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GROUP 4 2 HERBICIDES MAPP No. 20559 UFI: X990-T030-0004-8ES1

Product names marked ® or ™. the ALLIANCE FRAME ■ the SYNGENTA Logo and the PURPOSE ICON

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A suspension emulsion formulation containing 141.12 g/L fluroxypyr (as the 1-methylheptyl ester) and 2.45 g/L florasulam.



A post-emergence herbicide for control of broad leaved weeds in sports pitches, golf courses, race courses and gallops, bowling greens, airfields, professional application to commercial and residential lawns and other managed amenity turf and amenity grassland.

The (COSHH) Control of Substances Hazardous to Health Regulations may apply to the use of this product at work.

SHAKE WELL BEFORE USE. PROTECT FROM FROST.

4 x 5 litres

Approval holder	UK Marketing Company
GLOBACHEM NV, Brustem Industriepark- Lichtenberglaan 2019, B-3800 Sint-Truiden - Belgium, Tel: +32 11 78 57 17 Fax: +32 11 68 15 65 E-mail: globachem@globachem.com Web: www.globachem.com	Syngenta UK Ltd, CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE, Tel: +44 (0)1223 883400

In case of toxic or transport emergency ring +44 (0)1484 538444 any time.

OVERTAKE®

A suspension emulsion formulation containing 141.12 g/L fluroxypyr (as the 1-methylheptyl ester) and 2.45 g/L florasulam.

Danger

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.

Avoid breathing vapours or spray. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. Take off contaminated clothing and wash before reuse. Collect spillage.

Store in a well-ventilated place. Keep container tightly closed. 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.

To avoid risks to human health and the environment comply with the instructions for use.

MAPP No. 20559 UEI: X990-T030-0004-8ES1





IMPORTANT INFORMATION

FOR USE ONLY AS A PROFESSIONAL HERBICIDE

Crops	Maximum individual dose (L/ha)	Maximum number of treatments: (per year)	Latest time of application
Amenity grassland, lawns, managed amenity turf	2.0	One	End of October

Apply to established grass from March to October and to newly sown grass from May (BBCH 20) to October when soil is moist.

READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.

SAFETY PRECAUTIONS

(a) Operator protection

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

DO NOT BREATHE SPRAY.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin and eyes immediately.

WASH HANDS AND EXPOSED SKIN before eating and drinking, and after work.

(b) Environmental protection

DO NOT CONTAMINATE WATER with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from yards and roads.

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application.

DO NOT ALLOW DIRECT SPRAY from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

(c) Storage and disposal

KEEP IN ORIGINAL CONTAINER, tightly closed in a safe place. RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely. DO NOT RE-USE CONTAINER for any purpose. This leaflet is part of the approved product label.

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label, All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

GENERAL INFORMATION

OVERTAKE® herbicide has activity against a range of broad-leaved weeds. OVERTAKE® is mainly absorbed through the foliage of weeds. The ideal timing for application is when the weeds are small and actively growing.

NOTES

Broad-leaved weeds not present at application will not be controlled.

Clippings from grass treated with OVERTAKE® can be safely used for mulch after the third cut. An interval of four weeks must elapse between application of OVERTAKE® and re-seeding turf.

Do not apply if turforass is wet.

Do not apply to turf, lawns or grass areas which are under stress.

Do not apply if night temperatures are low, if ground frost is imminent, or in periods of prolonged cold or dry weather.

Ensure weeds are actively growing as after periods of prolonged drought, weeds can take a long time to start actively growing again after soil moisture returns.

Extreme care must be taken to avoid spray drift onto crops and non-target plants e.g. trees, shrubs, bedding, outside the target area.

RESISTANCE

OVERTAKE® contains active ingredients with differing modes of action and the risk of resistance building is therefore reduced. However, as florasulam is an ALS-inhibitor there is a risk of resistance building to this active ingredient and so precautions should be taken to minimize the risk. Therefore, avoid using single action mode of action herbicides, such as ALS-inhibitors in the same field over a number of years. Users are advised to apply products containing herbicides with different modes of action or use sequences or tank mixtures where two or more components are active against the target weeds.

AREA OF USE

OVERTAKE® can be applied to newly sown or established managed amenity turf and amenity grassland.

Ensure newly sown turf has become established before treating. Turf sown in spring or summer may be ready for spraying at or after stem elongation stage, usually two months after sowing, but turf sown in late summer or autumn should not be spraved until growth is resumed in the following spring, perhaps 8 months after sowing, OVERTAKE® may be used on all soil types.

