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



PRAXYS™

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004509	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	:	PRAXYS™
Unique Formula Identifier (UFI)	:	WYS3-D04J-E008-J9X8

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

Use of the Sub-	: Plant Protection Pro	oduct
stance/Mixture	Herbicide	

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 1272/2008)

Acute toxicity, Category 4	H332: Harmful if inhaled.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
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according to Regulation (EC) No. 1907/2006, Annex II and its amendments.



PRAXYS™

CENTER/ doctor. P331 Do NOT induce vomiting. P391 Collect spillage. Disposal:	/ersion .1	Revision Date: 09.04.2024	SDS Numb 800080004	
Labelling (REGULATION (EC) No 1272/2008)Hazard pictogramsIImage:Image:Signal wordImage:Hazard statementsImage:Hazard statementsImage:Precautionary statementsImage:Precautionary statementsImage:Precautionary statementsImage:Page:	Short gory Long	-term (acute) aquatic 1 -term (chronic) aquati	hazard, Cate-	ways. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting
Hazard pictograms :	.2 Label	elements		
Hazard statements : H304 May be fatal if swallowed and enters airways. H315 H315 Causes skin irritation. H319 Causes serious eye irritation. H322 Harmful if inhaled. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements : Prevention: P261 P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling. P273 P273 Avoid release to the environment. Response: P301 + P310 IF SWALLOWED: Immediately call a POISOI CENTER/ doctor. P331 P391 Collect spillage. Disposal: P501 Dispose of contents/container to a licensed waste dis posal contractor or collection site except for empty clean triple rinsed containers which can be disposed of as non-hazardou waste. Hazardous components which must be listed on the label: Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene		• •	(EC) No 1272/2	
 H315 Causes skin irritation. H319 Causes serious eye irritation. H32 Harmful if inhaled. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements : Prevention: P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. Response: P301 + P310 IF SWALLOWED: Immediately call a POISOI CENTER/ doctor. P331 Do NOT induce vomiting. 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-hazardou waste. Hazardous components which must be listed on the label: Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene	Signa	al word	: Danger	• •
 P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. Response: P301 + P310 IF SWALLOWED: Immediately call a POISOI CENTER/ doctor. P331 Do NOT induce vomiting. 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-hazardou waste. Hazardous components which must be listed on the label: Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene 	Haza	rd statements	H315 (H319 (H332 F	Causes skin irritation. Causes serious eye irritation. Harmful if inhaled.
 P261 Avoid breathing mist or vapours. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. Response: P301 + P310 IF SWALLOWED: Immediately call a POISOI CENTER/ doctor. P331 Do NOT induce vomiting. P391 Collect spillage. Disposal: P501 Dispose of contents/container to a licensed waste dis posal contractor or collection site except for empty clean triple rinsed containers which can be disposed of as non-hazardou waste. Hazardous components which must be listed on the label: Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene 	Preca	autionary statements	: Preventi	on:
 P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. 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-hazardou waste. Hazardous components which must be listed on the label: Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene 		,	P264 V	Vash skin thoroughly after handling.
CENTER/ doctor. P331 Do NOT induce vomiting. P391 Collect spillage. Disposal: P501 Dispose of contents/container to a licensed waste dis posal contractor or collection site except for empty clean triple rinsed containers which can be disposed of as non-hazardou waste. Hazardous components which must be listed on the label: Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene			Respons	se:
 P501 Dispose of contents/container to a licensed waste disposal contractor or collection site except for empty clean triplerinsed containers which can be disposed of as non-hazardou waste. Hazardous components which must be listed on the label: Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene 			CENTER P331 [R/ doctor. Do NOT induce vomiting.
posal contractor or collection site except for empty clean triple rinsed containers which can be disposed of as non-hazardou waste. Hazardous components which must be listed on the label: Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene			Disposa	l:
Hydrocarbons, C10-C13, aromatics, <1% naphthalene Hydrocarbons, C10, aromatics, <1% naphthalene			posal co rinsed co	
Hydrocarbons, C10, aromatics, <1% naphthalene		•		
Additional Labelling	•			•
	Addi	tional Labelling		

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



PRAXYS™

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004509	Date of first issue: 05.04.2024

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. EC-No. Index-No. REACH Registration number	Classification	Concentration (% w/w)
fluroxypyr-meptyl (ISO)	81406-37-3 279-752-9 607-272-00-5	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	14.28
clopyralid (ISO)	1702-17-6 216-935-4 607-231-00-1	Eye Dam. 1; H318 Aquatic Chronic 1; H410 M-Factor (Chronic aquatic toxicity): 10	7.7
florasulam (ISO)	145701-23-1 613-230-00-7	Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100	0.24
Hydrocarbons, C10-C13, aromat- ics, <1% naphthalene	Not Assigned 922-153-0 01-2119451097-39, 01-2119451097-39- 0008, 01- 2119451097-39-0009, 01-2119451097-39- 0010	Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 40 - < 50
Reaction mass of N,N- dimethyldecan-1-amide and N,N- dimethyloctanamide	Not Assigned 909-125-3 01-2119974115-37	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	>= 10 - < 20

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



PRAXYS™

ersion .1	Revision Date: 09.04.2024			Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
	enesulfonic acid, mon anched alkyl derivs., (68953-96-8 273-234-6 01-2119964467-2	(Respiratory system) Acute Tox. 4; H312 >= 3 - < 10
hexar	n-1-ol		111-27-3 203-852-3 603-059-00-6 01-2119487967-1	Flam. Liq. 3; H226 >= 1 - < 3 Acute Tox. 4; H302 Eye Irrit. 2; H319
-	ocarbons, C10, aroma naphthalene	itics,	1189173-42-9 918-811-1 01-2119463583-3 0008, 01- 2119463583-34-0 01-2119463583-3 0010	STOT SE 3; H336 (Central nervous 34- system) Asp. Tox. 1; H304 0009, Aquatic Chronic 2;

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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. If breathing is difficult, oxygen should be administered by qual- ified personnel.
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.

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



PRAXYS™

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
If swallowed		induce vomiting or doctor. Do n	all a poison control center or doctor. Do not g unless told to do so by a poison control center ot give any liquid to the person. Do not give buth to an unconscious person.
4.2 Most important symptoms an None known.		nd effects, both ac	ute and delayed
4.3 Indicat	ion of any immediate	medical attention a	and special treatment needed
Treatment :		other respirato tive airways dy Maintain adequ May cause asti chodilators, ex may be of help Respiratory syn delayed. Perso observed 24-44 If burn is prese nation. If lavage is per geal control. D against toxicity The decision o made by a phy No specific ant Treatment of e symptoms and Have the Safet tainer or label	mptoms, including pulmonary edema, may be ons receiving significant exposure should be 8 hours for signs of respiratory distress. ant, treat as any thermal burn, after decontami- formed, suggest endotracheal and/or esopha- banger from lung aspiration must be weighed when considering emptying the stomach. f whether to induce vomiting or not should be sician.

SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media : Water spray

		Alcohol-resistant foam
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising from	the	e substance or mixture
Specific hazards during fire- fighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion prod- ucts	:	During a fire, smoke may contain the original material in addi- tion to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon oxides

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



PRAXYS™

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
		Nitrogen oxide	es (NOx)
5.3 Adv	ce for firefighters		
	ecial protective equipment firefighters		f fire, wear self-contained breathing apparatus. protective equipment.
Specific extinguishing meth- ods		so. Evacuate area Use extinguis cumstances a	maged containers from fire area if it is safe to do a. hing measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers.
Fur	ther information	: Collect contar must not be d Fire residues	ninated fire extinguishing water separately. This ischarged into drains. and contaminated fire extinguishing water must of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Ensure adequate ventilation. Use personal protective equipment. 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. Prevent spreading over a wide area (e.g. by containment or oil barriers). 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		Clean up remaining materials from spill with suitable absorb- ant.
	I	Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in.
	I	For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped,
		Recovered material should be stored in a vented container. The vent must prevent the ingress of water as further reaction

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



PRAXYS™

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004509	Date of first issue: 05.04.2024
		pressurization of Keep in suitable Wipe up with at Neutralize with Soak up with in acid binder, uni	erials can take place which could lead to over- of the container. e, closed containers for disposal. osorbent material (e.g. cloth, fleece). chalk, alkali solution or ammonia. ert absorbent material (e.g. sand, silica gel, versal binder, sawdust). , 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

Local/Total ventilation Advice on safe handling	:	Use with local exhaust ventilation. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Handle in accordance with good industrial hygiene and safety practice. Avoid exposure - obtain special instructions before use. Smoking, eating and drinking should be prohibited in the ap- plication area. Do not get on skin or clothing. Do not get on skin or clothing. Do not breathe vapours or spray mist. Do not swallow. Do not get in eyes. Avoid contact with skin and eyes. Keep container tightly closed. 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,	incl	uding any incompatibilities
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	:	Do not store near acids. 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.

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



PRAXYS™

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004509	Date of first issue: 05.04.2024

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Use engineering controls to maintain airborne level below exposure limit requirements or guide-lines.

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 equipment

Eye/face protection :	Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.
Hand protection	
Remarks :	Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro- organisms. Examples of preferred glove barrier materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Styrene/butadiene rubber. Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Ni- trile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes accord- ing to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 minutes according to EN 374) is recommended. Glove thickness alone is not a good indicator of the level of protection 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 other glove materials with a thickness of less than 0.35 mm other glove in a 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 materi- als, as well as the instructions/specifications provided by the

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



PRAXYS™

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
	and body protection	Selection of spe or full body suit	clothing chemically resistant to this material. ecific items such as face shield, boots, apron, will depend on the task.
Respi	ratory protection	tial to exceed the lf there are no a guidelines, use Selection of air- depend on the concentration of For emergency	tection should be worn when there is a poten- ne exposure limit requirements or guidelines. applicable exposure limit requirements or an approved respirator. -purifying or positive-pressure supplied-air will specific operation and the potential airborne f the material. conditions, use an approved positive-pressure preathing apparatus.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	liquid
Colour	:	Yellow to brown
Odour	:	Aromatic
Odour Threshold	:	No data available
Melting point/range	:	No data available
Freezing point		Test not performed, the product is a liquid.
Boiling point/boiling range	:	Test not performed, the product is a liquid.
Upper explosion limit / Upper flammability limit	:	Test not performed, the product is a liquid.
Lower explosion limit / Lower flammability limit	:	Test not performed, the product is a liquid.
Flash point	:	ca. 100 °C Method: Pensky-Martens Closed Cup ASTM D 93
Auto-ignition temperature	:	none below 400 degC
рН	:	2.49 (23.7 °C) Method: CIPAC MT 75 (1% aqueous suspension)
Viscosity Viscosity, kinematic	:	7.8 cSt (40 °C)
Solubility(ies)		

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



PRAXYS™

Versior 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024				
	Water solubility	: No data avail	able				
Vapour pressure		: Test not perfe	: Test not performed, the product is a liquid.				
Re	lative density	: No data avail	: No data available				
Density		: No data available					
Re	lative vapour density	: Test not perfe	ormed, the product is a liquid.				
9.2 Oth	er information						
Ex	plosives	: No					
Ox	idizing properties	: No					
Ev	aporation rate	: No data avail	able				
Su	rface tension	: 36.1 mN/m, 2	25 °C				

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

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

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon oxides Nitrogen oxides (NOx)



PRAXYS™

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004509	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: Information source: Internal study report
Acute inhalation toxicity	:	LC50 (Rat, female): 3.35 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Estimated. Remarks: Information source: Internal study report
		LC50 (Rat, male): 4.58 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Estimated. Remarks: Information source: Internal study report
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402 Remarks: Information source: Internal study report
Components:		
fluroxypyr-meptyl (ISO):		
Acute oral toxicity	:	LD50 (Rat): > 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): > 1.16 mg/l Exposure time: 4 h Test atmosphere: dust/mist Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: Maximum attainable concentration.
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg Symptoms: No deaths occurred at this concentration. Assessment: The substance or mixture has no acute dermal toxicity
clopyralid (ISO): Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg

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



rsion	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
Acute i	inhalation toxicity	Symptoms: N LC50 value i tration.	
Acute dermal toxicity		Symptoms: N	t): > 2,000 mg/kg No deaths occurred at this concentration. : The substance or mixture has no acute dermal
florası	ulam (ISO):		
Acute	oral toxicity	: LD50 (Rat): :	> 6,000 mg/kg
		LD50 (Mouse	e): > 5,000 mg/kg
Acute i	inhalation toxicity		
Acute	dermal toxicity	Symptoms: N	t): > 2,000 mg/kg No deaths occurred at this concentration. : The substance or mixture has no acute dermal
Hydro	carbons, C10-C13, a	aromatics, <1% na	ohthalene:
Acute	oral toxicity		> 5,000 mg/kg or similar material(s):
Acute i	inhalation toxicity	Assessment: tion toxicity	> 4.778 mg/l here: dust/mist : The substance or mixture has no acute inhala- or similar material(s):
Acute	dermal toxicity	Assessment: toxicity	t): > 2,000 mg/kg : The substance or mixture has no acute dermal or similar material(s):
		-	de and N,N-dimethyloctanamide:
Acute	oral toxicity	: LD50 (Rat): :	> 2,000 mg/kg
Acute i	inhalation toxicity	: LC50 (Rat): Exposure tim Test atmosp	

