

GRAZON™ PRO

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.11.2023	800080004766	Date of first issue: 14.11.2023

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 Great Britain 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	: GRAZON™ PRO
Unique Formula Identifier (UFI)	: DTJ4-F0X9-U00N-UHDY

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

Use of the Sub-	:	End use herbicide product
stance/Mixture		-

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION Manufacturer/importer Corteva Agriscience UK Ltd CPC2 CAPITAL PARK FULBOURN CAMBRIDGE - England - CB21 5XE UNITED KINGDOM

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

1.4 Emergency telephone number

SGS +32 3 575 55 55 OR

+44 161 88 41235

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3 H226: Flammable liquid and vapour. ™ ® Trademarks of Corteva Agriscience and its affiliated companies.

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Skin irritation, Category 2 Serious eye damage, Category 1 Skin sensitisation, Sub-category 1B Specific target organ toxicity - single ex- posure, Category 3, Central nervous		gory 1B / - single ex-	H315: Causes skin irritation. H318: Causes serious eye damage. H317: May cause an allergic skin reaction. H336: May cause drowsiness or dizziness.	
system Specific target organ toxicity - single ex- posure, Category 3, Respiratory system		•	H335: May cause respiratory irritation.	
Specific target organ toxicity - repeated exposure, Category 2 Aspiration hazard, Category 1			H373: May cause damage to organs through pro- longed or repeated exposure. H304: May be fatal if swallowed and enters air- ways.	
Sho gory	rt-term (acute) aquatic h ⁄ 1	azard, Cate-	H400: Very toxic to aquatic life.	
	g-term (chronic) aquatic	hazard, Cat-	H410: Very toxic to aquatic life with long lasting effects.	

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms :	
Signal word :	Danger
Hazard statements :	 H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements :	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P260 Do not breathe mist or vapours. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection. Response: P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre-

sent and easy to do. Continue rinsing. Immediately call a

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POISON CENTER/ doctor.

P331 Do NOT induce vomiting.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
P391 Collect spillage.

Disposal:

P501 Dispose of contents/container to a licensed hazardouswaste disposalcontractor or collection site except for empty clean containers whichcan be disposed of as non-hazardous waste.

Hazardous components which must be listed on the label:

Hydrocarbons, C9, aromatics Triclopyr-2-butoxyethyl ester Reaction mass of N,N-dimethyldecan-1-amide and N,N-dimethyloctanamide clopyralid (ISO)

Additional 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.

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)
	Index-No.		
	Registration number		
Triclopyr-2-butoxyethyl ester	64700-56-7	Acute Tox. 4; H302	32.41
	265-024-8	Skin Sens. 1B;	
		H317	
		STOT RE 2; H373	
		(Kidney)	
		Aquatic Acute 1;	
		H400	



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rsion)		SDS Number: 800080004766	Date of last issue: - Date of first issue: 14.11.2023	3
			Aquatic Chronic 1; H410 M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic aquatic toxicity): 10	
clopy	ralid (ISO)	1702-17-6 216-935-4 607-231-00-1	Eye Dam. 1; H318 Aquatic Chronic 1;	5.83
Hydro	ocarbons, C9, aromatics	128601-23-0 918-668-5 01-21194558	Flam. Liq. 3; H226 STOT SE 3; H336	>= 40 - < 50
dimet	tion mass of N,N- hyldecan-1-amide and N, hyloctanamide	Not Assigned 909-125-3 01-21199741	Eye Dam. 1; H318	>= 3 - < 10
	enesulfonic acid, mono-C hed alkyl derivs., calcium		Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	>= 2.5 - < 3
-	ocarbons, C10, aromatics, thalene	<1% 1189173-42- 918-811-1 01-21194635 0008, 01- 2119463583- 0009, 01- 2119463583- 0009, 01- 2119463583- 0010	(Central nervous system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411	>= 1 - < 2.5

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 resistant gloves, splash protection).

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			r exposure exists refer to Section 8 for specific ective equipment.		
If inhaled		emergency re ration; if by m mask etc). Ca advice. If breathing is	 Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; 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 qualified personnel. 		
In cas	se of skin contact	plenty of wate or doctor for Wash clothin which cannot properly.	aminated clothing. Wash skin with soap and er for 15-20 minutes. Call a poison control center treatment advice. g before reuse. Shoes and other leather items be decontaminated should be disposed of rgency safety shower facility should be available		
In cas	se of eye contact	20 minutes. F minutes, ther	en and rinse slowly and gently with water for 15- Remove contact lenses, if present, after the first 5 a continue rinsing eyes. Call a poison control tor for treatment advice.		
lf swa	llowed	induce vomiti or doctor. Do	call a poison control center or doctor. Do not ng unless told to do so by a poison control center not give any liquid to the person. Do not give nouth to an unconscious person.		
	mportant symptoms known.	and effects, both a	cute and delayed		

4.3 Indication of any immediate medical attention and special treatment needed

•	•
Treatment	 Maintain adequate ventilation and oxygenation of the patient. If burn is present, treat as any thermal burn, after decontamination. The decision of whether to induce vomiting or not should be made by a physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Sefett Data Sheet, and if available, the product control of the patient.
	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 doctor, or going for treatment. Skin contact may aggravate preexisting dermatitis.