In view of the large number of turf grass cultivars grown consult your manufacturer for current approved list or test OVERTAKE® for turf safety on a small area of turf before overall application.

APPI ICATION TIMING

Apply when weeds are in active growth. Apply to established grass from March to October and to newly sown grass from BBCH 20. May to October when the soil is moist. Do not apply in periods of drought unless irrigation is applied. Avoid mowing 3 days before and after spraving to ensure sufficient weed leaf surface is present and to allow uptake and movement of OVERTAKE® within the weed.

BATE OF APPLICATION AND WEEDS CONTROLLED

One application of OVERTAKE® will control susceptible emerged weeds at the following rates:

Weed	Rate L product/ha	Rate ml product/100m ²
Common daisy Common dandelion White clover	2.0	20

Application timing:

WATER VOLUME

OVERTAKE® may be applied through tractor-mounted hydraulic sprayers or knapsack spravers. For overall application, apply OVERTAKE® in 200 to 400 litres of water per hectare. For knapsack application, apply OVERTAKE® in 2 to 4 litres of water per 100 m².

APPI ICATION FOUIPMENT

OVERTAKE® may be applied through tractor-mounted hydraulic sprayers or knapsack sprayers providing they are in good working order and have been calibrated according to the manufacturers' recommendations Do not apply through CDA applicators.

MIXING

Half fill the spray tank with water and add the required amount of OVERTAKE®. Fill up the spray tank, agitating continuously to ensure thorough mixing, and maintain agitation until spraying is complete. Use only clean water for mixing.

SPRAY OUALITY

Apply OVERTAKE® as a MEDIUM spray as defined by the BCPC system.

TANK CLEANING

To avoid subsequent injury to crops other than managed amenity turf, domestic lawns and amenity grassland, all spraying equipment must be thoroughly cleaned both inside and out, using All Clear Extra spray cleaner as follows:

- 1) Immediately after spraying, drain tank completely. Any contamination on the outside of the spraving equipment should be removed by washing with clean water.
- 2) Rinse inside of tank with clean water and flush through booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.
- Half fill tank with clean water and add All Clear Extra at the recommended rate. Agitate and then briefly flush the booms and hoses with the cleaning solution. Top up with water making sure the tank is completely full and allow to stand for 15 minutes with agitation. Flush the booms and hoses and drain tank completely.
- 4) Nozzles and filters should be removed and cleaned separately with All Clear Extra solution containing 50 ml of All Clear Extra per 10 litres of water.
- 5) Rinse the tank with clean water and flush through the booms and hoses using at least one tenth of the spray tank volume. Drain tank completely.

6) For disposal of washings, follow The Code of Practice for Using Plant Protection Products. Do not spray onto sensitive crop or land intended for cropping with sensitive crop.

Note: If it is not possible to drain the tank completely, step 3 must be repeated before going onto step 4.

CONDITIONS OF SUPPLY

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

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Section 6 of the Health and Safety at Work Act Additional Product Safety Information

(This section does not form part of the product label under the Plant Protection Products Regulations 1995.)

The product label provides information on a specific pesticidal use of the product; do not use otherwise, unless you have assessed any potential hazard involved, the safety measures required and that the particular use has 'Extension of Use' approval or is otherwise permitted under the Plant Protection Products Regulations.

The information on this label is based on the best available information including data from test results.

Safety Data Sheet V1

SECTION 1. IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/ UNDERTAKING

1.1 Product Identifier

Trade name: OVERTAKE Design code: A16312B Product Registration Number: MAPP 20559 Unique Formula Identifier (UFI): X990-T030-004-8ES1

1.2 Relevant Identified Uses of the substance or mixture and uses advised against Use of the Substance/Mixture: Herbicide Recommended restrictions on use: professional use

1.3 Details of the supplier of the safety data sheet Company: Syngenta UK Ltd

CPC4, Capital Park, Fulbourn, Cambridge, CB21 5XE Telephone: +44 (0) 1223 883400 Telefax: +44 (0) 1223 882195 E-mail address: customer.services@syngenta.com **1.4 Emergency telephone number** Emergency ubone No.: +44 (0) 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)

Skin irritation, Category 2 - H315: Causes skin irritation.

Serious eye damage, Category 1 - H318: Causes serious eye damage.

Skin sensitisation, Category 1 - H317: May cause an allergic skin reaction.

Specific target organ toxicity - single exposure, Category 3, Central nervous system - H336: May cause drowsiness or dizziness.