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



Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
		Assessment: tion toxicity	The substance or mixture has no acute inhala-
Acute	e dermal toxicity	: LD50 (Rat): :	> 2,000 mg/kg
Benz	enesulfonic acid, mo	ono-C11-13-branch	ed alkyl derivs., calcium salts:
Acute	e oral toxicity	Method: OEC Symptoms: N Assessment: icity	hale and female): > 2,000 mg/kg CD 401 or equivalent No deaths occurred at this concentration. The substance or mixture has no acute oral tox- or similar material(s):
Acute	e dermal toxicity	Method: OEC	nale and female): > 1,000 - < 1,600 mg/kg CD 402 or equivalent or similar material(s):
hexa	n-1-ol:		
Acute	e oral toxicity		3,210 mg/kg oservations in animals include: entral nervous system depression.
Acute	e inhalation toxicity	Exposure tim Test atmospl Symptoms: N	
Acute	e dermal toxicity	: LD50 (Rabbi	t): 2,530 mg/kg
Hydr	ocarbons, C10, arom	atics, <1% naphtha	alene:
-	e oral toxicity	: LD50 (Rat): :	
Acute	e inhalation toxicity	tion toxicity Remarks: Fo	ne: 4 h
Acute	e dermal toxicity	Assessment: toxicity	t): > 2,000 mg/kg The substance or mixture has no acute dermal or similar material(s):

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



orrosion/irritation		
<u>::</u>		
S	: Rabbit	
Ĩ	: OECD Test Gu	ideline 404
	: Skin irritation	
ks	: Information sou	Irce: Internal study report
onents:		
/pyr-meptyl (ISO):		
S	: Rabbit	
	: No skin irritation	n
on mass of N,N-dim	nethyldecan-1-amide	and N,N-dimethyloctanamide:
S	: Rabbit	
	: Skin irritation	
nesulfonic acid, mc	ono-C11-13-branched	alkyl derivs., calcium salts:
S	: Rabbit	-
	: Skin irritation	
1-ol:		
	: Mild skin irritation	on
s eye damage/eye i	rritation	
<u>::</u>		
S	: Rabbit	
l	: OECD Test Gu	ideline 405
	-	
<s< td=""><td>: Information sou</td><td>irce: Internal study report</td></s<>	: Information sou	irce: Internal study report
onents:		
3	: Rabbit	
	: Corrosive	
on mass of N,N-dim	nethyldecan-1-amide	and N,N-dimethyloctanamide:
S	: Rabbit	
	: Corrosive	
nesulfonic acid. mc	no-C11-13-branched	alkyl derivs., calcium salts:
· · · · · · · · · · · · · · · · · · ·	: Corrosive	
	onents: rpyr-meptyl (ISO): s on mass of N,N-dim s nesulfonic acid, mo s 1-ol: s eye damage/eye i ct: s t s onents: alid (ISO): s on mass of N,N-dim s	onents: rpyr-meptyl (ISO): s : Rabbit s : No skin irritatio on mass of N,N-dimethyldecan-1-amide s : s : Rabbit : s : Rabbit : s : Rabbit : nesulfonic acid, mono-C11-13-branched s : s : Rabbit : nesulfonic acid, mono-C11-13-branched s : s : Rabbit : t : Skin irritation nesulfonic acid, mono-C11-13-branched : Skin irritation s : Rabbit : s : Mild skin irritation total : Wild skin irritation s : Rabbit : s : Rabbit : s : Information sou onents: : : Corrosive alid (ISO): : : Rabbit : : <td< td=""></td<>

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



rsion	Revision Date: 09.04.2024	SDS Number:Date of last issue: 05.04.2024800080004509Date of first issue: 05.04.2024	
Resul	t	: Eye irritation	
Resp	iratory or skin sens	tisation	
Produ	uct:		
Speci	es	: Guinea pig	
	ssment	: Does not cause skin sensitisation.	
Metho		: OECD Test Guideline 406	
Rema	Irks	: Information source: Internal study report	
<u>Comp</u>	oonents:		
flurox	(ypyr-meptyl (ISO):		
Speci	es	: Guinea pig	
Asses	ssment	: Does not cause skin sensitisation.	
clopy	ralid (ISO):		
Speci	es	: Guinea pig	
Asses	ssment	: Does not cause skin sensitisation.	
floras	sulam (ISO):		
Rema	ırks	: Did not cause allergic skin reactions when tested in g pigs.	guine
Rema	ırks	: For respiratory sensitization: No relevant data found.	
Hydro	ocarbons, C10-C13,	aromatics, <1% naphthalene:	
Rema	ırks	: For similar material(s):	
		Did not cause allergic skin reactions when tested in g pigs.	guine
Rema	ırks	: For respiratory sensitization:	
		No relevant data found.	
React	tion mass of N,N-di	nethyldecan-1-amide and N,N-dimethyloctanamide:	
Speci		: Guinea pig	
	sment	: Does not cause skin sensitisation.	
Rema	Irks	: For similar material(s):	
Benzo	enesulfonic acid, m	ono-C11-13-branched alkyl derivs., calcium salts:	
Rema	ırks	: For skin sensitization:	
		For similar material(s):	ulin
		Did not cause allergic skin reactions when tested in g pigs.	juine
Rema	ırks	: For respiratory sensitization:	
		No relevant data found.	

