according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004868	Date of first issue: 05.04.2024

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

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

1.1 Product identifier

Trade name

: BROADWAY™ STAR

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

Use of the Sub-	:	Plant Protection Product, Herbicide
stance/Mixture		

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION

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

Customer Information	:	+44 8006 89 8899
Number		
E-mail address	:	SDS@corteva.com

1.4 Emergency telephone number

SGS: +353 818 663 627

National Poisons Information Centre (Beaumont Hospital): 01 809 2166 (8 AM - 10 PM)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 12	72/2008)
Short-term (acute) aquatic hazard, Cate-	H400: Very toxic to aquatic life.
gory 1 Long-term (chronic) aquatic hazard, Cat- egory 1	H410: Very toxic to aquatic life with long lasting effects.

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BROADWAY™ STAR

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004868	Date of first issue: 05.04.2024

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) Hazard pictograms Signal word Warning Hazard statements H410 Very toxic to aquatic life with long lasting effects. **Prevention:** Precautionary statements P280 Wear protective gloves. **Response:** P391 Collect spillage. **Disposal:** P501 Dispose of contents/container to a licensed waste disposal contractor or collection site except for empty clean triple rinsed containers which can be disposed of as non-hazardous waste.

Additional Labelling

EUH208 Contains formaldehyde, Cloquintocet-mexyl, pyroxsulam (ISO), Disodium maleate. May produce an allergic reaction.

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.

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

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

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components			
Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



	09.04.2024 800	080004868 Date	of first issue: 05.04.2024	ŧ
		Index-No. REACH Registration number		
Cloqu	intocet-mexyl	99607-70-2 01-2119381871-32- 0002, 01- 2119381871-32-0003, 01-2119403579-35- 0000	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	7.08
ругох	sulam (ISO)	422556-08-9 613-327-00-4	Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	7.01
floras	ulam (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	1.35
Sodiu	m lignosulfonate	8061-51-6	Eye Irrit. 2; H319	>= 10 - <
citric a	acid	77-92-9 201-069-1 607-750-00-3 01-2119457026-42	Eye Irrit. 2; H319	>= 3 - < 7
reacti	acid chlorides, C18 unsatd., on products with sodium N- /Itaurinate	Not Assigned 939-538-4 01-2119976349-20, 01-2119976349-20- 0003, 01- 2119976349-20-0004, 01-2119976349-20- 0005, 01- 2119976349-20-0006, 01-2119976349-20- 0007	Eye Irrit. 2; H319	>= 1 - <
Disod	ium maleate	371-47-1 206-738-1	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1B; H317 STOT SE 3; H335	>= 0.3 - <

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024	
			(Respiratory system)	
For e	explanation of abbrevia	ations see section 16.		

SECTION 4: First aid measures

4.1	Description of first aid measure	ure	S
	Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical re- sistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.
	If inhaled	:	Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respi- ration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control center or doctor for treatment advice.
	In case of skin contact	:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Suitable emergency safety shower facility should be available in work area.
	In case of eye contact	:	Hold eyes open and rinse slowly and gently with water for 15- 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice. Suitable emergency eye wash facility should be available in work area.
	If swallowed	:	No emergency medical treatment necessary.
4.2		nd e	effects, both acute and delayed
	None known.		
4.3	Indication of any immediate	neo	dical attention and special treatment needed
	Treatment	:	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product con- tainer or label with you when calling a poison control center or

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water spray Alcohol-resistant foam

doctor, or going for treatment.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Vers 1.1	sion	Revision Date: 09.04.2024		9S Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
	Unsuita media	ble extinguishing	:	None known.	
5.2 \$	Special	hazards arising from	the	substance or mix	kture
	Specific fighting	c hazards during fire-	:		bustion products may be a hazard to health. off from fire fighting to enter drains or water
	Hazard ucts	ous combustion prod-	:	Nitrogen oxides (N Carbon oxides	NOx)
5.3	Advice	for firefighters			
	Special for firefi	protective equipment ghters	:		ed breathing apparatus for firefighting if nec- onal protective equipment.
	ods	c extinguishing meth-	:	so. Evacuate area. Use extinguishing cumstances and t Use water spray t Collect contamina must not be disch Fire residues and	ged containers from fire area if it is safe to do measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Avoid dust formation. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
6.2 Environmental precautions	
Environmental precautions	 If the product contaminates rivers and lakes or drains inform respective authorities. Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained. Prevent from entering into soil, ditches, sewers, underwater. See Section 12, Ecological Information.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in.
		employed in.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004868	Date of first issue: 05.04.2024
		Recovered mat The vent must with spilled mat pressurization Keep in suitabl Sweep up or va tainer for dispo	range disposal without creating dust. terial should be stored in a vented container. prevent the ingress of water as further reaction terials can take place which could lead to over- of the container. e, closed containers for disposal. acuum up spillage and collect in suitable con- sal. g, Disposal Considerations, for additional infor-

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

7.1 Precautions for sale handlin	g			
Advice on safe handling	:	 Handle in accordance with good industrial hygiene and safety practice. Smoking, eating and drinking should be prohibited in the application area. Take care to prevent spills, waste and minimize release to the environment. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. 		
7.2 Conditions for safe storage, including any incompatibilities				
1.2 Conditions for sale storage,	IIIC	iduning any incompationnes		
Requirements for storage areas and containers	:	Store in a closed container. Containers which are opened must be carefully resealed and kept upright to prevent leak- age. Keep in properly labelled containers. Store in accordance with the particular national regulations.		
Advice on common storage	:	Strong oxidizing agents		
Packaging material	:	Unsuitable material: None known.		
7.3 Specific end use(s)				
Specific use(s)	:	Plant protection products subject to Regulation (EC) No 1107/2009.		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No. Value type (Form of exposure)		Control parameters	Basis
Kaolin	1332-58-7	Occupational exposure limit value (8-hour	2 mg/m3	IE OEL

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY[™] STAR

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.20 Date of first issue: 05.04.20	
		reference pe (Respirable o		
		Long term ex sure limit (Re pirable dust)		2004/37/EC
	Furth	er information: Carcino	gens or mutagens	

8.2 Exposure controls

Engineering measures

Use engineering controls to maintain airborne level below exposure limit requirements or guidelines.

If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation.

Local exhaust ventilation may be necessary for some operations.

Personal protective equipm Eye/face protection Hand protection	ient	Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.
Remarks	:	Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro- organisms. Examples of preferred glove barrier materials include: Polyvinyl chloride ("PVC" or "vinyl"). Neoprene. Ni- trile/butadiene rubber ("nitrile" or "NBR"). When prolonged or frequently repeated contact may occur, a glove is recom- mended to prevent contact with the solid material. Glove thickness alone is not a good indicator of the level of protec- tion a glove provides against a chemical substance as this level of protection is also highly dependent on the specific composition of the material that the glove is fabricated from. The thickness of the glove must, depending on model and type of material, generally be more than 0.35 mm to offer sufficient protection for prolonged and frequent contact with the substance. As an exception to this general rule it is known that multilayer laminate gloves may offer prolonged protection at thicknesses less than 0.35 mm. Other glove materials with a thickness of less than 0.35 mm may offer

Skin and body protection Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines.

sufficient protection when only brief contact is expected. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove

supplier.