Specific target organ toxicity - single exposure, Category 3, Respiratory system - H335: May cause respiratory irritation.

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.

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	Danger	• •
Hazard Statements	H315 H317 H318 H335 H336 H410	Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness. Very toxic to aquatic ife with long lasting effects.
Precautionary Statements	P261 P273 P280 P302+P352 P333+P313 P304+P340 P305+P351 +P338+ P310	Avoid breathing mist or vapours. Avoid release to the environment. Wear protective gloves/ eye protection/ face protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/ attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre-sent and easy to do. Continue rinsing. Immediately call a POISON
	P362+P364 P391 P403+P233 P501	CENTER/ doctor. Take off contaminated clothing and wash it before reuse. Collect spillage. Store in a well-ventilated place. Keep container tightly closed. 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.
Additional Labelling	EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Hazardous components which must be listed on the label:

Hydrocarbons, C9, Aromatics

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.	Classification	Concentration (% w/w)
	Index-No.		. ,
	Registration number		
Hydrocarbons, C9,	128601-23-0	Flam. Liq. 3; H226	>= 30 - < 50
Aromatics	265-199-0	STOT SE 3; H335 (Respiratory system)	
		STOT SE 3; H336 (Central nervous	
		system)	
		Asp. Tox. 1; H304	
		Aquatic Chronic 2; H411	
fluroxypyr-meptyl	81406-37-3	Aquatic Acute 1; H400	>= 10 - < 20
(ISO)	279-752-9	Aquatic Chronic 1; H410	
	607-272-00-5	M-Factor (Acute aquatic toxicity): 10	
		M-Factor (Chronic aquatic toxicity): 1	
florasulam (ISO)	145701-23-1	Aquatic Acute 1; H400	>= 0.1 - < 0.25
		Aquatic Chronic 1; H410	
	613-230-00-7	M-Factor (Acute aquatic toxicity): 100	
		M-Factor (Chronic aquatic toxicity):	
		100	

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, 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.

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 FIRE-FIGHTING 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. 5.3 Advice for firefighters

Special protective equipment for firefighters: Wear full protective clothing and selfcontained 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 BELEASE 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

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.		Control parameters	Basis
Hydrocarbons, C9, Aromatics	128601-23-0	TWA	19 ppm 100 mg/m ³	Supplier
fluroxypyr-meptyl (ISO)	81406-37-3	TWA	10 mg/m ³	Supplier

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Hydrocarbons, C9, Aromatics	Workers	Inhalation	Long-term systemic effects	150 mg/m ³
	Workers	Dermal	Long-term systemic effects	25 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m ³
	Consumers	Dermal	Long-term systemic effects	11 mg/kg
	Consumers	Oral	Long-term systemic effects	11 mg/kg

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

Tightly fitting safety goggles.

Face-shield

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties Appearance: liquid Colour: white Odour: characteristic Odour Threshold: No data available pH: 6.3. Concentration: 100 %w/v: 6.76. Concentration: 1 %w/v Melting point/range: No data available Boiling point/boiling range: No data available Flash point: > 100 °C. Does not flash 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 Vapour pressure: No data available Relative vapour density: No data available Density: 1.0041 a/cm3 Water solubility: No data available Solubility in other solvents: No data available Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: > 400 °C Decomposition temperature: No data available 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

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

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11, TOXICOLOGICAL INFORMATION Product. 11.1 Information on toxicological effects Information on likely routes of exposure: Ingestion, Inhalation, Skin contact, Eve contact Acute toxicity Components: Product: Acute oral toxicity: LD50 (Bat): > 2.000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Acute inhalation toxicity: LC50 (Bat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Product: Assessment: The substance or mixture has no acute inhalation toxicity Components: Acute dermal toxicity: LD50 (Bat): > 2.000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity Components: Hydrocarbons, C9, Aromatics: Acute oral toxicity: LD50 (Rat. female): 3.492 mg/kg fluroxypyr-meptyl (ISO): Acute oral toxicity: LD50 (Rat. female): > 5.000 mg/kg Components: 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 Components: Assessment: The substance or mixture has no acute dermal toxicity florasulam (ISO): LD50 (Rat): > 5,000 ma/ka Acute oral toxicity: Acute inhalation toxicity: LC50 (Rat): > 5 mg/l Exposure time: 4 h Test atmosphere: dust/mist Components: Assessment: The substance or mixture has no acute inhalation toxicity LD50 (Rat): > 2.000 mg/kg Acute dermal toxicity: Assessment: The component/mixture is minimally toxic after single contact with skin. Skin corrosion/irritation Components: Product: Result: Irritating to skin. Components: Hydrocarbons, C9, Aromatics: Result: Repeated exposure may cause skin dryness or cracking. Species: Rabbit Result: Mild skin irritation fluroxypyr-meptyl (ISO): Components: Result: No skin irritation florasulam (ISO): Species: Rabbit Result: No skin irritation