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



rsion	Revision Date: 09.04.2024		8 Number: 080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
hexa	n-1-ol:			
	ssment	:	Did not cause al bigs.	skin sensitisation. lergic skin reactions when tested in guinea lergic skin reactions when tested in human
Rema	arks		For respiratory s No relevant data	
Hydro	ocarbons, C10, aroma	tics, <	:1% naphthaler	ne:
Rema	ırks	I	For similar mate Did not cause al pigs.	rial(s): lergic skin reactions when tested in guinea
Rema	ırks		For respiratory s No relevant data	
Germ	cell mutagenicity			
Com	oonents:			
fluro	(ypyr-meptyl (ISO):			
Germ sessr	cell mutagenicity- As- nent		n vitro genetic t oxicity studies v	oxicity studies were negative., Animal gene vere negative.
clopy	ralid (ISO):			
	Germ cell mutagenicity- As- sessment		n vitro genetic t oxicity studies v	oxicity studies were negative., Animal gene vere negative.
floras	sulam (ISO):			
	Germ cell mutagenicity- As- sessment		n vitro genetic t oxicity studies v	oxicity studies were negative., Animal gene vere negative.
Hydro	ocarbons, C10-C13, ai	omati	cs, <1% napht	halene:
Germ sessn	cell mutagenicity- As- nent			rial(s):, In vitro genetic toxicity studies were al genetic toxicity studies were negative.
Reac	tion mass of N,N-dime	ethyld	ecan-1-amide a	nd N,N-dimethyloctanamide:
Germ sessn	cell mutagenicity- As- nent	: 1	n vitro genetic t	oxicity studies were negative.
Benz	enesulfonic acid, mor	10-C1	-13-branched	alkyl derivs., calcium salts:
Germ sessn	cell mutagenicity- As- nent			rial(s):, In vitro genetic toxicity studies were al genetic toxicity studies were negative.
	n-1-ol:	-		· · · · ·
Germ	cell mutagenicity- As-	:	n vitro genetic t	oxicity studies were negative., Animal gene



Versio 1.1		Revision Date: 09.04.2024		S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
Se	sessment			toxicity studies we	ere negative.
G	-	arbons, C10, aromati Il mutagenicity- As- nt	ics, :	For similar materia	: al(s):, In vitro genetic toxicity studies were genetic toxicity studies were negative.
С	arcino	genicity			
<u>C</u>	ompo	nents:			
С		byr-meptyl (ISO): genicity - Assess-	:	For similar active cancer in laborato	ingredient(s)., Fluroxypyr., Did not cause ry animals.
С		lid (ISO): genicity - Assess-	:	Did not cause can	cer in laboratory animals.
С		am (ISO): genicity - Assess-	:	Did not cause can	cer in laboratory animals.
Н	lydroca	arbons, C10-C13, arc	oma	tics, <1% naphtha	alene:
	arcino nent	genicity - Assess-	:		lene which has caused cancer in some la- However, the relevance of this to humans is
С	exan-1 carcinog nent	-ol: genicity - Assess-	:	Did not cause can	cer in animal skin painting studies.
R	eprod	uctive toxicity			
<u>C</u>	ompo	nents:			
R		byr-meptyl (ISO): active toxicity - As- nt	:	Has been toxic to	did not interfere with reproduction. the fetus in laboratory animals at doses r., Did not cause birth defects in laboratory
R		lid (ISO): active toxicity - As- nt	:	Clopyralid caused greatly exaggerate mothers. No birth	did not interfere with reproduction. birth defects in test animals, but only at ed doses that were severely toxic to the defects were observed in animals given s several times greater than those expected hosure.
fle	orasul	am (ISO):			



sion	Revision Date: 09.04.2024		9S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024		
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.			
Hydro	ocarbons, C10-C13, a	roma	tics, <1% naph	halene:		
Repro sessr	oductive toxicity - As- nent	:		erial(s):, Did not cause birth defects or any ts in laboratory animals.		
Reac	tion mass of N,N-dim	ethyl	decan-1-amide	and N,N-dimethyloctanamide:		
Repro sessr	oductive toxicity - As- nent	:		erial(s):, Did not cause birth defects or any ts in laboratory animals.		
Benz	enesulfonic acid, moi	no-C1	11-13-branched	alkyl derivs., calcium salts:		
Repro sessr	oductive toxicity - As- nent	:	reproduction. For similar mate	erial(s):, In animal studies, did not interfere v erial(s):, Did not cause birth defects or any ts in laboratory animals.		
hexa	n-1-ol:					
Repro sessr	oductive toxicity - As- nent	:		es, did not interfere with reproduction. irth defects in laboratory animals.		
Hydro	ocarbons, C10, aroma	atics,	<1% naphthale	ne:		
Repro sessr	oductive toxicity - As- nent	:	For similar mate	es, did not interfere with reproduction. erial(s):, Did not cause birth defects or any ts in laboratory animals.		
STO	۲ - single exposure					
Prod	uct:					
Asses	ssment	:	Evaluation of av an STOT-SE to	vailable data suggests that this material is no xicant.		
<u>Com</u>	ponents:					
clopy	ralid (ISO):					
	ssment	:	Evaluation of av an STOT-SE to	vailable data suggests that this material is no xicant.		
Hydro	ocarbons, C10-C13, a	roma	tics, <1% naph	halene:		
-	ssment		· · · ·	ailable data suggests that this material is no		
Reac	tion mass of N,N-dim	ethyl	decan-1-amide	and N,N-dimethyloctanamide:		
	sure routes ssment	:	Inhalation May cause resp	piratory irritation		

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



sion	Revision Date: 09.04.2024	SDS Number:Date of last issue: 05.04.2024800080004509Date of first issue: 05.04.2024
Benze	enesulfonic acid, m	ono-C11-13-branched alkyl derivs., calcium salts:
Asses	sment	: Available data are inadequate to determine single exposure specific target organ toxicity.
hexar	n-1-ol:	
Expos	sure routes	: Oral
-	t Organs	: Central nervous system
Asses	sment	: May cause drowsiness or dizziness.
Hydro	ocarbons, C10, aror	natics, <1% naphthalene:
	sure routes	: Inhalation
Asses	sment	: May cause drowsiness or dizziness.
sтот	- repeated exposu	re
<u>Produ</u>		
Asses	sment	: Evaluation of available data suggests that this material is no an STOT-RE toxicant.
Repe	ated dose toxicity	
<u>Comp</u>	oonents:	
flurox	xypyr-meptyl (ISO):	
Rema	rks	: Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
clopy	ralid (ISO):	
Rema	rks	: Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.
floras	ulam (ISO):	
Rema	rks	: In animals, effects have been reported on the following or- gans: Kidney.
Hydro	ocarbons, C10-C13,	aromatics, <1% naphthalene:
Rema	rks	: Based on available data, repeated exposures are not anticipated to cause significant adverse effects.
React	ion mass of N,N-di	methyldecan-1-amide and N,N-dimethyloctanamide:
Rema	rks	 For similar material(s): Based on available data, repeated exposures are not antici- pated to cause significant adverse effects.
Benze	enesulfonic acid, m	ono-C11-13-branched alkyl derivs., calcium salts:
Rema	rks	: For similar material(s):