:

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version	Revision Date: 09.04.2024	SDS Number:	Date of last issue: 05.04.2024
1.1		800080004868	Date of first issue: 05.04.2024
		guidelines, use Selection of air depend on the concentration For emergency	applicable exposure limit requirements or e an approved respirator. r-purifying or positive-pressure supplied-air will specific operation and the potential airborne of the material. y conditions, use an approved positive-pressure breathing apparatus.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Granules.
Colour	:	Tan
Odour	:	Musty
Odour Threshold	:	No test data available
Melting point/range	:	No test data available
Freezing point		Not applicable
Boiling point/boiling range	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Method: closed cup Not applicable
Auto-ignition temperature	:	244 °C Method: EC Method A16 Ramped Temperature
рН	:	5.5 Concentration: 1 % Method: CIPAC MT 75 (1% dispersion)
Viscosity Viscosity, dynamic	:	Not applicable
Viscosity, kinematic	:	Not applicable

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024	
Vap	our pressure	: Not applicabl	e	
Rela	ative density	: No data avai	able	
Der	sity	: Not applicabl	e	
Bull	c density	: 0.58 g/cm3M	ethod: Tapped Volumetric	
Rela	ative vapour density	: Not applicabl	e	
9.2 Othe	r information			
Exp	losives	: No Method: EEC	CA14	
Oxio	dizing properties	: No		
Self	-ignition	: No data avai	able	
Sur	face tension	: No data avai	able	

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

10.2 Chemical stability

No decomposition if stored and applied as directed. Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions	:	Stable under recommended storage conditions. No hazards to be specially mentioned. None known.
---------------------	---	--

10.4 Conditions to avoid

Conditions to avoid : None known.

10.5 Incompatible materials

Materials to avoid	: Strong acids
	Strong bases

10.6 Hazardous decomposition products

Carbon oxides

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004868	Date of first issue: 05.04.2024

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity		
Product: Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Method: OECD Test Guideline 425 Remarks: Based on data from similar materials
Acute inhalation toxicity	:	Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Based on data from similar materials
Components:		
Cloquintocet-mexyl:		
Acute oral toxicity	:	LD50 (Rat, female): > 2,000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5.42 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg
pyroxsulam (ISO):		
Acute oral toxicity	:	LD50 (Rat, female): > 5,000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	:	LC50 (Rat): > 5.42 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 436 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala- tion toxicity
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute dermal

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



/ersion .1	Revision Date: 09.04.2024	SDS Number:Date of last issue: 05.04.2024800080004868Date of first issue: 05.04.2024
		toxicity
	sulam (ISO): e oral toxicity	: LD50 (Rat): > 6,000 mg/kg
		LD50 (Mouse): > 5,000 mg/kg
Acute inhalation toxicity		 LC50 (Rat): > 5.0 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala tion toxicity
Acute	e dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute dermatoxicity
	um lignosulfonate:	
Acute	e oral toxicity	: LD50 (Rat, male and female): > 10,000 mg/kg
Acute	e inhalation toxicity	 LC50 (Rat): 0.48 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala tion toxicity
citric	acid:	
Acute	e oral toxicity	: LD50 (Mouse): 5,400 mg/kg Assessment: The substance or mixture has no acute oral to icity
		LD50 (Rat): 3,000 - 12,000 mg/kg
Acute	e dermal toxicity	 LD50 (Rabbit): > 2,000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute dermatoxicity
Fatty	acid chlorides, C18	unsatd., reaction products with sodium N-methyltaurinate:
-	e oral toxicity	 LD50: > 4,000 mg/kg Method: OECD Test Guideline 401 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute oral to icity
Acute	e dermal toxicity	 LD50: > 2,000 mg/kg Method: OECD Test Guideline 402 Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute dermand