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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 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
5.3	Advice for firefighters		
	Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary. Use personal protective equipment.
	Specific extinguishing meth- ods	:	Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
	Further information	:	Use water spray to cool unopened containers. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protect	ctive	e equipment and emergency procedures
Personal precautions	:	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.



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6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: Clean up remaining materials from spill with suitable absorb-
Methods for cleaning up	
	 ant. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in. For large spills, provide dyking or other appropriate containment 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 with spilled materials can take place which could lead to overpressurization of the container. Keep in suitable, closed containers for disposal.
	Wipe up with absorbent material (e.g. cloth, fleece).
	Neutralize with chalk, alkali solution or ammonia.
	See Section 13, Disposal Considerations, for additional infor- mation.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling	
Advice on safe handling :	Do not br

Do not breathe vapours/dust.
Handle in accordance with good industrial hygiene and safety
practice.
Smoking, eating and drinking should be prohibited in the ap-
plication 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

Requirements for storage areas and containers	:	Store in a closed container. 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.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Triclopyr-2-	64700-56-7	Time Weighted	2 mg/m3	Dow IHG
butoxyethyl ester		Average (TWA):	5	
clopyralid (ISO)	1702-17-6	Time weighted	10 mg/m3	Dow IHG
		average		

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 : Hand protection	Use chemical goggles.
Remarks :	Use gloves chemically resistant to this material. 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. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). 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.
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 :	



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contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	Liquid. Yellow Aromatic No data available	
рН	:	2.04 (20 °C) Method: pH Electrode (neat)	
Melting point/range	:	Not applicable	
Freezing point		No data available	
Boiling point/boiling range	:	No data available	
Flash point	:	55.1 °C Method: Pensky-Martens Closed Cup ASTM D 93, closed cup	
Evaporation rate	:	No data available	
Flammability (solid, gas)	:	Not applicable to liquids	
Upper explosion limit / Upper flammability limit	:	No data available	
Lower explosion limit / Lower flammability limit	:	No data available	
Vapour pressure	:	No data available	
Relative vapour density	:	No data available	
Relative density	:	No data available	
Density	:	1.03 g/mL	
Solubility(ies) Water solubility Auto-ignition temperature	:	emulsifiable No data available	
Viscosity Viscosity, dynamic	:	No data available	
Explosive properties	:	No	
Oxidizing properties	:	No data available	

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9.2 Other information

No data available

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	: S	table under recommended storage conditions.
	N	o hazards to be specially mentioned.
	Ν	ay form explosive dust-air mixture.

10.4 Conditions to avoid

Conditions to avoid	: None known.
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10.5 Incompatible materials

Materials to avoid : None.

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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Components:

Triclopyr-2-butoxyethyl ester:

Acute oral toxicity	:	LD50 (Rat, male and female): 803 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 4.8 mg/l Exposure time: 4 h Test atmosphere: dust/mist Symptoms: The LC50 value is greater than the Maximum Attainable Concentration. Assessment: The substance or mixture has no acute inhala- tion toxicity

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,	Acute dermal toxicity	:		2,000 mg/kg eaths occurred at this concentration. substance or mixture has no acute dermal
(clopyralid (ISO):			
1	Acute oral toxicity	:	LD50 (Rat): > 5,0	00 mg/kg
,	Acute inhalation toxicity	:	LC50 value is gre tration.	ĥ
,	Acute dermal toxicity	:		2,000 mg/kg eaths occurred at this concentration. substance or mixture has no acute dermal
I	Hydrocarbons, C9, aromatic	s:		
1	Acute oral toxicity	:	LD50 (Rat): 3,500) mg/kg
,	Acute inhalation toxicity	:	hazardous on sing May cause respira depression. Symptoms may in	concentrations are attainable which could be gle exposure. atory irritation and central nervous system include headache, dizziness and drowsiness, coordination and unconsciousness.
			LC50 (Rat): > 10. Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	h
,	Acute dermal toxicity	:	()	3,160 mg/kg substance or mixture has no acute dermal
I	Reaction mass of N,N-dime	thyl	decan-1-amide an	d N,N-dimethyloctanamide:
	Acute oral toxicity	:	LD50 (Rat): > 2,0	
,	Acute inhalation toxicity	:	LC50 (Rat): > 3.5 Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	h