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



Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
		In animals, ei gans: Kidney.	fects have been reported on the following or-
heva	n-1-ol:		
Rem		: In animals, ef gans: Gastrointestir	fects have been reported on the following or- nal tract.
Hydr	ocarbons, C10, aroma	tice ~1% nanhtha	lene.
Rem		: Based on ava	ailable data, repeated exposures are not antici- ailable data, repeated exposures are not antici- ae additional significant adverse effects.
Aspi	ration toxicity		
Prod	uct:		
May	be fatal if swallowed and	d enters airways.	
<u>Com</u>	ponents:		
	xypyr-meptyl (ISO): d on physical properties	s, not likely to be an	aspiration hazard.
	yralid (ISO): d on physical properties	s, not likely to be an	aspiration hazard.
	sulam (ISO): d on physical properties	s, not likely to be an	aspiration hazard.
-	ocarbons, C10-C13, and be fatal if swallowed and	-	hthalene:
	tion mass of N,N-dime be harmful if swallowed	•	e and N,N-dimethyloctanamide:
	cenesulfonic acid, mor d on physical properties		ed alkyl derivs., calcium salts: aspiration hazard.
	n-1-ol: be harmful if swallowed	and enters airways	
-	ocarbons, C10, aroma be fatal if swallowed and	· · ·	lene:



PRAXYS™

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004509	Date of first issue: 05.04.2024

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: 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 12: Ecological information

12.1 Toxicity

Product:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 7.1 mg/l Exposure time: 96 h Test Type: flow-through test Method: OECD Test Guideline 203 or Equivalent
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 6.9 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 or Equivalent Remarks: Information source: Internal study report
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 3.1 mg/l End point: Biomass Exposure time: 72 h Method: OECD Test Guideline 201 or Equivalent
		ErC50 (diatom Navicula sp.): 1.7 mg/l End point: Biomass Exposure time: 72 h Method: OECD Test Guideline 201 or Equivalent
		ErC50 (Lemna gibba): 0.0424 mg/l End point: Growth rate inhibition Exposure time: 7 d Method: OECD Test Guideline 221
Toxicity to soil dwelling or- ganisms	:	LC50: 248.21 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms)
Toxicity to terrestrial organ- isms	:	oral LD50: > 2250 mg/kg bodyweight. Species: Colinus virginianus (Bobwhite quail)
		oral LD50: > 86.7 μg/bee Exposure time: 48 h

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



Versio 1.1		Revision Date: 09.04.2024		S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
				Species: Apis mel	lifera (bees)
				contact LD50: > 2 Exposure time: 48 Species: Apis mel	3 h
		cology Assessment juatic toxicity	:	Very toxic to aqua	tic life.
C	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
<u>c</u>	Compor	nents:			
	f luroxyp Γoxicity 1	yr-meptyl (ISO): to fish	:		I is very toxic to aquatic organisms below 1 mg/L in the most sensitive spe-
				Exposure time: 96 Test Type: semi-s	
		to daphnia and other nvertebrates	:	Exposure time: 48 Test Type: semi-s	
	Foxicity f plants	to algae/aquatic	:	Exposure time: 72 Test Type: static t	
				EbC50 (alga Scer Exposure time: 72	nedesmus sp.): > 0.47 mg/l 2 h
				ErC50 (Selenastru mg/l Exposure time: 96	um capricornutum (green algae)): > 1.410 Sh
				ErC50 (Myriophyll Exposure time: 14	lum spicatum): 0.075 mg/l l d
				NOEC (Myriophyll Exposure time: 14	lum spicatum): 0.031 mg/l l d
	Foxicity f city)	to fish (Chronic tox-	:	NOEC: 0.32 mg/l Species: Rainbow	v trout (Oncorhynchus mykiss)
	Foxicity f ganisms	to soil dwelling or-	:	LC50: > 1,000 mg Species: Eisenia f	/kg etida (earthworms)

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



Versio 1.1	n Revision Date: 09.04.2024		9S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
-	oxicity to terrestrial organ- ms	:	basis (LD50 > 200	ally non-toxic to birds on a dietary basis
			Exposure time: 5) mg/kg bodyweight. d virginianus (Bobwhite quail)
			dietary LC50: > 50 Species: Colinus	000 mg/kg diet. virginianus (Bobwhite quail)
			oral LD50: > 100 r Exposure time: 48 Species: Apis mel	3 h
			contact LD50: > 1 Exposure time: 48 Species: Apis mel	
с	lopyralid (ISO):			
	oxicity to fish	:	LC50 (Oncorhync Exposure time: 96 Test Type: static t	
			NOEC (Lepomis r Exposure time: 96	nacrochirus (Bluegill sunfish)): > 102 mg/l 3 h
	oxicity to daphnia and othe quatic invertebrates	er :	EC50 (Daphnia m Exposure time: 48 Test Type: static t	
	oxicity to algae/aquatic lants	:	ErC50 (Myriophyll Exposure time: 14	lum spicatum): > 3 mg/l l d
			NOEC (Myriophyl Exposure time: 14	lum spicatum): 0.0089 mg/l I d
			ErC50 (Selenastru End point: Growth Exposure time: 72	
Т	oxicity to microorganisms	:	(Bacteria): > 100	mg/l
	oxicity to fish (Chronic tox- ity)	· :	NOEC: 10.8 mg/l End point: Other Exposure time: 34 Species: Pimepha Method: OECD Te	ales promelas (fathead minnow)
	oxicity to daphnia and othe quatic invertebrates (Chror		NOEC: 17 mg/l Exposure time: 21	d

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



Versic 1.1		Revision Date: 09.04.2024		S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
ic	ic toxicity)			Test Type: static t	magna (Water flea) est est Guideline 211 or Equivalent
		r (Chronic aquatic	:	10	
Т	oxicity) oxicity f anisms	to soil dwelling or-	:	LC50: > 1,000 mg Exposure time: 14 End point: surviva Species: Eisenia f	l d
	oxicity t sms	to terrestrial organ-	:	oral LD50: 1465 n Species: Anas pla	ng/kg bodyweight. tyrhynchos (Mallard duck)
				dietary LC50: > 50 Exposure time: 8 Species: Colinus	
				oral LD50: > 100 r Exposure time: 48 End point: mortali Species: Apis mel	3 h ty
				contact LD50: > 9 Species: Apis mel	8.1 micrograms/bee lifera (bees)
E	cotoxi	cology Assessment			
A	cute ac	uatic toxicity	:	Toxic to aquatic lif	fe.
C	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
fl	lorasula	am (ISO):			
Т	oxicity 1	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	
		to daphnia and other nvertebrates	:	Exposure time: 48 Test Type: static t	
	oxicity f	to algae/aquatic	:	0.00894 mg/l End point: Growth Exposure time: 72 Test Type: static t	2 h