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY[™] STAR

toxicity toxicity Discolum maleate: LD50 (Rat): 3,380 mg/kg Skin corrosion/irritation Ender Status Species Rabbit Method 20 CCD Test Guideline 404 Result 0 Skin irritation Result 0 Skin irritation Components: Image: Status citric acid: Image: Status Result Image: Status Species Rabbit Method Image: Status Species Rabbit Species Rabbit Species No eye iritritation </th <th>rsion</th> <th>Revision Date: 09.04.2024</th> <th>SDS Number: 800080004868</th> <th>Date of last issue: 05.04.2024 Date of first issue: 05.04.2024</th>	rsion	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
Acute oral toxicity : LD50 (Rat): 3,380 mg/kg Skin corrosion/irritation			toxicity	
Skin corrosion/irritation Product: Species : Result : Method : Result : Remarks : Based on data from similar materials Components: citric acid: Result : Result : No skin irritation Result : Result : No skin irritation Disodium maleate: Species : Result : Method : Decco Test Guideline 405 Result : Method : Species : Result : Method : Result : <td>Disod</td> <td>lium maleate:</td> <td></td> <td></td>	Disod	lium maleate:		
Product: Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Result : Based on data from similar materials Components: : Sased on data from similar materials citric acid: : . Result : No skin irritation Disodium maleate: : . Species : Rabbit Result : Skin irritation Serious eye damage/eye irritation . Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Result : No eye irritation Result : OECD Test Guideline 405 Result : No eye irritation Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Species : Rabbit Method : OECD Test Guideline 405 <t< td=""><td>Acute</td><td>oral toxicity</td><td>: LD50 (Rat):</td><td>3,380 mg/kg</td></t<>	Acute	oral toxicity	: LD50 (Rat):	3,380 mg/kg
Species : Rabbit Method : OECD Test Guideline 404 Result : No skin irritation Remarks : Based on data from similar materials Components: : citric acid: : Result : No skin irritation Disodium maleate: : Species : Result : No skin irritation Disodium maleate: Species : Result : No skin irritation Product: Species : Result : No eye irritation Result : No eye irritation Result : Species : Result : No eye irritation Result : No eye irritation Result : Species : Result : No eye irritation Result : No eye irritation Species : : Species : : Species : : : <p< td=""><td>Skin d</td><td>corrosion/irritation</td><td></td><td></td></p<>	Skin d	corrosion/irritation		
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Remarks : Based on data from similar materials Components:	Metho	bd	: OECD Test	Guideline 404
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Disodium maleate: Species : Result : Serious eye damage/eye irritation Serious eye damage/eye irritation Species : Species : Result : OECD Test Guideline 405 Result : Method : OECD Test Guideline 405 Result : No eye irritation Remarks : Based on data from similar materials Components: Pyroxsulam (ISO): Species : Result : No eye irritation Species : Result : Nethod : OECD Test Guideline 405 Result : No eye irritation Station Sections Sections Sections Sections Sections Result Sodium lignosulfonate: Result Result Result Sections Sections Sections Result Sections Result Result </td <td>citric</td> <td>acid:</td> <td></td> <td></td>	citric	acid:		
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Result : Skin irritation Serious eye damage/eye irritation Product: Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Remarks : Based on data from similar materials Components: : pyroxsulam (ISO): : Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Sodium lignosulfonate: : Result : Eye irritation Citric acid: : Result : Eye irritation Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:	Specie	es	: Rabbit	
Product: Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Remarks : Based on data from similar materials Components: pyroxsulam (ISO): Species : Rabbit Method : OECD Test Guideline 405 Result : DECD Test Guideline 405 Result : Eye irritation Sodium lignosulfonate: Result Result : Eye irritation Citric acid: Eye irritation Result : Eye irritation Fatty acid chlorides, C18 unstruct., reaction products with sodium N-methyltaurinate:				n
Species:RabbitMethod:OECD Test Guideline 405Result:No eye irritationRemarks:Based on data from similar materialsComponents:pyroxsulam (ISO):Species:RabbitMethod:OECD Test Guideline 405Result:No eye irritationSodium lignosulfonate: Result:No eye irritationCitric acid: Result:Eye irritationFatty acid chlorides, C18 urstd., reaction products with sodium N-methyltaurinate:	Serio	us eye damage/eye	irritation	
Method:OECD Test Guideline 405Result:No eye irritationRemarks:Based on data from similar materialsComponents:pyroxsulam (ISO):Species:RabbitMethod:OECD Test Guideline 405Result:No eye irritationSodium lignosulfonate:Result:Eye irritationcitric acid:Result:Eye irritationFatty acid chlorides, C18 urstd., reaction products with sodium N-methyltaurinate:				
Result:No eye irritationRemarks:Based on data from similar materialsComponents::pyroxsulam (ISO)::Species:RabbitMethod:OECD Test Guideline 405Result:No eye irritationSodium lignosulfonate::Result:Eye irritationCitric acid::Result:Easult:Fatty acid chlorides, C18 urstd., reaction products with sodium N-methyltaurinate:				
Remarks:Based on data from similar materialsComponents:				
Components: pyroxsulam (ISO): Species : Method : Method : Result : Sodium lignosulfonate: : Result : Subject : Subject : Result : Subject : Result : Subject : Result : Experiment				
pyroxsulam (ISO): Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Sodium lignosulfonate: : Eye irritation Result : Eye irritation Sodium lignosulfonate: : Eye irritation Result : Eye irritation Sodium lignosulfonate: : Eye irritation Result : Eye irritation Citric acid: : Eye irritation Result : Eye irritation Fatty acid chlorides, C18 ust-t, reaction products with sodium N-methyltaurinate:	Rema	irks	: Based on da	ata from similar materials
Species : Rabbit Method : OECD Test Guideline 405 Result : No eye irritation Sodium lignosulfonate: : Eye irritation Result : Eye irritation Citric acid: : Eye irritation Result : Eye irritation Fatty acid chlorides, C18 urst-, reaction products with sodium N-methyltaurinate:	<u>Comp</u>	oonents:		
Method : OECD Test Guideline 405 Result : No eye irritation Sodium lignosulfonate: . Result : Eye irritation citric acid: . Result : Eye irritation citric acid: . . Result : Eye irritation Fatty acid chlorides, C18 urst., reaction products with sodium N-methyltaurinate: .				
Result : No eye irritation Sodium lignosulfonate: : Eye irritation Result : Eye irritation citric acid: : Eye irritation Result : Eye irritation Fatty acid chlorides, C18 urst., reaction products with sodium N-methyltaurinate:				
Sodium lignosulfonate: Result : Eye irritation citric acid: Result : Eye irritation Fatty acid chlorides, C18 unstructure, reaction products with sodium N-methyltaurinate:				
Result : Eye irritation citric acid: . . Result : Eye irritation Fatty acid chlorides, C18 unstructure, reaction products with sodium N-methyltaurinate: .	Resul	t	: No eye irrita	tion
citric acid: Result : Eye irritation Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:	Sodiu	Im lignosulfonate:		
Result : Eye irritation Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:	Resul	t	: Eye irritatior	1
Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate:	citric	acid:		
	Resul	t	: Eye irritation)
	Fattv	acid chlorides. C18	unsatd., reaction r	products with sodium N-methyltaurinate:
	Resul		-	

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



ersion 1	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024			
Disod	lium maleate:					
Specie	es	: Rabbit				
Resul		: Eye irritation				
Respi	ratory or skin sens	itisation				
<u>Produ</u>	<u>ict:</u>					
Test T	Туре	: Local lymph r	node assay (LLNA)			
Specie		: Mouse				
	sment		se skin sensitisation.			
Metho		: OECD Test G				
Remarks : For similar material(s):						
Comp	oonents:					
-	iintocet-mexyl:					
Specie		: Guinea pig				
Asses	sment	: May cause se	ensitisation by skin contact.			
pyrox	sulam (ISO):					
Test T	уре	: Local lymph r	node assay			
Specie		: Mouse				
Asses	sment	: Does not cau	: Does not cause skin sensitisation.			
floras	sulam (ISO):					
Rema	rks	: Did not cause pigs.	allergic skin reactions when tested in guinea			
Rema	rks		For respiratory sensitization: No relevant data found.			
	Im lignosulfonate:					
Rema	rks	: Did not cause pigs.	allergic skin reactions when tested in guinea			
Rema	rks	: For respirator	y sensitization:			
rtoma		No relevant d				
Fattv	acid chlorides. C18	unsatd., reaction pr	oducts with sodium N-methyltaurinate:			
Rema		: For skin sens	-			
. conta			nstrate the potential for contact allergy in mice			
Rema	rks	: For respirator No relevant d	y sensitization: ata found.			
Disod	lium maleate:					
Test T		: Maximisation	Test			
Specie		: Guinea pig				