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Acute	dermal toxicity	: L[D50 (Rat): > 2	,000 mg/kg				
Benze	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts:							
Acute	oral toxicity	M Sy As	ethod: OECD ymptoms: No ssessment: Tl ity	e and female): > 2,000 mg/kg 401 or equivalent deaths occurred at this concentration. he substance or mixture has no acute oral tox imilar material(s):				
Acute	dermal toxicity	Μ	ethod: OECD	e and female): > 1,000 - < 1,600 mg/kg 402 or equivalent imilar material(s):				
Hydro	ocarbons, C10, arom	atics, <1	% naphthale	ne:				
-	oral toxicity	: L[D50 (Rat): > 5					
Acute	inhalation toxicity	Ex Te A: tic R	on toxicity emarks: For s	4 h				
Acute	dermal toxicity	As to	ssessment: Tl xicity	> 2,000 mg/kg ne substance or mixture has no acute dermal imilar material(s):				
Skin	corrosion/irritation							
<u>Comp</u>	oonents:							
	<u>oonents:</u> ppyr-2-butoxyethyl e	ster:						
Triclo Speci	ppyr-2-butoxyethyl e es	: R	abbit					
Triclo	ppyr-2-butoxyethyl e es	: R	abbit o skin irritatioi	n				
Triclo Speci Resul	ppyr-2-butoxyethyl e es	: R; : N		n				
Triclo Speci Resul	opyr-2-butoxyethyl e es t ocarbons, C9, aroma	: R: : N						
Triclo Speci Resul Hydro Resul	opyr-2-butoxyethyl e es t bcarbons, C9, aroma t	: R; : N; tics: : N;	o skin irritation o skin irritation					
Triclo Speci Resul Hydro Resul	ppyr-2-butoxyethyl e es t ocarbons, C9, aroma t tion mass of N,N-din	: R; : No tics: : No nethyldeo	o skin irritation o skin irritation	n				
Triclo Specia Resul Hydro Resul	opyr-2-butoxyethyl e es t ocarbons, C9, aroma t tion mass of N,N-din es	: Ri : No tics: : No nethyldeo : Ri	o skin irritation o skin irritation can-1-amide	n				
Triclo Specia Resul Hydro Resul Resul	ppyr-2-butoxyethyl e es t ocarbons, C9, aroma t t ion mass of N,N-din es t	: R: : No : No : No : No : R: : Si	o skin irritation o skin irritation can-1-amide abbit kin irritation	n				
Triclo Specia Resul Hydro Resul Resul	opyr-2-butoxyethyl e es t ocarbons, C9, aroma t tion mass of N,N-din es t enesulfonic acid, mo	: R: : No : No : No : R: : Si ono-C11-	o skin irritation o skin irritation can-1-amide abbit kin irritation	n and N,N-dimethyloctanamide:				

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Serious eye damage/eye irritation

Components:						
Triclopyr-2-butoxyethyl ester:						
Species :	Rabbit					
Result :	No eye irritation					
clopyralid (ISO):						
Species :	Rabbit					
Result :	Corrosive					
Result .	Contraine					
Hydrocarbons, C9, aromatics:						
-						
Result :	No eye irritation					
	/Idecan-1-amide and N,N-dimethyloctanamide:					
Species :	Rabbit					
Result :	Corrosive					
Benzenesulfonic acid, mono-C	C11-13-branched alkyl derivs., calcium salts:					
Result :	Corrosive					
Respiratory or skin sensitisati	on					
Product:						
Test Type :	Local lymph node assay					
Species : Assessment :	Mouse The product is a skin sensitiser, sub-category 1B.					
Method :	OECD Test Guideline 429					
Method .	OECD Test Guideline 429					
Componentes						
Components:						
Triclopyr-2-butoxyethyl ester:						
Species :	Guinea pig					
Assessment :	The product is a skin sensitiser, sub-category 1B.					
clopyralid (ISO):						
Species :	Guinea pig					
Assessment :	Does not cause skin sensitisation.					
Hydrocarbons, C9, aromatics:						
Assessment :	Does not cause skin sensitisation.					
Remarks :	For similar material(s):					
itemarto .	Did not cause allergic skin reactions when tested in guinea					
	Did not cause allergic skill reactions when tested in guinea					

pigs.



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I	Remarks :		:	For respiratory se No relevant data f	
I	Reaction mass of N,N-dimeth			decan-1-amide an	d N,N-dimethyloctanamide:
	Specie		:	Guinea pig	
	Assess Remarl		:	Does not cause s For similar materia	
I	Benzei	nesulfonic acid, mon	o-C [,]	11-13-branched al	kyl derivs., calcium salts:
ļ	Remarl	ks	:	For skin sensitizat For similar materia Did not cause alle pigs.	
l	Remarl	ks	:	For respiratory se No relevant data f	
I	Hydrod	carbons, C10, aromat	ics,	<1% naphthalene	::
I	Remarl	KS	:	For similar materia Did not cause alle pigs.	al(s): ergic skin reactions when tested in guinea
l	Remarl	ks	:	For respiratory se No relevant data f	
	Germ o	cell mutagenicity			
	Compo	onents:			
-	Triclop	oyr-2-butoxyethyl este	er:		
	Germ c sessme		:	In vitro genetic to toxicity studies we	xicity studies were negative., Animal genetic ere negative.
(clopyra	alid (ISO):			
	Germ c sessme	ell mutagenicity- As- ent	:	In vitro genetic to toxicity studies we	xicity studies were negative., Animal genetic ere negative.
I	Hydrod	carbons, C9, aromatic	cs:		
	Germ c sessme	ell mutagenicity- As- ent	:	In vitro genetic to toxicity studies we	xicity studies were negative., Animal genetic ere negative.
l	Reaction	on mass of N,N-dime	thyl	decan-1-amide an	d N,N-dimethyloctanamide:
	Germ c sessme	ell mutagenicity- As- ent	:	In vitro genetic to	xicity studies were negative.
I	Benzei	nesulfonic acid, mon	o-C'	11-13-branched al	kyl derivs., calcium salts:
	Germ o sessme	ell mutagenicity- As- ent	:		al(s):, In vitro genetic toxicity studies were genetic toxicity studies were negative.