Serious eve damage/eve irritation Result: Risk of serious damage to eves. fluroxypyr-meptyl (ISO): Result: No eve irritation florasulam (ISO): Species: Rabbit Result: No eve irritation Respiratory or skin sensitisation Result: May cause sensitisation by skin contact. fluroxypyr-meptyl (ISO): Result: Did not cause sensitisation on laboratory animals. florasulam (ISO): Species: Guinea pig Result: Did not cause sensitisation on laboratory animals. Germ cell mutagenicity fluroxypyr-meptyl (ISO): 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.. In vitro tests did not show mutagenic effects. Carcinogenicity fluroxypyr-meptyl (ISO): Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies. florasulam (ISO): Carcinogenicity - Assessment: No evidence of carcinogenicity in animal studies. Reproductive toxicity fluroxypyr-meptyl (ISO): Reproductive toxicity - Assessment: No toxicity to reproduction florasulam (ISO): Reproductive toxicity - Assessment: No toxicity to reproduction. STOT - single exposure Hydrocarbons, C9, Aromatics: Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects. The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. fluroxypyr-meptyl (ISO): Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure. STOT - repeated exposure fluroxypyr-meptyl (ISO): Assessment: The substance or mixture is not classified as specific target organ toxicant. repeated exposure.

Aspiration toxicity Components: Hydrocarbons, C9, Aromatics:

Components:			alga)): > 1.1410 mg/l
Hydrocarbons, C9, Aromatics:			Exposure time: 72 h
May be fatal if swallowed and en	ters airways.		ErC50 (<i>Myriophyllum spicatum</i> (Eurasian watermilfoil): 0.075 mg/l
SECTION 12. ECOLOGICAL INFO	RMATION		Exposure time: 14 d
12.1 Toxicity			NOEC (<i>Myriophyllum spicatum</i> (Eurasian
Product:			watermilfoil): 0.031 mg/l
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.71 mg/l		Exposure time: 14 d
TOXICITY TO TISTI.	Exposure time: 96 h		
	Exposure une: 96 fi	M-Factor (Acute aquatic toxicity):	10
Toxicity to daphnia and		Toxicity to fish (Chronic toxicity):	NOEC: 0.32 mg/l
other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): 7.34 mg/l		Species: Oncorhynchus mykiss (rainbow trout)
	Exposure time: 48 h	M-Factor (Chronic aquatic toxicity)	:1
Toxicity to algae/aquatic plants:	EC50 (Raphidocelis subcapitata (freshwater green	florasulam (ISO):	
	alga)): 0.653 mg/l	Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l
	Exposure time: 72 h		Exposure time: 96 h
	EC50 (Lemna gibba (gibbous duckweed)): 0.821 mg/l	Toxicity to daphnia and	
	Exposure time: 72 h	other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 292 mg/l
	ErC50 (Myriophyllum spicatum (Eurasian		Exposure time: 48 h
	watermilfoil)): 0.299 mg/l	Toxicity to algae/aquatic plants:	ErC50 (Raphidocelis subcapitata (freshwater green
Components:	hater mining). Chebo might	Toxiony to alguoraquatio planto.	alga)): 0.00942 mg/l
Hydrocarbons, C9, Aromatics:			Exposure time: 72 h
Toxicity to fish:	LL50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l	M-Factor (Acute aquatic toxicity):	100
Toxicity to nam.	Exposure time: 96 h	Toxicity to fish (Chronic toxicity):	NOEC: 119 mg/l
Tovicity to dophnic and	Exposure unie. 50 fi	TOXICITY TO TISH (CHITOTHIC TOXICITY).	
Toxicity to daphnia and	ELEO (Denhaio megne (Meter flee)): 2.0 mg/l		Exposure time: 28 d
other aquatic invertebrates:	EL50 (Daphnia magna (Water flea)): 3.2 mg/l		Species: Oncorhynchus mykiss (rainbow trout)
	Exposure time: 48 h		Test Type: flow-through test
Toxicity to algae/aquatic plants:	ErC50 (Raphidocelis subcapitata (freshwater green	Toxicity to daphnia and	
	alga)): 2.9 mg/l	other aquatic invertebrates	
	Exposure time: 72 h	(Chronic toxicity):	NOEC: 38.9 mg/l
	NOELR (Raphidocelis subcapitata (freshwater green		Exposure time: 21 d
	alga)): 1.0 mg/l		Species: Daphnia magna (Water flea)
	End point: Growth rate	M-Factor (Chronic aquatic toxicity)	: 100
	Exposure time: 72 h		
Toxicity to fish (Chronic toxicity):	NOELR: 1.228 mg/l	12.2 Persistence and degradabil	itv
	Exposure time: 28 d	Components:	•
	Species: Oncorhynchus mykiss (rainbow trout)	Hydrocarbons, C9, Aromatics:	
Toxicity to daphnia and		Biodegradability: Result: Readily bi	odegradable
other aquatic invertebrates		fluroxypyr-meptyl (ISO):	odegradabie.
(Chronic toxicity):	NOELR: 2.144 mg/l	Biodegradability: Result: Not readil	u biodogradabla
(on one toxicity).	Exposure time: 21 d	Stability in water: Degradation half	
	Species: Daphnia magna (Water flea)		IIIe. 404 u
Frankrikele w Arrenewert	Species. Daprinia magna (water nea)	Remarks: Persistent in water.	
Ecotoxicology Assessment	-	florasulam (ISO):	
Chronic aquatic toxicity:	Toxic to aquatic life with long lasting effects.	Biodegradability: Result: Not readil	
fluroxypyr-meptyl (ISO):		Stability in water: Degradation half	lite: 98 - 100 d (25 °C)
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.225 mg/l	pH: 9	
	Exposure time: 96 h	Remarks: Product is not persistent	
Toxicity to daphnia and			
other aquatic invertebrates:	EC50 (Daphnia magna (Water flea)): > 0.183 mg/l		
	Exposure time: 48 h		
		7	

