

M-Factor (Chronic aquatic toxicity) : 100

12.2 Persistence and degradability

Components:

benzyl benzoate:

Biodegradability : Result: Readily biodegradable.

benzyl alcohol:

Biodegradability : Result: Readily biodegradable.

fluroxypyr-meptyl (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 454 d
Remarks: Persistent in water.

pinoxaden (ISO):

Biodegradability : Result: Not readily biodegradable.

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

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benzenesulfonic acid, C10-13-alkyl derivs., calcium salts:

Biodegradability : Result: Readily biodegradable.

2-methylpropan-1-ol:

Biodegradability : Result: Readily biodegradable.

cloquintocet-mexyl:

Biodegradability : Result: Not readily biodegradable.

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

florasulam (ISO):

Biodegradability : Result: Not readily biodegradable.

Stability in water : Degradation half life: 98 - 100 d (25 °C)
pH: 9
Remarks: Product is not persistent.

12.3 Bioaccumulative potential

Components:

fluroxypyr-meptyl (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

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)

florasulam (ISO):

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -1.22

12.4 Mobility in soil

Components:

fluroxypyr-meptyl (ISO):

Distribution among environ- : Remarks: immobile

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mental compartments

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.

florasulam (ISO):

Distribution among environmental compartments : Remarks: Very highly mobile in soil.

Stability in soil : Dissipation time: 2 - 18 d
Percentage dissipation: 50 % (DT50)
Remarks: Product is not persistent.

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:

methyl 5-(dimethylamino)-2-methyl-5-oxo-pentanoate:

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).

2-methylpropan-1-ol:

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).

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lative (vPvB).

12.6 Other adverse effects

Product:

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.
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.
(FLORASULAM, BENZOIC ACID BENZYL ESTER)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(FLORASULAM, BENZOIC ACID BENZYL ESTER)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(FLORASULAM, BENZOIC ACID BENZYL ESTER)

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

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(FLORASULAM, BENZOIC ACID BENZYL 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	: (-)
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.

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)

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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

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
	Number on list 72: N-methyl-2-pyrrolidone
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	: Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	: Not applicable
Regulation (EC) on substances that deplete the ozone layer	: Not applicable
UK REACH List of substances subject to authorisation	: Not applicable

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(Annex XIV)

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

Control of Major Accident Hazards Regulations E1 ENVIRONMENTAL HAZARDS
2015 (COMAH)

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

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

H226	: Flammable liquid and vapor.
H302	: Harmful if swallowed.
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.
H336	: May cause drowsiness or dizziness.
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
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitization
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
Syngenta	: Syngenta Occupational Exposure Limits
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)
Syngenta / TLV-C	: Ceiling Limit Value
Syngenta / TWA	: Time weighted average

SAFETY DATA SHEET

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



TIMELINE FX

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.04.2025	S00079115122	Date of first issue: 09.04.2025

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - 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:

Eye Irrit. 2	H319
Skin Sens. 1B	H317
Aquatic Acute 1	H400
Aquatic Chronic 1	H410
Repr. 2	H361d

Classification procedure:

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

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

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GB / EN