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Hydrocarbons, C10, aromatics, <1% naphthalene: Germ cell mutagenicity- As-: For similar material(s):, In vitro genetic toxicity studies were sessment negative., Animal genetic toxicity studies were negative. Carcinogenicity **Components:** Triclopyr-2-butoxyethyl ester: Carcinogenicity - Assess-For similar active ingredient(s)., Triclopyr., Did not cause canment cer in laboratory animals. clopyralid (ISO): Carcinogenicity - Assess-Did not cause cancer in laboratory animals. ment Hydrocarbons, C9, aromatics: Carcinogenicity - Assess-÷ Xylene was not found to be carcinogenic in a National Toximent cology Program bioassay in rats and mice. Hydrocarbons, C10, aromatics, <1% naphthalene: Carcinogenicity - Assess-Contains naphthalene which has caused cancer in some laboratory animals., However, the relevance of this to humans is ment unknown. **Reproductive toxicity** Components: Triclopyr-2-butoxyethyl ester: Reproductive toxicity - As-For similar active ingredient(s)., Triclopyr., In laboratory animal studies, effects on reproduction have been seen only at sessment doses that produced significant toxicity to the parent animals. Has been toxic to the fetus in laboratory animals at doses toxic to the mother., Did not cause birth defects in laboratory animals. clopyralid (ISO): Reproductive toxicity - As-In animal studies, did not interfere with reproduction. Clopyralid caused birth defects in test animals, but only at sessment greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected during normal exposure. Hydrocarbons, C9, aromatics: Reproductive toxicity - As-In laboratory animal studies, effects on reproduction have 5 sessment been seen only at doses that produced significant toxicity to

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		producing so of xylene giv in cleft palat In animal inl	nimals. birth defects in laboratory animals only at doses evere toxicity in the mother., Exaggerated doses ven orally to pregnant mice resulted in an increase e, a common developmental abnormality in mice. nalation studies, xylene caused toxicity to the fetus cause birth defects.
React	tion mass of N,N-dim	ethyldecan-1-ami	de and N,N-dimethyloctanamide:
	oductive toxicity - As-	: For similar r	naterial(s):, Did not cause birth defects or any ffects in laboratory animals.
Benzo	enesulfonic acid. moi	no-C11-13-branch	ed alkyl derivs., calcium salts:
	oductive toxicity - As-	: For similar r reproductior For similar r	naterial(s):, In animal studies, did not interfere with
Hydro	ocarbons, C10, aroma	tics, <1% naphth	alene:
Repro sessm	oductive toxicity - As- nent	For similar r	udies, did not interfere with reproduction. naterial(s):, Did not cause birth defects or any ffects in laboratory animals.
ѕтот	- single exposure		
<u>Produ</u>	uct:		
Targe	sure routes et Organs ssment	: Inhalation : Respiratory : May cause i	Tract respiratory irritation.
•	sure routes ssment	: Inhalation : May cause of	drowsiness or dizziness.
Comp	oonents:		
Triclo	pyr-2-butoxyethyl es	ter:	
	ssment		f available data suggests that this material is not E toxicant.
clopy	ralid (ISO):		
	ssment	: Evaluation c an STOT-SI	f available data suggests that this material is not E toxicant.
Hvdra	ocarbons, C9, aromat	ics:	
•	ssment		respiratory irritation., May cause drowsiness or



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React	ion mass of N,N-dir	nethyldecan-1-amide	and N,N-dimethyloctanamide:
	sure routes	: Inhalation	
Asses	sment	: May cause resp	biratory irritation.
Benze	enesulfonic acid, m	ono-C11-13-branched	alkyl derivs., calcium salts:
Asses	sment	: Available data a specific target o	are inadequate to determine single exposur organ toxicity.
Hydro	ocarbons, C10, aron	natics, <1% naphthale	ne:
Expos	sure routes	: Inhalation	
Asses	sment	: May cause drov	vsiness or dizziness.
sтот	- repeated exposur	e	
<u>Comp</u>	oonents:		
	pyr-2-butoxyethyl e		
-	t Organs	: Kidney	
Asses	sment	: May cause dan exposure.	hage to organs through prolonged or repeat
Repea	ated dose toxicity		
<u>Comp</u>	oonents:		
clopy	ralid (ISO):		
Rema	rks		able data, repeated exposures are not antic additional significant adverse effects.
Hydro	ocarbons, C9, aroma	atics:	
Rema	rks		cts have been reported on the following or-
		gans: Blood.	
		Kidney.	
		Liver.	
			ted to have caused hearing loss in laborato
		•	xposure to high concentrations; such effect eported in humans.
		For the minor c	•
		Cumene.	
		Eye.	
React	ion mass of N,N-dir	•	and N,N-dimethyloctanamide:
Rema	rks	: For similar mat	
			able data, repeated exposures are not antic significant adverse effects.
		paica io cause	organitourit uuvorbe ericets.

