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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	: THISTLEX™
Unique Formula Identifier (UFI)	: 71K0-V0DE-800H-K75T

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

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

1.3 Details of the supplier of the safety data sheet

COMPANY IDENTIFICATION

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

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

1.4 Emergency telephone number

SGS: +353 818 663 627

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Serious eye damage, Category 1H318: Causes serious eye damage.Specific target organ toxicity - single exposure, Category 3, Respiratory systemH335: May cause respiratory irritation.™ ® Trademarks of Corteva Agriscience and its affiliated companies.

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ersion 0	Revision Date: 09.04.2024	SDS Numbe 8000800034	
expo	ific target organ toxic sure, Category 2 t-term (acute) aquatic		H373: May cause damage to organs through pro- longed or repeated exposure. H400: Very toxic to aquatic life.
	-term (chronic) aquat	ic hazard, Cat-	H410: Very toxic to aquatic life with long lasting effects.
2 Label	elements		
	Iling (REGULATION	(EC) No 1272/20 :	
Signa	al word	: Danger	\mathbf{v} \mathbf{v} \mathbf{v}
Haza	rd statements	H335 M H373 M repeated	auses serious eye damage. ay cause respiratory irritation. ay cause damage to organs through prolonged or exposure. ery toxic to aquatic life with long lasting effects.
Preca	autionary statements	: Preventic	on:
		P273 Av	o not breathe mist or vapours. void release to the environment. 'ear eye protection/ face protection.
		Response	9:
		air and ke CENTER/ P305 + P3 with water sent and e POISON (B40 + P312 IF INHALED: Remove person to fresh ep comfortable for breathing. Call a POISON doctor if you feel unwell. B51 + P338 + P310 IF IN EYES: Rinse cautiously for several minutes. Remove contact lenses, if preeasy to do. Continue rinsing. Immediately call a CENTER/ doctor. bollect spillage.
		Disposal	
		posal con	spose of contents/container to a licensed waste dis tractor or collection site except for empty clean triple ntainers which can be disposed of as non-hazardou

Clopyralid Triethylamine Salt Triclopyr Triethylamine Salt triethylamine

Additional Labelling

- EUH401
- To avoid risks to human health and the environment, comply with the instructions for use.



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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.		
	REACH Registration		
	number		
Clopyralid Triethylamine Salt	119308-91-7	Eye Dam. 1; H318 Aquatic Chronic 1; H410	26.55
		M-Factor (Chronic aquatic toxicity): 10	
Triclopyr Triethylamine Salt	57213-69-1 260-625-1	Flam. Liq. 3; H226 Eye Irrit. 2; H319 STOT RE 2; H373 (Kidney) Aquatic Acute 1; H400 Aquatic Chronic 1; H410	24.26
triethylamine	121-44-8 204-469-4 612-004-00-5 01-2119475467-26- 0012, 01- 2119475467-26-0013	Flam. Liq. 2; H225 Acute Tox. 4; H302 Acute Tox. 3; H331 Acute Tox. 3; H311 Skin Corr. 1A; H314 Eye Dam. 1; H318 STOT SE 3; H335 (Respiratory system) 	>= 1 - < 3

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		I					
For e	For explanation of abbreviations see section 16.						

SECTION 4: First aid measures

4.1 Description of first aid meas	sures	5
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.
In case of eye contact	:	Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consul- tation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.
If swallowed	:	Call a poison control center or doctor immediately for treat- ment advice. Have person sip a glass of water if able to swal- low. Do not induce vomiting unless told to do so by the poison control center or doctor. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms a None known.	and e	ffects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

Treatment	: Maintain adequate ventilation and oxygenation of the patient. May cause asthma-like (reactive airways) symptoms. Bron- chodilators, expectorants, antitussives and corticosteroids may be of help.
	Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed 24-48 hours for signs of respiratory distress. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. No specific antidote.

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				symptoms and the Have the Safety E tainer or label with doctor, or going for Excessive exposu	re may aggravate preexisting asthma and lisorders (e.g. emphysema, bronchitis, reac-
SEC	TION	5: Firefighting meas	sur	es	
5.1 E	Extingu	iishing media			
	Suitabl	e extinguishing media	:	Water spray Alcohol-resistant f Carbon dioxide (C	
	Unsuita media	able extinguishing	:	Do not use direct High volume wate	
5.2 S	Special	hazards arising from	the	e substance or mix	ture
	Specifi fighting	c hazards during fire-)	:	Vapours may form Do not allow run-c courses.	bustion products may be a hazard to health. In explosive mixtures with air. Iff from fire fighting to enter drains or water le over considerable distance.
	Hazaro ucts	lous combustion prod-	:	tion to combustion be toxic and/or irri	ucts may include and are not limited to:
5.3 A	Advice	for firefighters			
		l protective equipment ighters	:	In the event of fire Use personal prot	, wear self-contained breathing apparatus. ective equipment.
	Specifi ods	c extinguishing meth-	:	so. Evacuate area. Use extinguishing cumstances and t Use water spray t Collect contamina must not be disch Fire residues and	ged containers from fire area if it is safe to do measures that are appropriate to local cir- he surrounding environment. to cool unopened containers. ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	Furthe	r information	:	Use water spray to fected zone until f passed.	vater stream as it may scatter and spread