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



Vers 1.1	sion	Revision Date: 09.04.2024	-	0S Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
	Assess Method		:	The product is a s OECD Test Guide	skin sensitiser, sub-category 1B. eline 406
	Test Ty Specie Assess Method	sment	: : :	Local lymph node Mouse The product is a s OECD Test Guide	skin sensitiser, sub-category 1B.
	Germ o	cell mutagenicity			
	Compo	onents:			
	Cloqui	ntocet-mexyl:			
	Germ o sessme	cell mutagenicity- As- ent	:	In vitro genetic to: toxicity studies we	xicity studies were negative., Animal genetic ere negative.
	pyroxs	sulam (ISO):			
	Germ o sessme	ell mutagenicity- As- ent	:	In vitro genetic to: toxicity studies we	xicity studies were negative., Animal genetic ere negative.
	florası	ılam (ISO):			
	Germ o sessme	cell mutagenicity- As- ent	:	In vitro genetic to: toxicity studies we	xicity studies were negative., Animal genetic ere negative.
	Sodiur	n lignosulfonate:			
	Germ o sessme	cell mutagenicity- As- ent	:	In vitro genetic to:	xicity studies were negative.
	citric a				
	Germ o sessme	cell mutagenicity- As- ent	:	In vitro genetic to toxicity studies we	xicity studies were negative., Animal genetic ere negative.
	Fatty a	cid chlorides, C18 ur	nsat	d., reaction produ	cts with sodium N-methyltaurinate:
	Germ o sessme		:	In vitro genetic to:	xicity studies were negative.
	Carcin	ogenicity			
	Produce Carcino ment	zt: ogenicity - Assess-	:	Animal testing dic	I not show any carcinogenic effects.
	Compo	onents:			
		ntocet-mexyl: ogenicity - Assess-	:	Did not cause car	ncer in laboratory animals.
		sulam (ISO): ogenicity - Assess-	:		cal evidence of carcinogenic activity in long- hese effects are not believed to be relevant

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



to humans. florasulam (ISO): Carcinogenicity - Assess- : Did not cause cancer in laboratory animals. ment Carcinogenicity - Assess- : Did not cause cancer in laboratory animals. ment Reproductive toxicity Components: Cloquintocet-mexyl: Reproductive toxicity - Assessment pyroxsulam (ISO): Reproductive toxicity - Assessment Did not cause birth defects or any other fetal effects in laboratory animals. prosulam (ISO): Reproductive toxicity - Assessment Did not cause birth defects or any other fetal effects in laboratory animals. florasulam (ISO): Reproductive toxicity - Assessment Citric acid: Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. Citric acid: : Reproductive toxicity - Assessment : Did not cause birth defects or any other fetal effects in laboratory animals. Florasulam (BO): : Reproductive toxicity - Assessment : <th>ersion 1</th> <th>Revision Date: 09.04.2024</th> <th></th> <th>OS Number: 0080004868</th> <th>Date of last issue: 05.04.2024 Date of first issue: 05.04.2024</th>	ersion 1	Revision Date: 09.04.2024		OS Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
Carcinogenicity - Assessment Did not cause cancer in laboratory animals. citric acid: Carcinogenicity - Assessment Carcinogenicity - Assessment Did not cause cancer in laboratory animals. Reproductive toxicity Components: Cloquintocet-mexyl: Reproductive toxicity - Assessment Reproductive toxicity - Assessment Did not cause birth defects or any other fetal effects in laboratory animals. pyroxsulam (ISO): Reproductive toxicity - Assessment Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. florasulam (ISO): Reproductive toxicity - Assessment Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Sessment STOT - single exposure In animal studies, did not interfere with reproduction. Sessement STOT -				to humans.	
Carcinogenicity - Assessment : Did not cause cancer in laboratory animals. Reproductive toxicity Components: Cloquintocet-mexyl: Reproductive toxicity - Assessment Reproductive toxicity - Assessment : Did not cause birth defects or any other fetal effects in laboratory animals. pyroxsulam (ISO): Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. florasulam (ISO): Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or only other fetal effects in laboratory animals. florasulam (ISO): Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment STOT - single exposure : In animal studies, did not interfere with reproduction. Sessment STOT - single exposure : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: : Cloqu	Carcinogenicity - Assess-		:	Did not cause of	ancer in laboratory animals.
Components: Cloquintocet-mexyl: Reproductive toxicity - Assessment pyroxsulam (ISO): Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor. Did not cause birth defects or any other fetal effects in labor. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the fetus even doses which caused toxic effects in the fetus even doses which cause birth defects or any other fetal effects in labor. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: : Reproductive toxicity - Assessment : : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor. Tory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment : STOT - single exposure : Product: : Assessment : : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: : Cloquintocet-mexyl: : Assessment :	Carc	inogenicity - Assess-	:	Did not cause o	ancer in laboratory animals.
Cloquintocet-mexyl: Reproductive toxicity - Assessment pyroxsulam (ISO): Reproductive toxicity - Assessment in animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. florasulam (ISO): Reproductive toxicity - Assessment florasulam (ISO): Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. citric acid: In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. sessment In animal studies, did not interfere with reproduction. sessment In animal studies, did not interfere with reproduction. sesss	Rep	roductive toxicity			
Reproductive toxicity - Assessment Did not cause birth defects or any other fetal effects in labor tory animals. pyroxsulam (ISO): Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor tory animals. florasulam (ISO): Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor tory animals. citric acid: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor tory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment STOT - single exposure In animal studies, did not interfere with reproduction. Sessment STOT - single exposure Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment Available data are inadequate to determine single exposure	Com	ponents:			
Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor. tory animals. florasulam (ISO): In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in the fetus even doses which caused toxic effects in the mother. citric acid: In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor. Tory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor. Tory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. STOT - single exposure Product: Assessment Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment Available data are inadequate to determine single exposure	Repr	roductive toxicity - As-	:		pirth defects or any other fetal effects in labora-
Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor. tory animals. florasulam (ISO): In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in the fetus even doses which caused toxic effects in the mother. citric acid: In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor. Tory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor. Tory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. STOT - single exposure Product: Assessment Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment Available data are inadequate to determine single exposure	pyro	oxsulam (ISO):			
Reproductive toxicity - As- sessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: Reproductive toxicity - As- sessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor tory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - As- sessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in labor tory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - As- sessment : In animal studies, did not interfere with reproduction. sessment STOT - single exposure : In animal studies, did not interfere with reproduction. sessment Components: Assessment : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Cloquintocet-mexyl: Assessment : Available data are inadequate to determine single exposure	Repr	roductive toxicity - As-	:	Did not cause b	
Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or other effects in the fetus even doses which caused toxic effects in the mother. citric acid: Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. STOT - single exposure : In animal studies, did not interfere with reproduction. : In animal studies, did not interfere with reproduction. Product: : Assessment : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: : Available data are inadequate to determine single exposure	flora	isulam (ISO):			
Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Seessment STOT - single exposure : In animal studies, did not interfere with reproduction. Seessment Assessment : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment : Available data are inadequate to determine single exposure	Repr	roductive toxicity - As-	:	Did not cause b	wirth defects or other effects in the fetus even at
sessment Did not cause birth defects or any other fetal effects in laboratory animals. Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Reproductive toxicity - As-sessment In animal studies, did not interfere with reproduction. STOT - single exposure Product: Assessment : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment : Assessment : Available data are inadequate to determine single exposure	citric	c acid:			
Reproductive toxicity - Assessment In animal studies, did not interfere with reproduction. STOT - single exposure Product: Assessment : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment : Available data are inadequate to determine single exposure			:	Did not cause b	
Reproductive toxicity - As- sessment In animal studies, did not interfere with reproduction. STOT - single exposure Product: Assessment Assessment : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment Assessment : Available data are inadequate to determine single exposure	Fatty	v acid chlorides. C18 u	insat	d reaction pro	ducts with sodium N-methyltaurinate.
Product: Assessment : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment : Available data are inadequate to determine single exposure	Repr	roductive toxicity - As-		· ·	-
Assessment : Evaluation of available data suggests that this material is no an STOT-SE toxicant. Components: : Cloquintocet-mexyl: Assessment : Available data are inadequate to determine single exposure	STO	T - single exposure			
an STOT-SE toxicant. Components: Cloquintocet-mexyl: Assessment : Available data are inadequate to determine single exposure	Proc	luct:			
Cloquintocet-mexyl: Assessment : Available data are inadequate to determine single exposure	Asse	essment	:		
Assessment : Available data are inadequate to determine single exposure	Com	ponents:			
	Cloq	uintocet-mexyl:			
	Asse	essment	:		