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Re	emarks		material(s): effects have been reported on the following or-
Hy	ydrocarbons, C10, aroma	tics, <1% naph	halene:
Re	emarks		available data, repeated exposures are not antici- use additional significant adverse effects.
As	spiration toxicity		
	r oduct: ay be fatal if swallowed and	d enters airways	
<u>Co</u>	omponents:		
	riclopyr-2-butoxyethyl est ased on physical properties		an aspiration hazard.
cl	opyralid (ISO):		
Ba	ased on physical properties	, not likely to be	an aspiration hazard.
-	ydrocarbons, C9, aromati ay be fatal if swallowed and		
	eaction mass of N,N-dime ay be harmful if swallowed	-	nide and N,N-dimethyloctanamide:
IVI	ay be naminu ii Swalloweu		iys.
	enzenesulfonic acid, mon ased on physical properties		hed alkyl derivs., calcium salts: an aspiration hazard.
Hy	ydrocarbons, C10, aroma	tics, <1% naph	halene:
M	ay be fatal if swallowed and	d enters airways	
SECT	ION 12: Ecological info	rmation	
10 1 T	ovicity		
12.1 To Pr	roduct:		
	oxicity to fish	acute basi	Material is highly toxic to aquatic organisms on an s (LC50/EC50 between 0.1 and 1 mg/L in the most pecies tested).
		Exposure	orhynchus mykiss (rainbow trout)): 1.47 mg/l ime: 96 h flow-through test

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			Method: OECD Te	est Guideline 203
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: static t Method: OECD Te	est
Toxic plants	rity to algae/aquatic s	:	ErC50 (Pseudokir mg/l End point: Growth Exposure time: 72 Test Type: static t Method: OECD Te	2 h rest
			ErC50 (Myriophyll Exposure time: 14	lum spicatum): 0.190 mg/l ł d
			NOEC (Myriophyl Exposure time: 14	lum spicatum): 0.0305 mg/l ł d
Toxic ganis	tity to soil dwelling or- sms	:	LC50: 224 mg/kg Exposure time: 14 Species: Eisenia f	t d fetida (earthworms)
Toxic isms	ity to terrestrial organ-	:		l is slightly toxic to birds on an acute basis 01 and 2000 mg/kg).
			Exposure time: 14	ng/kg bodyweight. ł d virginianus (Bobwhite quail)
			oral LD50: > 370 Exposure time: 48 Species: Apis mel	3 ĥ
			contact LD50: > 4 Exposure time: 48 Species: Apis mel	3 h
	oxicology Assessment		Vorutovio to oguo	tia lifa
	e aquatic toxicity nic aquatic toxicity	•	Very toxic to aqua	atic life with long lasting effects.
		•	tory toxic to aque	
	ponents:			
	opyr-2-butoxyethyl este	er: :	LC50 (Lepomis m Exposure time: 96 Test Type: flow-th	



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		r to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokir mg/l End point: Growth Exposure time: 96 Method: OECD Te	5 h
				ErC50 (Myriophyll Exposure time: 14	um spicatum): 0.0473 mg/l · d
				NOEC (Myriophyll Exposure time: 14	um spicatum): 0.00722 mg/l d
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.0263 mg Species: Rainbow	g/l trout (Oncorhynchus mykiss)
		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 1.6 mg/l End point: numbe Exposure time: 21 Species: Daphnia	
				LOEC: 5.1 mg/l End point: numbe Exposure time: 21 Species: Daphnia	
				End point: numbe Exposure time: 21	
		or (Chronic aquatic	:	10	
	toxicity) Toxicity ganism	to soil dwelling or-	:	LC50: > 1,042 mg Exposure time: 14 Species: Eisenia f	
	Toxicity isms	to terrestrial organ-	:	oral LD50: 735 mg Exposure time: 21 Species: Colinus v	
				dietary LC50: 189 Exposure time: 8 Species: Colinus v	
				oral LD50: > 110 Exposure time: 48	

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				End point: mortalit Species: Apis mel	
				contact LD50: > 1 Exposure time: 48 End point: mortalit Species: Apis mel	sh Sy
	clopyra	lid (ISO):			
	Toxicity		:	LC50 (Oncorhync Exposure time: 96 Test Type: static t	
				NOEC (Lepomis r Exposure time: 96	nacrochirus (Bluegill sunfish)): > 102 mg/l i h
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Test Type: static t	
	Toxicity plants	to algae/aquatic	:	ErC50 (Pseudokir mg/l End point: Growth Exposure time: 96	
				ErC50 (Myriophyll Exposure time: 14	um spicatum): > 3 mg/l · d
				NOEC (Myriophyll Exposure time: 14	um spicatum): 0.0089 mg/l · d
	Toxicity	to microorganisms	:	(Bacteria): > 100	mg/l
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 10.8 mg/l End point: Other Exposure time: 34 Species: Pimepha Method: OECD Te	les promelas (fathead minnow)
		to daphnia and other invertebrates (Chron- y)	:	Test Type: static t	magna (Water flea)
		or (Chronic aquatic	:	10	
	toxicity) Toxicity ganisms	to soil dwelling or- S	:	LC50: > 1,000 mg Exposure time: 14 End point: surviva Species: Eisenia f	d