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		fire. Use a water sp	pray to cool fully closed containers.		
SECTION	N 6: Accidental rele	ase measures			
6.1 Perso	nal precautions, prot	ective equipment an	d emergency procedures		
Perso	onal precautions	Use appropriat	protective equipment. The safety equipment. For additional information, In 8, Exposure Controls and Personal Protection.		
6.2 Enviro	onmental precautions	5			
Envir	onmental precautions	respective auth Discharge into Prevent further Prevent spread barriers). Retain and dis Local authoritie cannot be cont Prevent from e	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 Metho	ods and material for c	ontainment and clea	aning up		
6.3 Methods and material for cont Methods for cleaning up		ant. Local or nation posal of this m employed in. For large spills ment to keep n be pumped, Recovered ma The vent must with spilled ma pressurization Keep in suitabl Wipe up with a Non-sparking t Contain spillag sorbent materi miculite) and p / national regul Suppress (kno spray jet.	Clean up remaining materials from spill with suitable absorb- ant. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in. 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 with spilled materials can take place which could lead to over- pressurization of the container. Keep in suitable, closed containers for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Non-sparking tools should be used. Contain spillage, and then collect with non-combustible ab- sorbent material, (e.g. sand, earth, diatomaceous earth, ver- miculite) and place in container for disposal according to local / national regulations (see section 13). Suppress (knock down) gases/vapours/mists with a water spray jet. See Section 13, Disposal Considerations, for additional infor-		

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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 Use with local exhaust ventilation. Advice on safe handling To avoid spills during handling keep bottle on a metal tray. 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 application area. Do not breathe vapours or spray mist. Do not swallow. Do not get in eyes. Avoid contact with skin and eyes. Avoid prolonged or repeated contact with skin. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. 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 : Store in a closed container. No smoking. Containers which are areas and containers opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Store in accordance with the particular national regulations. Advice on common storage Strong oxidizing agents **Explosives**

Gases Packaging material : Unsuitable material: None known. 7.3 Specific end use(s) Specific use(s) : Plant protection products subject to Regulation (EC) No 1107/2009.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

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



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Comp	onents	CAS-No.	Value type (Form of exposure)	Control parameters	Basis				
triethy	/lamine	121-44-8	Limit Value - eight hours	2 ppm 8.4 mg/m3	2000/39/EC				
		Further infor skin, Indicat		possibility of significant up	otake through the				
			Short term expo- sure limit	3 ppm 12.6 mg/m3	2000/39/EC				
		Further infor skin, Indicat		possibility of significant up	otake through the				
			Occupational exposure limit value (15-minute reference period)	3 ppm 12.6 mg/m3	IE OEL				
			Further information: Substances which have the capacity to penetrate intact skin when they come in contact with it, and be absorbed into the body						
			Occupational exposure limit value (8-hour reference period)	2 ppm 8.4 mg/m3	IE OEL				
				which have the capacity to it, and be absorbed into					
			Time weighted average	1 ppm	Dow IHG				
			Short term expo- sure limit	3 ppm	Dow IHG				
ethan	ol	64-17-5	Occupational exposure limit value (15-minute reference period)	1,000 ppm	IE OEL				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health ef-	Value
			fects	
triethylamine	Workers	Inhalation	Acute systemic ef-	12.6 mg/m3
,			fects	Ŭ
	Workers	Inhalation	Acute local effects	12.6 mg/m3
	Workers	Skin contact	Long-term systemic effects	12.1 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	8.4 mg/m3
	Workers	Inhalation	Long-term local ef-	8.4 mg/m3
			fects	-
ethanol	Workers	Inhalation	Acute local effects	1900 mg/m3
	Workers	Skin contact	Long-term systemic	343 mg/kg
			effects	bw/day
	Workers	Inhalation	Long-term systemic	950 mg/m3
			effects	_
	Consumers	Inhalation	Acute local effects	950 mg/m3
	Consumers	Skin contact	Long-term systemic	206 mg/kg
			effects	bw/day
	Consumers	Inhalation	Long-term systemic	114 mg/m3