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



PRAXYS™

Vers 1.1	ion	Revision Date: 09.04.2024		9S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
				EC50 (Myriophyllu End point: Growth Exposure time: 14	
	M-Facto icity)	or (Acute aquatic tox-	:	100	
	Toxicity icity)	v to 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 Iles promelas (fathead minnow)
		invertebrates (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)
		or (Chronic aquatic	:	100	
	toxicity) Toxicity ganism	v to soil dwelling or-	:	LC50: > 1,320 mg Exposure time: 14 Species: Eisenia f	
	Toxicity isms	v to 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 r Exposure time: 48 Species: Apis mel	3 h

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



rsion	Revision Date: 09.04.2024		0S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
			contact LD50: > Exposure time: 4 Species: Apis m	
Hydro	ocarbons, C10-C13, arc	oma	tics, <1% naphtl	nalene:
Toxici	ty to fish	:		milar material(s): to aquatic organisms (LC50/EC50/IC50 be- mg/L in the most sensitive species).
			Exposure time: 9	nchus mykiss (rainbow trout)): 3.6 mg/l 96 h milar material(s):
	ity to daphnia and other ic invertebrates	:	Exposure time: 4	magna (Water flea)): 1.1 mg/l 48 h milar material(s):
Toxici plants	ty to algae/aquatic	:	mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 7.9 72 h milar material(s):
Ecoto	oxicology Assessment			
Chron	ic aquatic toxicity	:	Toxic to aquatic	life with long lasting effects.
React	tion mass of N,N-dime	thyl	decan-1-amide a	nd N,N-dimethyloctanamide:
Toxici	ty to fish	:	LC50 (Danio rer Exposure time: §	io (zebra fish)): 14.8 mg/l 96 h
	ty to daphnia and other ic invertebrates	:	LC50 (Daphnia i Exposure time: 4	magna (Water flea)): 7.7 mg/l 48 h
Toxici plants	ty to algae/aquatic	:	EC50 (Pseudoki mg/l Exposure time: 7	rchneriella subcapitata (green algae)): 16.0 72 h
Ecoto	oxicology Assessment			
Acute	aquatic toxicity	:	Toxic to aquatic	life.
Benzo	enesulfonic acid, mon	o-C [′]	11-13-branched a	alkyl derivs., calcium salts:
	ty to fish	:	Remarks: Mater	ial is harmful to aquatic organisms i0 between 10 and 100 mg/L in the most se
			LC50 (zebra fish Exposure time: 9	l (Brachydanio rerio)): 31.6 mg/l

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



Versior 1.1	Revision Date: 09.04.2024		9S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 62 mg/l } h
	xicity to algae/aquatic ints	:	ErC50 (Selenastru End point: Growth Exposure time: 96 Remarks: For sim	ን h
То	xicity to microorganisms	:	EC50 (activated s End point: Respira Exposure time: 3 Remarks: For sim	ation rates. h
To icit	xicity to fish (Chronic tox- y)	:	NOEC: 0.23 mg/l End point: surviva Exposure time: 72 Species: Rainbow Remarks: For sim	2 d / trout (Salmo gairdneri)
aq	xicity to daphnia and other uatic invertebrates (Chron- oxicity)	:	NOEC: 1.18 mg/l End point: numbe Exposure time: 21 Species: Daphnia Remarks: For sim	l d magna (Water flea)
he	xan-1-ol:			
То	xicity to fish	:	LC50 (Pimephales Exposure time: 96 Test Type: flow-th Method: Other gu	rough test
	xicity to daphnia and other uatic invertebrates	:	Exposure time: 24 Test Type: static t	
	xicity to algae/aquatic ints	:	mg/l End point: Growth Exposure time: 72 Test Type: static t	2 h
То	xicity to microorganisms	:	EC50 (Protozoa): Exposure time: 48	
Ну	drocarbons, C10, aromat	ics,	<1% naphthalene	::
-	xicity to fish	:	-	hus mykiss (rainbow trout)): 2 - 5 mg/l ን h
То	xicity to daphnia and other	:	EC50 (Daphnia m	agna): 3 - 10 mg/l

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



Versi 1.1	ion	Revision Date: 09.04.2024		0S Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
6	aquatic	invertebrates		Exposure time: 48 Remarks: For sim	
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Remarks: For sim	
		cology Assessment	:	Toxic to aquatic li	fe with long lasting effects.
12.2	Persist	tence and degradabil	ity		
<u>(</u>	Compo	onents:			
	-	r pyr-meptyl (ISO): radability	:	Result: Not biode Remarks: Materia OECD/EEC guide	I is not readily biodegradable according to
				Biodegradation: 3 Exposure time: 28 Method: OECD To Remarks: 10-day	3 d est Guideline 301D or Equivalent
7	ThOD		:	2.2 kg/kg	
S	Stability	/ in water	:	Test Type: Hydrol Degradation half I	
		alid (ISO): radability	:	Biodegradation: 4 Exposure time: 28 Method: OECD To Remarks: 10-day	3 d est Guideline 301B or Equivalent
٦	ThOD		:	0.71 kg/kg	
ç	Stability	/ in water	:	Test Type: Hydrol pH: 4 - 9 Method: Stable	lysis
F	Photod	egradation	:	Test Type: Half-lif	e (direct photolysis)
		l am (ISO): radability	:		I is expected to biodegrade very slowly (in Fails to pass OECD/EEC tests for ready

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



PRAXYS™

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
			e: 28 d D Test Guideline 301B or Equivalent day Window: Fail
	nemical Oxygen De- d (BOD)	: 0.012 kg/kg Incubation tim	ne: 5 d
ThO	D	: 0.85 kg/kg	
Stabi	ility in water	: Degradation h	nalf life: > 30 d
Photo	odegradation	: Rate constant Method: Estin	t: 7.04E-11 cm3/s nated.
Hydr	ocarbons, C10-C13, a	romatics, <1% nap	hthalene:
Biode	egradability	Biodegradatic presence of o Based on strin be considered sults do not n	similar material(s): on may occur under aerobic conditions (in the oxygen). Ingent OECD test guidelines, this material cannot d as readily biodegradable; however, these re- ecessarily mean that the material is not biode- er environmental conditions.
Read	tion mass of N,N-dim	ethyldecan-1-amid	e and N,N-dimethyloctanamide:
Biode	egradability		terial is readily biodegradable. Passes OECD dy biodegradability.
		Biodegradatic Exposure time Method: OEC	
Chen (COE	nical Oxygen Demand))	: 2.890 mg/g	
		o-C11-13-branche	d alkyl derivs., calcium salts:
Biode	egradability	Remarks: Ma	eadily biodegradable. terial is expected to biodegrade very slowly (in ent). Fails to pass OECD/EEC tests for ready ity.
hexa	n-1-ol:		
Biode	egradability	Remarks: Ma	ly biodegradable. terial is readily biodegradable. Passes OECD dy biodegradability.