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



ersion 1	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
citric	acid:		
Asses	ssment		ta are inadequate to determine single exposure et organ toxicity.
Fatty	acid chlorides, C18	unsatd., reaction p	products with sodium N-methyltaurinate:
Asses	ssment		ta are inadequate to determine single exposure et organ toxicity.
Disod	dium maleate:		
Expos	sure routes	: Inhalation	
	et Organs	: Respiratory	
Asses	ssment	: May cause r	espiratory irritation.
STOT	- repeated exposu	e	
Produ	uct:		
Asses	ssment	: Evaluation o an STOT-RE	f available data suggests that this material is no E toxicant.
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
Cloqu	uintocet-mexyl:		
Rema	arks	: In animals, e gans: Liver. Kidney. Thymus. Thyroid. Bladder. Bone marrov	effects have been reported on the following or-
pyrox	(ISO):		
Rema		: In animals, e gans: Liver.	ffects have been reported on the following or-
floras	sulam (ISO):		
Rema	arks	: In animals, e gans: Kidney.	effects have been reported on the following or-
Sodiı	um lignosulfonate:		
Rema	arks		ailable data, repeated exposures are not antici- se significant adverse effects.
citric	acid:		
-			

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024						
Rema	arks		: Based on available data, repeated exposures are not anticipated to cause significant adverse effects.						
Fatty	acid chlorides, C18	unsatd., reaction pro	oducts with sodium N-methyltaurinate:						
Rema	arks	: No relevant da	ta found.						
Aspi	Aspiration toxicity								
Prod	uct:								
Base	Based on physical properties, not likely to be an aspiration hazard.								
Com	Components:								
Cloq	uintocet-mexyl:								
Base	d on physical propertie	es, not likely to be an a	aspiration hazard.						
pyro	xsulam (ISO):								
Base	Based on physical properties, not likely to be an aspiration hazard.								
flora	sulam (ISO):								
Base	d on physical propertie	es, not likely to be an a	aspiration hazard.						
	um lignosulfonate:								
Base	d on available informa	tion, aspiration hazard	l could not be determined.						
citric	acid:								
Base	d on physical propertie	es, not likely to be an a	aspiration hazard.						
•	Fatty acid chlorides, C18 unsatd., reaction products with sodium N-methyltaurinate: Based on physical properties, not likely to be an aspiration hazard.								
	Disodium maleate: Based on physical properties, not likely to be an aspiration hazard.								
	.2 Information on other hazards								
	Endocrine disrupting properties								
Prod									
	ssment	ered to have ered	/mixture does not contain components consid- ndocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 a or higher.						

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004868	Date of first issue: 05.04.2024

SECTION 12: Ecological information

12.1 Toxicity Product: Toxicity to fish Remarks: Material is very toxic to aquatic organisms (LC50/EC50/IC50 below 1 mg/L in the most sensitive species). LC50 (Oncorhynchus mykiss (rainbow trout)): 56 mg/l Exposure time: 96 h Remarks: For similar material(s): EC50 (Daphnia magna (Water flea)): > 100 mg/l Toxicity to daphnia and other : Exposure time: 48 h aquatic invertebrates Remarks: For similar material(s): ErC50 (Lemna minor (duckweed)): 0.026 mg/l Toxicity to algae/aquatic : plants End point: Growth rate inhibition Exposure time: 7 d ErC50 (Pseudokirchneriella subcapitata (green algae)): 1.4 mg/l Exposure time: 72 h Test Type: Growth inhibition Remarks: Information source: Internal study report **Ecotoxicology Assessment** Acute aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects. Components: **Cloquintocet-mexyl:** Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.97 mg/l Exposure time: 96 h Test Type: flow-through test Method: Method Not Specified. Remarks: As the ester active substance. Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 0.82 mg/l aquatic invertebrates Exposure time: 48 h Test Type: flow-through test Method: Method Not Specified. EbC50 (alga Scenedesmus sp.): 0.63 mg/l Toxicity to algae/aquatic plants End point: Biomass Exposure time: 96 h Method: Method Not Specified.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY[™] STAR