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



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		effects	
Consumers	Ingestion	Long-term systemic effects	87 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
triethylamine	Fresh water	0.064 mg/l
	Marine water	0.0064 mg/l
	Intermittent use/release	0.064 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	0.1992 mg/kg
	Soil	2.361 mg/kg
ethanol	Fresh water	0.96 mg/l
	Marine water	0.79 mg/l
	Intermittent use/release	2.75 mg/l
	Sewage treatment plant	580 mg/l
	Fresh water sediment	3.6 mg/kg
	Marine sediment	2.9 mg/kg
	Soil	0.63 mg/kg
	Oral (Secondary Poisoning)	720 mg/kg food

8.2 Exposure controls

Engineering measures

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

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

Local exhaust ventilation may be necessary for some operations.

Personal protective equipment

i ersonai protective equipi	ent
Eye/face protection	 Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.
Hand protection	
Remarks	: Use gloves chemically resistant to this material when pro- longed or frequently repeated contact could occur. Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). 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 according to EN 374) is rec- ommended. 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 specif-

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	and body protection iratory protection	from. The thick and type of mar sufficient protect the substance. known that mul protection at thi materials with a sufficient protect NOTICE: The s application and take into accour not limited to: C cal requirement protection), pot well as the insti- supplier. : Wear clean, bo : Respiratory pro- tial to exceed th	of the material that the glove is fabricated ness of the glove must, depending on model terial, generally be more than 0.35 mm to offer ction for prolonged and frequent contact with As an exception to this general rule it is tilayer laminate gloves may offer prolonged icknesses less than 0.35 mm. Other glove a thickness of less than 0.35 mm may offer ction when only brief contact is expected. election of a specific glove for a particular duration of use in a workplace should also nt all relevant workplace factors such as, but Other chemicals which may be handled, physi- ts (cut/puncture protection, dexterity, thermal ential body reactions to glove materials, as ructions/specifications provided by the glove dy-covering clothing.
		If there are no a guidelines, use Selection of air depend on the concentration of For emergency	applicable exposure limit requirements or an approved respirator. -purifying or positive-pressure supplied-air will specific operation and the potential airborne

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	:	Liquid.
Colour	:	Yellow to purple
Odour	:	Amine.
Odour Threshold	:	No data available
Melting point/range	:	Not applicable
Freezing point		No data available
Boiling point/boiling range	:	No data available
Flammability	:	Not applicable to liquids
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower	:	No data available

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	flamma	ability limit			
	Flash p	point	:	96.0 °C Method: closed o	sup
	Auto-ig	nition temperature	:	> 420 °C Method: EC Meth	nod A15
	рН		:	7.04 Concentration: 1 Method: CIPAC I 1% aqueous solu	MT 75.1
	Viscos Visc	ity cosity, dynamic	:	19.05 mPa,s (20 Method: OECD 1	
	Viso	cosity, kinematic	:	14.47 mm2/s (20 Method: OECD 1	
	Solubil Wa	ity(ies) ter solubility	:	Soluble	
	Vapou	r pressure	:	No data available	9
	Density	y	:	1.15 g/cm3 (20 ° Method: Pyknom	
	Relativ	e vapour density	:	No data available	9
9.2	Other in	nformation			
	Explos	ives	:	No	
	Oxidizi	ng properties	:	No	
	Evapoi	ration rate	:	No data available	9
	Surfac	e tension	:	36.6 mN/m, 40 °	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

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Hazardous reactions		No hazards Vapours ma	r recommended storage conditions. to be specially mentioned. y form explosive mixture with air. cplosive dust-air mixture.			
10.4 Cond	litions to avoid					
Conditions to avoid		: Heat, flames	s and sparks.			
10.5 Incor	npatible materials					
Mater	ials to avoid	: Strong acids Strong base				
10.6 Hazardous decomposition products Decomposition products depend upon temperature, air supply and the presence of other materi-						

als. Decomposition products can include and are not limited to: Carbon oxides Nitrogen oxides (NOx)

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): 2,279 mg/kg Method: OECD Test Guideline 401
Acute dermal toxicity	:	LD50 (Rat, male and female): > 5,000 mg/kg Method: OECD Test Guideline 402
Components:		
Clopyralid Triethylamine Sal	t:	
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Remarks: For similar active ingredient(s).
Acute inhalation toxicity	:	LC50 (Rat): > 1.3 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: For similar active ingredient(s). Maximum attainable concentration.
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg Remarks: For similar active ingredient(s).