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



Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
		Remarks: 10-c	n: 61 % : 30 d D Test Guideline 301D or Equivalent lay Window: Pass 5 mg/l
-	ocarbons, C10, aroma egradability	: Remarks: Mate	ene: erial is inherently biodegradable (reaches > dation in OECD test(s) for inherent biodegrada-
12.3 Bioa	ccumulative potential	l	
Com	ponents:		
	xypyr-meptyl (ISO): ccumulation		rhynchus mykiss (rainbow trout) on factor (BCF): 26 ured
	ion coefficient: n- ol/water	: log Pow: 5.04 Method: Meas Remarks: Bioc Pow < 3).	ured concentration potential is low (BCF < 100 or Log
	vralid (ISO): ccumulation	: Species: Fish Bioconcentration Method: Meas	on factor (BCF): < 1 ured
	ion coefficient: n- ol/water	: log Pow: -2.63 Remarks: Bioc Pow < 3).	concentration potential is low (BCF < 100 or Log
	sulam (ISO): ccumulation	: Species: Fish Exposure time Temperature: Bioconcentration	

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



Vers 1.1	sion	Revision Date: 09.04.2024	-	OS Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
				Method: Measure	d
		on coefficient: n- I/water	:	log Pow: -1.22 pH: 7.0 Remarks: Biocon Pow < 3).	centration potential is low (BCF < 100 or Log
	Hydro	carbons, C10-C13, ar	oma	itics, <1% naphtha	alene:
		on coefficient: n- I/water	:	For similar materi	potential is high (BCF > 3000 or Log Pow
			-		nd N,N-dimethyloctanamide:
		on coefficient: n- I/water	:	Remarks: Biocon	20 °C) centration potential is moderate (BCF be-)00 or Log Pow between 3 and 5).
	Benze	nesulfonic acid, mon	o-C'	11-13-branched a	kyl derivs., calcium salts:
		on coefficient: n- I/water	:	Remarks: Biocon	est Guideline 107 or Equivalent centration potential is moderate (BCF be- 000 or Log Pow between 3 and 5).
	hexan	-1-ol:			
		on coefficient: n- I/water	:	log Pow: 1.8 Method: Measure Remarks: Biocon Pow < 3).	d centration potential is low (BCF < 100 or Log
	Hydro	carbons, C10, aroma	tics,	<1% naphthalene):
		on coefficient: n- I/water	:	For similar materi	potential is high (BCF > 3000 or Log Pow
12.4	Mobili	ty in soil			
	<u>Comp</u>	onents:			
	Distrib	ypyr-meptyl (ISO): ution among environ- l compartments	:	Koc: 6200 - 4300 Remarks: Expect 5000).	0 ed to be relatively immobile in soil (Koc >
	clopyr	alid (ISO):			

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



Version 1.1	Revision Date: 09.04.2024		DS Number: 00080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024	
	tribution among environ- ntal compartments	:	Koc: 4.9 Remarks: Potenti tween 0 and 50).	al for mobility in soil is very high (Koc be-	
Sta	bility in soil	:	Test Type: aerob Dissipation time: Method: Estimate	71 d	
flo	rasulam (ISO):				
	tribution among environ- ntal compartments	:	Koc: 4 - 54 Remarks: Potenti tween 0 and 50).	al for mobility in soil is very high (Koc be-	
Sta	bility in soil	:	Dissipation time:	0.7 - 4.5 d	
Ну	drocarbons, C10-C13, ar	oma	atics, <1% naphth	alene:	
	tribution among environ- ntal compartments	:	Remarks: No rele	want data found.	
Re	action mass of N,N-dime	thy	Idecan-1-amide ar	nd N,N-dimethyloctanamide:	
	tribution among environ- ntal compartments	:		al for mobility in soil is low (Koc between 500	
Ве	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:				
Dis	tribution among environ- ntal compartments	:		-	
he	xan-1-ol:				
	tribution among environ- ntal compartments	:		al for mobility in soil is very high (Koc be-	
Hv	drocarbons, C10, aromat	tics	. <1% naphthalene		
Dis	tribution among environ- ntal compartments		-		
12.5 Re	sults of PBT and vPvB a	sse	ssment		
Pro	oduct:				
As	sessment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of	
<u>Co</u>	mponents:				
flu	roxypyr-meptyl (ISO):				
	sessment	:	lating and toxic (F	not considered to be persistent, bioaccumu- PBT) This substance is not considered to be ad very bioaccumulating (vPvB).	

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



Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
clopy	vralid (ISO):		
	ssment	lating and toxi	e is not considered to be persistent, bioaccumu- c (PBT) This substance is not considered to be t and very bioaccumulating (vPvB).
floras	sulam (ISO):		
	ssment	lating and toxi	e is not considered to be persistent, bioaccumu- c (PBT) This substance is not considered to be t and very bioaccumulating (vPvB).
Hydro	ocarbons, C10-C13,	aromatics, <1% napl	nthalene:
-	ssment	: This substance lating and toxi	e is not considered to be persistent, bioaccumu- c (PBT) This substance is not considered to be t and very bioaccumulating (vPvB).
Reac	tion mass of N,N-din	nethyldecan-1-amide	e and N,N-dimethyloctanamide:
Asses	ssment	lating and toxi	e is not considered to be persistent, bioaccumu- c (PBT) This substance is not considered to be t and very bioaccumulating (vPvB).
Benz	enesulfonic acid, mo	ono-C11-13-branche	d alkyl derivs., calcium salts:
Asses	ssment	lating and toxi	e is not considered to be persistent, bioaccumu- c (PBT) This substance is not considered to be t and very bioaccumulating (vPvB).
hexa	n-1-ol:		
Asses	ssment		e has not been assessed for persistence, bioac- d toxicity (PBT).
Hydro	ocarbons, C10, arom	atics, <1% naphthal	ene:
•	ssment	: This substance lating and toxi	e is not considered to be persistent, bioaccumu- c (PBT) This substance is not considered to be t and very bioaccumulating (vPvB).
12.6 Endo	ocrine disrupting pro	perties	
Prod	uct:		
Asses	ssment	ered to have e REACH Article	e/mixture does not contain components consid- endocrine disrupting properties according to a 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher.
12.7 Othe	r adverse effects		
Com	ponents:		
fluro	xypyr-meptyl (ISO):		