EbC50 (Lemna minor (duckweed)): > 0.42 mg/l End point: Biomass Exposure time: 14 d Method: Method Not Specified. Toxicity to soil dwelling or- ganisms Toxicity to terrestrial organ- isms oral LD50: > 2000 mg/kg diet. Exposure time: 8 d Species: Anas platyrhynchos (Mallard duck) ofertar LD50: > 100 micrograms/bee Exposure time: 8 d Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) Chronic aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life. Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent Te	Versi 1.1	on	Revision Date: 09.04.2024		9S Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
ganisms Species: Eisenia Tetida (earthworms) Toxicity to terrestrial organisms : oral LD50: > 2000 mg/kg bodyweight. Species: Anas platyrhynchos (Mallard duck) dietary LC50: > 5200 mg/kg diet. Exposure time: 8 d Species: Anas platyrhynchos (Mallard duck) oral LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) Chronic aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life. Pyroxsulam (ISO): : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent Toxicity to algae/aquatic plants : ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221. M-Factor (Acute aquatic tox- icity) : 100 : Exposure time: 3 h Toxicity to fish (Chronic tox- icity) : NOEC: 3.2 - 10.1 mg/l					End point: Biomas Exposure time: 14	ss I d
isms Species: Anas platyrhyrchos (Mallard duck) dietary LC50: > 5200 mg/kg diet. Exposure time: 8 d Species: Anas platyrhynchos (Mallard duck) oral LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) Chronic aquatic toxicity : Very toxic to aquatic life. Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects. pyroxsulam (ISO): : Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h : Test Type: static test Method: OECD Test Guideline 203 or Equivalent Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h :				:		
Exposure time: 8 d Species: Anas playrhynchos (Mallard duck)oral LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees) contact LD50: > 100 micrograms/bee Exposure time: 48 h Species: Apis mellifera (bees)Ecotoxicology Assessment Acute aquatic toxicity:Acute aquatic toxicity:Very toxic to aquatic life.Chronic aquatic toxicity:Very toxic to aquatic life with long lasting effects.pyroxsulam (ISO): Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or EquivalentToxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or EquivalentToxicity to algae/aquatic plants:ErC50 (Lemma minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221.M-Factor (Acute aquatic tox- icity):Toxicity to microorganisms:EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 hToxicity to fish (Chronic tox- city):	-		to terrestrial organ-	:		
Exposure time: 48 hSpecies: Apis mellifera (bees)contact LD50: > 100 micrograms/beeExposure time: 48 hSpecies: Apis mellifera (bees)Ecotoxicology AssessmentAcute aquatic toxicity:Very toxic to aquatic life.Chronic aquatic toxicity:Very toxic to aquatic life with long lasting effects.pyroxsulam (ISO):Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or EquivalentToxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent:ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221.M-Factor (Acute aquatic tox- icity)::100:::EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h:NOEC: 3.2 - 10.1 mg/l					Exposure time: 8	d
Exposure time: 48 h Species: Apis mellifera (bees)Ecotoxicology Assessment Acute aquatic toxicity:Very toxic to aquatic life.Chronic aquatic toxicity:Very toxic to aquatic life with long lasting effects.pyroxsulam (ISO): Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or EquivalentToxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or EquivalentToxicity to algae/aquatic plants:ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221.M-Factor (Acute aquatic tox- icity):Toxicity to microorganisms:EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 hToxicity to fish (Chronic tox- Exposure time: 3 h					Exposure time: 48	3 h
Acute aquatic toxicity:Very toxic to aquatic life.Chronic aquatic toxicity:Very toxic to aquatic life with long lasting effects.pyroxsulam (ISO)::Toxicity to fish:LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or EquivalentToxicity to daphnia and other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or EquivalentToxicity to algae/aquatic plants:ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221.M-Factor (Acute aquatic tox- icity):100Toxicity to microorganisms:EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 hToxicity to fish (Chronic tox- ::NOEC: 3.2 - 10.1 mg/l					Exposure time: 48	3 h
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects. pyroxsulam (ISO): Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent Toxicity to daphnia and other : aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent Toxicity to algae/aquatic : plants : ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221. M-Factor (Acute aquatic tox- : icity) Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h : Toxicity to fish (Chronic tox- : NOEC: 3.2 - 10.1 mg/l :	I	Ecotoxi	icology Assessment			
pyroxsulam (ISO): Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent Toxicity to algae/aquatic plants : ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221. M-Factor (Acute aquatic tox- icity) : 100 Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Toxicity to fish (Chronic tox- : NOEC: 3.2 - 10.1 mg/l	,	Acute a	quatic toxicity	:	Very toxic to aqua	tic life.
 Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent Toxicity to algae/aquatic plants ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221. M-Factor (Acute aquatic tox- icity) Toxicity to microorganisms EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Toxicity to fish (Chronic tox- icity) NOEC: 3.2 - 10.1 mg/l 	(Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
 Toxicity to fish LC50 (Oncorhynchus mykiss (rainbow trout)): > 87.0 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203 or Equivalent Toxicity to daphnia and other aquatic invertebrates EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent Toxicity to algae/aquatic plants ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221. M-Factor (Acute aquatic tox- icity) Toxicity to microorganisms EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Toxicity to fish (Chronic tox- icity) NOEC: 3.2 - 10.1 mg/l 		ovroxsi	ulam (ISO):			
aquatic invertebratesExposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or EquivalentToxicity to algae/aquatic plants:ErC50 (Lemna minor (duckweed)): 0.00257 mg/l End point: Biomass Exposure time: 72 h Method: OECD 221.M-Factor (Acute aquatic tox- icity):100Toxicity to microorganisms:EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 hToxicity to fish (Chronic tox- ::NOEC: 3.2 - 10.1 mg/l	-			:	Exposure time: 96 Test Type: static t	S h est
plantsEnd point: Biomass Exposure time: 72 h Method: OECD 221.M-Factor (Acute aquatic tox- icity):Toxicity to microorganisms:EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 hToxicity to fish (Chronic tox- ::NOEC: 3.2 - 10.1 mg/l				:	Exposure time: 48 Test Type: static t	3 h est
icity) Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l Exposure time: 3 h Toxicity to fish (Chronic tox- : NOEC: 3.2 - 10.1 mg/l			to algae/aquatic	:	End point: Biomas Exposure time: 72	ss 2 h
Exposure time: 3 h Toxicity to fish (Chronic tox- : NOEC: 3.2 - 10.1 mg/l			or (Acute aquatic tox-	:	100	
	-	Toxicity	to microorganisms	:		
			to fish (Chronic tox-	:		

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



Version 1.1	Revision Date: 09.04.2024		9S Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
			Exposure time: 40 Species: Pimepha Test Type: flow-th	lles promelas (fathead minnow)
aqu	icity to daphnia and other atic invertebrates (Chron- oxicity)	:	NOEC: 10.4 mg/l End point: surviva Exposure time: 21 Species: Daphnia Test Type: static t	d magna (Water flea)
	actor (Chronic aquatic	:	100	
Тох	city) icity to soil dwelling or- isms	:	LC50: > 10,000 m Exposure time: 14 Species: Eisenia f	
Tox ism:	icity to terrestrial organ- s	:	LC50: > 5000 mg/ Exposure time: 8 Species: Colinus v	
			LD50: > 2000 mg/ Species: Colinus v	′kg bodyweight. virginianus (Bobwhite quail)
			oral LD50: > 107.4 Exposure time: 48 Species: Apis mel	3 h
			contact LD50: > 1 Exposure time: 48 Species: Apis mel	
flor	asulam (ISO):			
Тох	icity to fish	:		I is very toxic to aquatic organisms below 1 mg/L in the most sensitive spe-
			Exposure time: 96 Test Type: static t	
	icity to daphnia and other atic invertebrates	:	Exposure time: 48 Test Type: static t	
Tox plar	icity to algae/aquatic hts	:	ErC50 (Pseudokir 0.00894 mg/l End point: Growth Exposure time: 72 Test Type: static t	chneriella subcapitata (green algae)): rate inhibition