Toxicity to algae/aquatic plants:

ErC50 (Raphidocelis subcapitata (freshwater green

alga)): > 1.1410 mg/l

12.3 Bioaccumulative potential

Components:

fluroxypyr-meptyl (ISO):

Bioaccumulation: Remarks: Does not bioaccumulate.

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 environmental compartments: Remarks: immobile

florasulam (ISO):

Distribution among environmental compartments: Remarks: Very highly mobile in soil. Stability in soil: Dissipation time: 2 - 18 d Percentage dissipation: 50 (DT50)

Percentage dissipation: 50 % (D150

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.

12.6 Other adverse effects

Product:

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

SECTION 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. (FLUROXYPYR)

 RID:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUROXYPYR)

 IMDG:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUROXYPYR)

 IATA:
 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUROXYPYR)

14.3 Transport hazard class(es) q 9 RID: IMDG q q IATA: 14.4 Packing group Packing group: III Classification Code: M6 Hazard Identification Number: 90 Labels: 9 Tunnel restriction code: (-) RID Packing group: III Classification Code: M6 Hazard Identification Number: 90 Labels: 9 IMDG Packing group: III Labels: 9 EmS Code: E-A S-E IATA (Cargo) Packing instruction (cargo aircraft): 964 Packing instruction (LQ): Y964 Packing group: III Labels: Miscellaneous IATA (Passenger) Packing instruction (passenger aircraft): 964 Packing instruction (LQ): Y964 Packing group: III Labels: Miscellaneous 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 regulation/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

Regulation (EC) No 1005/2009 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) E1 ENVIRONMENTAL HAZARDS 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

Han text of n-solarinents H226: Flammable liquid and vapour. H336: May cause respiratory irritation. H335: May cause respiratory irritation. H336: May cause drowsiness or dizziness. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life. H411: Toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects. Full text of other abbreviations Aquatic Acute: Acute aquatic toxicity Aquatic Chronic: Chronic aquatic toxicity

Asp. Tox .: Aspiration hazard

Flam. Liq.: Flammable liquids

STOT SE: Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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: NOELB - 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 Belationship: BEACH - Begulation (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; TCSI - Taiwan Chemical Substance 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: Classification procedure:

Skin Irrit. 2	H315	Based on product data or assessment
Eye Dam. 1	H318	Based on product data or assessment
Skin Sens. 1	H317	Based on product data or assessment
STOT SE 3	H335	Calculation method
Aquatic Acute 1	H400	Based on product data or assessment.
Aquatic Chronic 1	H410	Calculation method

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