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Toxici isms	ty to terrestrial organ-	:		ng/kg bodyweight. atyrhynchos (Mallard duck)
			dietary LC50: > 5 Species: Anas pla	000 mg/kg diet. atyrhynchos (Mallard duck)
			oral LD50: > 100 Exposure time: 48 End point: mortali Species: Apis me	3 h ty
			contact LD50: > 9 Species: Apis me	18.1 micrograms/bee Ilifera (bees)
Ecoto	oxicology Assessment			
	aquatic toxicity	:	Toxic to aquatic li	fe.
Chron	ic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
Hydro	ocarbons, C9, aromatic	s:		
-	ty to fish	:		I is moderately toxic to aquatic organisms on C50/EC50 between 1 and 10 mg/L in the ecies tested).
			Exposure time: 90 Test Type: static	
	ty to daphnia and other ic invertebrates	:	LC50 (saltwater n Exposure time: 96	nysid Mysidopsis bahia): 2.0 mg/l 5 h
Toxici plants	ty to algae/aquatic	:	ErC50 (Pseudokin mg/l Exposure time: 72 Remarks: For sim	
Toxici isms	ty to terrestrial organ-	:	basis (LD50 > 20	ally non-toxic to birds on a dietary basis
			dietary LC50: > 6 Exposure time: 8 Species: Colinus	
			Exposure time: 2) mg/kg bodyweight. 1 d virginianus (Bobwhite quail)

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	Ecotox	cicology Assessment			
	Chronic	c aquatic toxicity	:	Toxic to aquatic lif	e with long lasting effects.
	Reaction	on mass of N,N-dimet	hyl	decan-1-amide an	d N,N-dimethyloctanamide:
	Toxicity	/ to fish	:	LC50 (Danio rerio Exposure time: 96	(zebra fish)): 14.8 mg/l 5 h
		/ to daphnia and other invertebrates	:	LC50 (Daphnia m Exposure time: 48	agna (Water flea)): 7.7 mg/l 3 h
	Toxicity plants	/ to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): 16.06 ? h
	Ecotox	cicology Assessment			
	Acute a	aquatic toxicity	:	Toxic to aquatic lif	e.
	Benzei	nesulfonic acid, mono	o-C′	11-13-branched al	kyl derivs., calcium salts:
	Toxicity	<i>i</i> to fish	:		I is slightly toxic to aquatic organisms on an /EC50 between 10 and 100 mg/L in the ecies tested).
				LC50 (zebra fish (Exposure time: 96 Remarks: For sim	
		v to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 62 mg/l 3 h
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Selenastru End point: Growth Exposure time: 96 Remarks: For sim	3 h
	Toxicity	/ to microorganisms	:	EC50 (activated s End point: Respira Exposure time: 3 Remarks: For sim	ation rates.
	Toxicity icity)	/ to fish (Chronic tox-	:	NOEC: 0.23 mg/l End point: surviva Exposure time: 72 Species: Rainbow Remarks: For sim	2 d v trout (Salmo gairdneri)
		/ to daphnia and other invertebrates (Chron- ity)	:	NOEC: 1.18 mg/l End point: numbe Exposure time: 21 Species: Daphnia Remarks: For sim	d magna (Water flea)



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н	lydroc	arbons, C10, aromat	ics,	<1% naphthalene	::
T	oxicity	to fish	:	LC50 (Oncorhync Exposure time: 96 Remarks: For sim	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48 Remarks: For sim	
	oxicity lants	to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Remarks: For sim	
E	cotox	icology Assessment			
		aquatic toxicity	:	Toxic to aquatic li	fe with long lasting effects.
12.2 P	Persist	ence and degradabil	ity		
<u>c</u>	ompo	nents:			
Т	riclop	yr-2-butoxyethyl este	er:		
		adability	:	Result: Not readily Biodegradation: Exposure time: 28 Method: OECD To Remarks: 10-day	18 % 3 d est Guideline 301B or Equivalent
		nical Oxygen De-	:	0.004 kg/kg	
	hand (E ThOD	30D)	:	1.39 kg/kg	
S	itability	in water	:	Test Type: Hydrol Degradation half I pH: 7	lysis ife (half-life): 8.7 d (25 °C)
Ρ	hotode	egradation	:	Rate constant: 2.3 Method: Estimate	
c	lopyra	llid (ISO):			
		adability	:	Biodegradation: 5 Exposure time: 28 Method: OECD To Remarks: 10-day	3 d est Guideline 301B or Equivalent
	iochen nand (E	nical Oxygen De- 3OD)	:	0 mg/g 0 % Incubation time: 2	20 d
		al Oxygen Demand	:	0.73 kg/kg	
	COD) hOD		:	0.71 kg/kg	

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Stabi	lity in water	: Test Type: Hydrolysis pH: 4 - 9 Method: Stable	
Photo	odegradation	: Test Type: Half-life (direct photolysis)	
Hydr	ocarbons, C9, aromati	3:	
Biode	egradability	 Remarks: For the major component(s Biodegradation under aerobic static la high (BOD20 or BOD28/ThOD > 40% For some component(s): Biodegradation under aerobic static la low (BOD20 or BOD28/ThOD betwee Result: Not biodegradable 	aboratory conditions is). aboratory conditions is
Read	tion mass of N ₋ N-dime	yldecan-1-amide and N,N-dimethyloct	anamide:
	gradability	: Remarks: Material is readily biodegra test(s) for ready biodegradability.	
		Result: Readily biodegradable. Biodegradation: > 80 % Exposure time: 28 d Method: OECD Test Guideline 301F o Remarks: 10-day Window: Pass	or Equivalent
Chen (COE	nical Oxygen Demand))	: 2.890 mg/g	
Benz	enesulfonic acid, mon	C11-13-branched alkyl derivs., calcium	n salts:
Biode	egradability	: Biodegradation: 2.9 % Exposure time: 28 d Method: OECD Test Guideline 301E Remarks: 10-day Window: Fail	or Equivalent
Hydr	ocarbons, C10, aroma	s, <1% naphthalene:	
Biode	egradability	: Remarks: Material is inherently biode 20% biodegradation in OECD test(s) bility).	
12.3 Bioa	ccumulative potential		
Com	ponents:		
Tricle	opyr-2-butoxyethyl est	:	
Bioac	cumulation	: Species: Fish Bioconcentration factor (BCF): 110	
	ion coefficient: n- ol/water	: log Pow: 4.62 pH: 7 Remarks: Bioconcentration potential i	s moderate (BCF be-