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



PRAXYS™

Version 1.1	Revision Date: 09.04.2024	-	DS Number: 00080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024	
Ozo	Ozone-Depletion Potential		Remarks: This substance is not on the Montreal Protocol lis of substances that deplete the ozone layer.		
	clopyralid (ISO): Ozone-Depletion Potential		Remarks: This substance is not on the Montreal Protocol lis of substances that deplete the ozone layer.		
	florasulam (ISO): Ozone-Depletion Potential		Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.		
Hyd	Irocarbons, C10-C13, ar	oma	atics, <1% naphth	alene:	
Ozo	Ozone-Depletion Potential		Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.		
Rea	ction mass of N,N-dime	thy	decan-1-amide ar	nd N,N-dimethyloctanamide:	
Ozo	ne-Depletion Potential	:		bstance is not on the Montreal Protocol list at deplete the ozone layer.	
Ber	zenesulfonic acid, mon	o-C	11-13-branched a	lkyl derivs., calcium salts:	
Ozo	ne-Depletion Potential	:		bstance is not on the Montreal Protocol list at deplete the ozone layer.	
hex	an-1-ol:				
Ozo	ne-Depletion Potential	:		bstance is not on the Montreal Protocol list at deplete the ozone layer.	
Hyd	Irocarbons, C10, aromat	tics	, <1% naphthalen	9:	
Ozc	ne-Depletion Potential	:		ibstance is not on the Montreal Protocol list at 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 be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

If the material as supplied becomes a waste, follow all appli-

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



Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024			
		cable regional,	national and local laws.			
SECTION 14: Transport information						
14.1 UN nu	umber or ID number					
ADR		: UN 3082				
RID		: UN 3082				
IMDG		: UN 3082				
ΙΑΤΑ		: UN 3082				
14.2 UN pr	oper shipping name					
ADR		N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr, Clopyralid)			
RID		N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,			
IMDG		N.O.S.	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Fluroxypyr, Clopyralid)			
IATA : Environmentally hazardous s (Fluroxypyr, Clopyralid)			/ hazardous substance, liquid, n.o.s. pyralid)			
14.3 Trans	port hazard class(es)					
		Class	Subsidiary risks			
ADR		: 9				
RID		: 9				
IMDG		: 9				
ΙΑΤΑ		: 9				
14.4 Packi	ng group					
ADR Packir Classi Hazar Labels	ng group fication Code d Identification Number	: III : M6 : 90 : 9 : (-)				
Classi Hazar Labels IMDG		: III : M6 : 90 : 9				

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



PRAXYS™

Versic 1.1	on	Revision Date: 09.04.2024		OS Number: 0080004509	Date of last issue: 05.04.2024 Date of first issue: 05.04.2024
E	abels EmS Co Remark		: :	9 F-A, S-F Stowage category	γ A
F a F F	Packing aircraft) Packing	Cargo) g instruction (cargo g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
F g F F	Packing ger airc Packing	Passenger) g instruction (passen- raft) g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
14.5 Environmental hazards					
E	ADR Environ RID	mentally hazardous	:	yes	
		mentally hazardous	:	yes	
	MDG	pollutant			lop/rolid)

Marine pollutant : yes(Fluroxypyr, Clopyralid)

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.

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	:	Not applicable
Concern for Authorisation (Article 59).		
Regulation (EC) No 1005/2009 on substances that de-	:	Not applicable
plete the ozone layer		
Regulation (EU) 2019/1021 on persistent organic pollu-	:	naphthalene
		-

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



PRAXYS™

Version 1.1	Revision Date: 09.04.2024	SDS Number: 800080004509		of last issue: 05.04.2024 of first issue: 05.04.2024
Regu ment of da	(recast) lation (EC) No 649/2012 and the Council concer ngerous chemicals	ning the export and imp	oort	
	CH - List of substances s ex XIV)	subject to authorisation	:	Not applicable
pean	so III: Directive 2012/18 Parliament and of the C ol of major-accident haz erous substances.	council on the	EN	IVIRONMENTAL 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

H226 :	Flammable liquid and vapour.
H302 :	Harmful if swallowed.
H304 :	May be fatal if swallowed and enters airways.
H312 :	Harmful in contact with skin.
H315 :	Causes skin irritation.
H318 :	Causes serious eye damage.
H319 :	Causes serious eye irritation.
H335 :	May cause respiratory irritation.
H336 :	May cause drowsiness or dizziness.
H400 :	Very toxic to aquatic life.
H410 :	Very toxic to aquatic life with long lasting effects.
H411 :	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox. :	Acute toxicity
Aquatic Acute :	Short-term (acute) aquatic hazard
Aquatic Chronic :	Long-term (chronic) aquatic hazard
Asp. Tox. :	Aspiration hazard
Eye Dam.	Serious eye damage
Eye Irrit. :	Eye irritation
Flam. Liq.	Flammable liquids
Skin Irrit.	Skin irritation
STOT SE :	Specific target organ toxicity - single exposure

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



PRAXYS™

Version	Revision Date:	SDS Number:	Date of last issue: 05.04.2024
1.1	09.04.2024	800080004509	Date of first issue: 05.04.2024

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

Other information :		The data given in this Safety Data Sheet are recognized as valid and approved by our company. The national Competent Authority has determined its classification based on other criteria. Our company abides by the applicable national deci- sion and has therefore implemented the mandated classifica- tions, however, the approved company data will still be pre- sented.		
Classification of the mixtu	re:		Classification procedure:	
Acute Tox. 4	H3	32	Based on product data or assessment	
Skin Irrit. 2	H3	515	Based on product data or assessment	
Eye Irrit. 2	H3	519	Based on product data or assessment	
Asp. Tox. 1	H3	804	Based on product data or assessment	
Aquatic Acute 1	H4	00	Based on product data or assessment	
Aquatic Chronic 1	H4	10	Based on product data or assessment	

Product code: GF-1374

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.

IE / 6N