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



	evision Date: 9.04.2024		S Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
			EC50 (Myriophyllu End point: Growth Exposure time: 14	
M-Factor icity)	(Acute aquatic tox-	:	100	
Toxicity to icity)	o fish (Chronic tox-	:	NOEC: 119 mg/l End point: mortali Exposure time: 28 Species: Oncorhy Test Type: flow-th	d nchus mykiss (rainbow trout)
			NOEC: > 2.9 mg/l End point: Other Exposure time: 33 Species: Pimepha Test Type: flow-th	d ales promelas (fathead minnow)
	o daphnia and other vertebrates (Chron-)	:	NOEC: 38.90 mg/ End point: growth Exposure time: 21 Species: Daphnia Test Type: semi-s	d magna (Water flea)
			End point: growth Exposure time: 21	magna (Water flea)
M-Factor toxicity)	(Chronic aquatic	:	100	
	o soil dwelling or-	:	LC50: > 1,320 mg Exposure time: 14 Species: Eisenia f	
Toxicity to isms	o terrestrial organ-	:	(LD50 between 50	I is slightly toxic to birds on an acute basis 01 and 2000 mg/kg). ally non-toxic to birds on a dietary basis n).
			oral LD50: 1047 n Species: Coturnix	ng/kg bodyweight. japonica (Japanese quail)
			dietary LC50: > 5, Exposure time: 8 Species: Anas pla	
			oral LD50: > 100 Exposure time: 48 Species: Apis me	3 h

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



Vers 1.1	sion	Revision Date: 09.04.2024		DS Number: 00080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
				contact LD50: > 1 Exposure time: 48 Species: Apis me	
	Sodiur	n lignosulfonate:			
	Toxicity	y to fish	:		al is not classified as dangerous to aquatic /EC50/IC50/LL50/EL50 greater than 100 sitive species).
				LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 615 mg/l 6 h
		y to daphnia and other invertebrates	:	Exposure time: 48 Test Type: static Method: OECD T	
	citric a	ıcid:			
	Toxicity	y to fish	:		al is not classified as dangerous to aquatic /EC50/IC50/LL50/EL50 greater than 100 sitive species).
				Exposure time: 96 Test Type: static	
				Exposure time: 96 Test Type: static	
		y to daphnia and other invertebrates	:	Exposure time: 24 Test Type: Static	nagna (Water flea)): > 1,535 mg/l 4 h est Guideline 202 or Equivalent
12.2	Persis	tence and degradabil	lity		
	Compo	onents:			
		sulam (ISO): radability	:	Test Type: aerobi Biodegradation: 2 Exposure time: 28 Method: OECD T Remarks: 10-day	20 - 30 % 8 d est Guideline 301B or Equivalent
	florası	ılam (ISO):			

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



Version 1.1	Revision Date: 09.04.2024		DS Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
Biod	Biodegradability		Result: Not biode Remarks: Materia the environment). biodegradability.	gradable I is expected to biodegrade very slowly (in Fails to pass OECD/EEC tests for ready
			Biodegradation: 2 Exposure time: 28 Method: OECD To Remarks: 10-day	3 d est Guideline 301B or Equivalent
	hemical Oxygen De- d (BOD)	:	0.012 kg/kg Incubation time: 5	d
ThO	D	:	0.85 kg/kg	
Stab	ility in water	:	Degradation half I	ife: > 30 d
Phot	odegradation	:	Rate constant: 7.0 Method: Estimate	
	ium lignosulfonate: egradability	:	the environment). biodegradability. Biodegradation:	
			Exposure time: 28 Method: OECD To Remarks: 10-day	est Guideline 301E
Phot	odegradation	:	Rate constant: 1.0 Method: Estimate	
citrie	c acid:			
Biod	egradability	:	Material is ultimat	I is expected to be readily biodegradable. ely biodegradable (reaches > 70% minerali- est(s) for inherent biodegradability).
			Test Type: aerobi Result: Readily bi Biodegradation: 9 Exposure time: 28 Method: OECD To Remarks: 10-day	odegradable. 97 % 3 d est Guideline 301B or Equivalent
				98 %

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
-	acid chlorides, C18 gradability	: Result: Readily	ducts with sodium N-methyltaurinate: biodegradable. rial is readily biodegradable. Passes OECD
			<i>i</i> biodegradability.
		Method: OECD	Test Guideline 301D
12.3 Bioac	cumulative potentia	1	
<u>Comp</u>	oonents:		
Cloqu	iintocet-mexyl:		
Bioac	cumulation	: Species: Fish Bioconcentratio	n factor (BCF): 122 - 621
	on coefficient: n- bl/water	: log Pow: 5.2 (2 pH: 7	5 °C)
pyrox	sulam (ISO):		
	on coefficient: n- ol/water	: log Dour, 1.01	
		log Pow: -1.01 Method: Measu Remarks: Bioco Pow < 3).	rred oncentration potential is low (BCF < 100 or Log
floras	ulam (ISO):		
Bioac	cumulation	: Species: Fish Exposure time: Temperature: 1 Bioconcentration Method: Measu	3 °C n factor (BCF): 0.8
	on coefficient: n- ol/water	:	
		log Pow: -1.22 pH: 7.0 Remarks: Bioco Pow < 3).	oncentration potential is low (BCF < 100 or Log
Sodiu	m lignosulfonate:		
Bioac	cumulation	: Species: Fish Bioconcentratio	on factor (BCF): 3.2
	on coefficient: n- ol/water	:	
		log Pow: -3.45 Method: Estima Remarks: Bioco Pow < 3).	ated. oncentration potential is low (BCF < 100 or Log

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



Version 1.1	Revision Date: 09.04.2024		DS Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
citrie	c acid:			
Bioa	ccumulation	:	Species: Fish Bioconcentration Method: Measur	n factor (BCF): 0.01 red
	tion coefficient: n- nol/water	:	log Pow: -1.72 (: Method: Measur Remarks: Bioco Pow < 3).	
-			-	lucts with sodium N-methyltaurinate:
	tion coefficient: n- nol/water	:	Remarks: No re	levant data found.
Diso	dium maleate:			
	tion coefficient: n- nol/water	:	Remarks: No re	levant data found.
12.4 Mob	ility in soil			
Com	ponents:			
Cloc	uintocet-mexyl:			
	ibution among environ- tal compartments	:	Koc: 38070 Method: Estimat Remarks: Expect 5000).	ed. cted to be relatively immobile in soil (Koc >
pyro	oxsulam (ISO):			
	ibution among environ- tal compartments	:	Koc: <= 42 Method: Estimat Remarks: Poten tween 0 and 50)	tial for mobility in soil is very high (Koc be-
flora	sulam (ISO):			
	ibution among environ- tal compartments	:	Koc: 4 - 54 Remarks: Poten tween 0 and 50)	tial for mobility in soil is very high (Koc be-
Stab	ility in soil	:	Dissipation time	: 0.7 - 4.5 d
Sodi	ium lignosulfonate:			
	ibution among environ- tal compartments	:	Koc: > 999999 Method: Estimat Remarks: Expect 5000).	ed. Sted to be relatively immobile in soil (Koc >
citrie	c acid:			
Distr	ibution among environ-	:	Remarks: No rel	levant data found.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