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				tween 100 and 30	000 or Log Pow between 3 and 5).
	clopyra	alid (ISO):			
		umulation	:	Species: Fish Bioconcentration Method: Measure	
		n coefficient: n-	:		
	octanol	/water		log Pow: -2.63 Remarks: Biocon Pow < 3).	centration potential is low (BCF < 100 or Log
	Hydrod	carbons, C9, aromati	cs:		
	Partitio octanol	n coefficient: n- /water	:	Bioconcentration 3000 or Log Pow For the minor cor	e major component(s): potential is moderate (BCF between 100 and between 3 and 5). nponent(s): potential is low (BCF < 100 or Log Pow < 3).
		on mass of N,N-dime n coefficient: n-	thy		nd N,N-dimethyloctanamide:
	octanol		•		centration potential is moderate (BCF be- 000 or Log Pow between 3 and 5).
	Benzei	nesulfonic acid, mon	o-C	11-13-branched a	lkyl derivs., calcium salts:
	Partitio octanol	n coefficient: n- /water	:	Remarks: Biocon	est Guideline 107 or Equivalent centration potential is moderate (BCF be- 000 or Log Pow between 3 and 5).
	Hvdroo	carbons, C10, aroma	tics.	<1% naphthalen	2:
	•	n coefficient: n-	:	Remarks: No dat For similar mater	a available for this product. ial(s): potential is high (BCF > 3000 or Log Pow
12.4	Mobilit	y in soil			
	Compo	onents:			
	Triclop	oyr-2-butoxyethyl est	er:		
		ition among environ- compartments	:	possible due to v For the degradati Triclopyr.	ation of meaningful sorption data was not ery rapid degradation in the soil. on product: ility in soil is very high (Koc between 0 and

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Stabi	lity in soil	:	Test Type: aerobi	
clopy	/ralid (ISO):			
	bution among environ- al compartments	:		al for mobility in soil is very high (Koc be-
Stabi	lity in soil	:	Test Type: aerobi Dissipation time: 7 Method: Estimate	71 d
Hydr	ocarbons, C9, aromatio	cs:		
	bution among environ- al compartments	:	Remarks: No rele	vant data found.
Reac	tion mass of N,N-dime	thyl	decan-1-amide an	d N,N-dimethyloctanamide:
	bution among environ- al compartments	:		al for mobility in soil is low (Koc between 500
Benz	enesulfonic acid, mon	o-C [,]	11-13-branched al	kyl derivs., calcium salts:
	bution among environ- al compartments	:	Remarks: No rele	vant data found.
Hydr	ocarbons, C10, aromat	ics,	<1% naphthalene	:
	bution among environ- al compartments	:	Remarks: No rele	vant data found.
12.5 Resu	llts of PBT and vPvB a	sse	ssment	
Prod	uct:			
	ssment	:	to be either persis	ixture contains no components considered stent, bioaccumulative and toxic (PBT), or ad very bioaccumulative (vPvB) at levels of
Com	ponents:			
Tricle	opyr-2-butoxyethyl est	er:		
Asse	ssment	:	lating and toxic (P	not considered to be persistent, bioaccumu- PBT) This substance is not considered to be d very bioaccumulating (vPvB).
clopy	/ralid (ISO):			
	ssment	:	lating and toxic (P	not considered to be persistent, bioaccumu- PBT) This substance is not considered to be d very bioaccumulating (vPvB).
Hvdr	ocarbons, C9, aromatio	cs:		
-	ssment	:	This substance ha	as not been assessed for persistence, bioac- ixicity (PBT).



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Rea	ction mass of N,N-dim	thyldecan-1-amide and N,N-dimethyloctanamide:
Asse	essment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Ben	zenesulfonic acid, mo	o-C11-13-branched alkyl derivs., calcium salts:
Asse	essment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Hyd	rocarbons, C10, aroma	ics, <1% naphthalene:
Asse	essment	: This substance is not considered to be persistent, bioaccumu- lating and toxic (PBT) This substance is not considered to be very persistent and very bioaccumulating (vPvB).
12.6 Oth	er adverse effects	
Proc	duct:	
Endo tial	ocrine disrupting poten-	: The substance/mixture does not contain components consid- ered 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.
<u>Com</u>	ponents:	
Tric	lopyr-2-butoxyethyl es	er:
Ozo	ne-Depletion Potential	: Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.
clop	yralid (ISO):	
Ozoi	ne-Depletion Potential	: Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.
Hyd	rocarbons, C9, aromat	cs:
Ozoi	ne-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-dim	thyldecan-1-amide and N,N-dimethyloctanamide:
Ozoi	ne-Depletion Potential	: Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.
Ben	zenesulfonic acid, mo	o-C11-13-branched alkyl derivs., calcium salts:
Ozoi	ne-Depletion Potential	: Remarks: This substance is not on the Montreal Protocol list of substances that deplete the ozone layer.