ersion 1	Revision Date: 09.04.2024		OS Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
menta	al compartments			
Fatty	acid chlorides, C18 u	nsat	d., reaction pro	ducts with sodium N-methyltaurinate:
	bution among environ- al compartments	:	Remarks: No r	elevant data found.
.5 Resu	llts of PBT and vPvB a	sse	ssment	
Prod				
Asses	ssment	:	to be either pe	/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or and very bioaccumulative (vPvB) at levels of
<u>Com</u>	oonents:			
Cloqu	uintocet-mexyl:			
Asses	ssment	:	lating and toxic	e is not considered to be persistent, bioaccume ; (PBT) This substance is not considered to b and very bioaccumulating (vPvB).
pyrox	ksulam (ISO):			
Asses	ssment	:	lating and toxic	e is not considered to be persistent, bioaccum (PBT) This substance is not considered to b and very bioaccumulating (vPvB).
floras	sulam (ISO):			
Asses	ssment	:	lating and toxic	e is not considered to be persistent, bioaccum ; (PBT) This substance is not considered to b and very bioaccumulating (vPvB).
Sodiı	um lignosulfonate:			
Asses	ssment	:		e has not been assessed for persistence, bioa I toxicity (PBT).
citric	acid:			
Asses	ssment	:	lating and toxic	e is not considered to be persistent, bioaccum ; (PBT) This substance is not considered to b and very bioaccumulating (vPvB).
Fatty	acid chlorides, C18 u	nsat	d., reaction pro	ducts with sodium N-methyltaurinate:
Asses	ssment	:		e has not been assessed for persistence, bioa I toxicity (PBT).
Disod	dium maleate:			
Asses	ssment	:		has not been assessed for persistence, bioa I toxicity (PBT).

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
12.6 End	ocrine disrupting prop	perties	
Prod	luct:		
Asse	essment	ered to hav REACH Art (EU) 2017/	nce/mixture does not contain components consid- e endocrine disrupting properties according to icle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 at 1% or higher.
12.7 Othe	er adverse effects		
<u>Com</u>	ponents:		
Cloq	uintocet-mexyl:		
Ozor	ne-Depletion Potential		his substance is not on the Montreal Protocol list es that deplete the ozone layer.
pyro	xsulam (ISO):		
Ozor	ne-Depletion Potential		his substance is not on the Montreal Protocol list es that deplete the ozone layer.
flora	sulam (ISO):		
Ozor	ne-Depletion Potential		his substance is not on the Montreal Protocol list es that deplete the ozone layer.
Sodi	um lignosulfonate:		
	ne-Depletion Potential		his substance is not on the Montreal Protocol list es that deplete the ozone layer.
citric	c acid:		
Ozor	ne-Depletion Potential		his substance is not on the Montreal Protocol list es that deplete the ozone layer.
Fatty	acid chlorides, C18 ر	Insatd., reaction	products with sodium N-methyltaurinate:
-	ne-Depletion Potential	: Remarks: 1	This substance is not on the Montreal Protocol list test that deplete the ozone layer.
Diso	dium maleate:		
	ne-Depletion Potential		This substance is not on the Montreal Protocol list es that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1 Waste treatment methods		
Product	:	If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



Version 1.1	Revision Date: 09.04.2024	-	DS Number: 00080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
			This information p as supplied. The listing may not ap wise contaminate ator to determine material generate tion and disposal lations. If the material as	with your local or area regulatory authorities. presented below only applies to the material identification based on characteristic(s) or oply if the material has been used or other- ed. It is the responsibility of the waste gener- the toxicity and physical properties of the ed to determine the proper waste identifica- methods in compliance with applicable regu- supplied becomes a waste, follow all appli- ational and local laws.
SECTI	ON 14: Transport infor	mat	tion	
14.1 UN	I number or ID number			
AD	DR	:	UN 3077	
RI	D	:	UN 3077	
IM	DG	:	UN 3077	
IA	ΤΑ	:	UN 3077	
14.2 UN	I proper shipping name			
AD	DR	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
RII	D	:	N.O.S.	ALLY HAZARDOUS SUBSTANCE, SOLID,
IM	DG	:	ENVIRONMENT N.O.S. (Pyroxsulam, Clo	ALLY HAZARDOUS SUBSTANCE, SOLID,
IA	ΓΑ	:	Environmentally (Pyroxsulam, Clo	hazardous substance, solid, n.o.s. quintocet-mexyl)
14.3 Tra	ansport hazard class(es)			
			Class	Subsidiary risks
AD	DR	:	9	
RI	D	:	9	
IM	DG	:	9	
IA		:	9	
14.4 Pa	cking group			
Cla	DR cking group assification Code zard Identification Number	:	III M7 90	

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version 1.1	Revision Date: 09.04.2024		DS Number: 0080004868	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
Labels Tunnel	restriction code	:	9 (-)	
	g group cation Code Identification Number	:	III M7 90 9	
IMDG Packing Labels EmS C Remark	ode	:	III 9 F-A, S-F Stowage category	/ A
aircraft	g instruction (cargo) g instruction (LQ)	:	956 Y956 III Miscellaneous	
Packing ger airc	g instruction (LQ)	:	956 Y956 III Miscellaneous	
14.5 Enviro	nmental hazards			
ADR Enviror	mentally hazardous	:	yes	
RID Enviror	mentally hazardous	:	yes	
	pollutant	:	yes(Pyroxsulam,	Cloquintocet-mexyl)

14.6 Special precautions for user

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

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004868	Date of first issue: 05.04.2024

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	: Not applicable
Regulation (EC) No 649/2012 of the European Parlia- ment and the Council concerning the export and import of dangerous chemicals	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Seveso III: Directive 2012/18/EU of the Euro- pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	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.

The mixture is evaluated within the frame of the provisions of Regulation (EC) No. 1107/2009. Refer to the label for exposure assessment information.

SECTION 16: Other information

Information Source and References

This SDS is prepared by Product Regulatory Services and Hazard Communications Groups from information supplied by internal references within our company.

Full text of H-Statements

H315 :	Causes skin irritation.
H317 :	May cause an allergic skin reaction.
H319 :	Causes serious eye irritation.
H335 :	May cause respiratory irritation.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.
Full text of other abbreviations	
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Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Irrit.	: Eye irritation
Skin Irrit.	: Skin irritation
Skin Sens.	: Skin sensitisation
STOT SE	: Specific target organ toxicity - single exposure

according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



BROADWAY™ STAR

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2004/37/EC		:	Europe. Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens or mutagens at work		
IE OEL		:	List of Chemical Agents and Carcinogens with Occupational		
2004/37/EC / TWA IE OEL / OELV - 8 hrs (TWA)		:	Exposure Limit Values - Code of Practice, Schedule 1 and 2 Long term exposure limit Occupational exposure limit value (8-hour reference period)		

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM -American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN -United Nations.

EC-Number - European Community number REACH - Regulation (EC) No 1907/2006 of the European Parliament and of Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

Further information

Classification of the mixtur	Classification procedure:	
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Based on product data or assessment

Product code: GF-1364

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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