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Hydrocarbons, C10, aromatics, <1% naphthalene:

Ozone-Depletion Potential : Remarks: This substance is not on the Montreal Protocol list of substances 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 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 applicable regional, national and local laws.

SECTION 14: Transport information

14.1 UN number			
ADR	: UN 1993		
RID	: UN 1993		
IMDG	: UN 1993	UN 1993	
ΙΑΤΑ	: UN 1993	UN 1993	
14.2 UN proper shipping name			
ADR	: FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9, aromatics)		
RID	FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9, aromatics)		
IMDG	 FLAMMABLE LIQUID, N.O.S. (Hydrocarbons, C9, aromatics, Triclopyr-2-butoxyethyl E Clopyralid) 	(Hydrocarbons, C9, aromatics, Triclopyr-2-butoxyethyl Ester,	
ΙΑΤΑ	Flammable liquid, n.o.s. (Hydrocarbons, C9, aromatics)		
14.3 Transport hazard class()		
	Class Subsidiary risks		
ADR	: 3		



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RI	П	: 3	
	IDG	: 3	
	TA	: 3	
		. 3	
	acking group		
Pa Cl Ha La	DR acking group assification Code azard Identification Number abels annel restriction code	: III : F1 : 30 : 3 : (D/E)	
CI Ha	D acking group assification Code azard Identification Number abels	: III : F1 : 30 : 3	
Pa La Er	IDG acking group abels nS Code emarks	: III : 3 : F-E, <u>S-E</u> : Stowage category A	
Pa air Pa Pa	TA (Cargo) acking instruction (cargo craft) acking instruction (LQ) acking group abels	: 366 : Y344 : III : Flammable Liquids	
IA Pa Pa Pa	TA (Passenger) acking instruction (passen- er aircraft) acking instruction (LQ) acking group ubels	 : 355 : Y344 : III : Flammable Liquids 	
14.5 Eı	nvironmental hazards		
	DR nvironmentally hazardous	: yes	
RI Er	D hvironmentally hazardous	: yes	
	I DG arine pollutant	: yes(Triclopyr-2-butoxyethyl Ester, Clopyralid)	
14.6 Sp	pecial precautions for use	r	

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.



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14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH Candidate list of substances of very hig concern (SVHC) for Authorisation	gh :	Not applicable
The Persistent Organic Pollutants Regulations (reta Regulation (EU) 2019/1021 as amended for Great ain)		Not applicable
Regulation (EC) No 1005/2009 on substances that plete the ozone layer	de- :	Not applicable
UK REACH List of substances subject to authorisat (Annex XIV)	tion :	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.	5c Fl	_AMMABLE LIQUIDS
E	1 EI	NVIRONMENTAL HAZARDS

Registration Number : 19875

15.2 Chemical safety assessment

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

The substance 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

H226:Flammable liquid and vapour.H302:Harmful if swallowed.H304:May be fatal if swallowed and enters airways.H312:Harmful in contact with skin.
H304 : May be fatal if swallowed and enters airways.
H312 : Harmful in contact with skin.
H315 : Causes skin irritation.
H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.
H336 : May cause drowsiness or dizziness.
H373 : May cause damage to organs through prolonged or repeated
exposure.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.

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



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H411		: Toxic to aqu	atic life with long lasting effects.
Full to	ext of other abbrevia	ations	
Aquat Asp. Eye D Flam. Skin S STOT STOT Dow I Dow I Dow I ADR Ameri	tic Acute tic Chronic Tox. Dam. Liq. rrit. Sens. RE SE HG HG / TWA HG / TWA - Agreement concerni ican Society for the T	: Long-term (: Aspiration h : Serious eye : Flammable : Skin irritatio : Skin sensitis : Specific targ : Dow Industr : Time Weigh : Time weigh ng the International esting of Materials;	acute) aquatic hazard chronic) aquatic hazard azard damage liquids n sation get organ toxicity - repeated exposure get organ toxicity - single exposure ial Hygiene Guideline ted Average (TWA):
GHS	- Globally Harmonize	d System: GLP - Ga	od Laboratory Practice: IATA - International Air

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.

Further information				
Classification of the m	ixture:	Classification procedure:		
Flam. Liq. 3	H226	Based on product data or assessment		
Skin Irrit. 2	H315	Calculation method		
Eye Dam. 1	H318	Calculation method		
Skin Sens. 1B	H317	Based on product data or assessment		
STOT SE 3	H336	Based on product data or assessment		
STOT SE 3	H335	Based on product data or assessment		
STOT RE 2	H373	Calculation method		
Asp. Tox. 1	H304	Based on product data or assessment		
Aquatic Acute 1	H400	Based on product data or assessment		
Aquatic Chronic 1	H410	Based on product data or assessment		

Product code: GF-1652



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