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	Triclo	pyr Triethylamine Salf	t:		
		oral toxicity	:	LD50 (Rat): > 2,0	00 mg/kg
	Acute inhalation toxicity :		:	LC50 (Rat): > 2.6 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 achievable concentration.	
	Acute	dermal toxicity	:		2,000 mg/kg substance or mixture has no acute dermal
	triethy	/lamine:			
	-	oral toxicity	:	LD50 (Rat): 730 n	ng/kg
	Acute	inhalation toxicity	:	LC50 (Rat): 14.4 Exposure time: 1 Test atmosphere:	h
	Acute	dermal toxicity	:	LD50 (Rabbit): 58	0 mg/kg
	Skin c	orrosion/irritation			
	Produ	ct:			
	Specie Metho Result	es d	: : :	Rabbit OECD Test Guide No skin irritation	eline 404
	<u>Comp</u>	onents:			
	triethy	/lamine:			
	Specie Result		:	Rabbit Causes severe bu	irns.
	Seriou	us eye damage/eye irr	itati	on	
	Produ	<u>ct:</u>			
	Specie Metho Result	d	:	Rabbit OECD Test Guide Corrosive	eline 405
	<u>Comp</u>	onents:			
	Clopy Result	ralid Triethylamine Sa	l t: :	Corrosive	

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	Triclop	oyr Triethylamine Salt	t:		
	Result		:	Eye irritation	
	triethy	lamine:			
	Specie		:	Rabbit	
	Result		:	Corrosive	
	Respir	atory or skin sensitis	atio	on	
	Produc	<u>::</u>			
	Assess	ment	:	Does not cause s	kin sensitisation.
	Compo	onents:			
	Clopyr	alid Triethylamine Sa	lt:		
	Remar	ks	:	For similar active Did not cause alle pigs.	ingredient(s). rgic skin reactions when tested in guinea
	Remar	ks	:	For respiratory se No relevant data f	
	Triclop	oyr Triethylamine Salt	t:		
	Remar	ks	:	Did not demonstra	ate the potential for contact allergy in mice.
	Remar	ks	:	For respiratory se No relevant data f	
	triethy	lamine:			
	Specie Result		:	Mouse Does not cause s	kin sensitisation.
	Germ o	cell mutagenicity			
	<u>Compo</u>	onents:			
	Clopyr	alid Triethylamine Sa	lt:		
	•••	cell mutagenicity- As-	:		ingredient(s)., Clopyralid., In vitro genetic are negative., Animal genetic toxicity studies
	-	byr Triethylamine Salt cell mutagenicity- As- ent		In vitro genetic to:	xicity studies were negative.
	triethy	lamine:			
	Germ o sessme	ell mutagenicity- As- ent	:	In vitro genetic to: toxicity studies we	kicity studies were negative., Animal genetic ere negative.

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icity		
C 1		
IS:		
Friethylamine Salt	:	
city - Assess-	For similar active cancer in laborat	e ingredient(s)., Clopyralid., Did not cause tory animals.
iethylamine Salt:		
city - Assess-	For similar active cer in laboratory	e ingredient(s)., Triclopyr., Did not cause car animals.
ne: city - Assess-	Available data a	re inadequate to evaluate carcinogenicity.
ve toxicity		
is:		
riethylamine Salt		
	 For similar active did not interfere For similar active fects in test anim that were severe observed in anim 	e ingredient(s)., Clopyralid., In animal studies with reproduction. e ingredient(s)., Clopyralid caused birth de- nals, but only at greatly exaggerated doses ely toxic to the mothers. No birth defects wer nals given clopyralid at doses several times se expected during normal exposure.
iethylamine Salt:		
e toxicity - As-	mal studies, effe doses that produ Has been toxic t	e ingredient(s)., Triclopyr., In laboratory ani- ects on reproduction have been seen only at uced significant toxicity to the parent animals to the fetus in laboratory animals at doses her., Did not cause birth defects in laboratory
le exposure		
: :	May cause respi	iratory irritation.
: <u>S:</u>		
Friethylamine Salt	:	
		ailable data suggests that this material is no kicant.
iethylamine Salt:	Evaluation of or	ailable data suggests that this material is not
	riethylamine Salt	riethylamine Salt: : Evaluation of av an STOT-SE toy

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		an STOT-SE toxicant.
triath	ylamine:	
	sure routes	: Inhalation
	t Organs	: Respiratory Tract
	ssment	: May cause respiratory irritation.
стот	- repeated exposur	}
<u>Comp</u>	oonents:	
Triclo	pyr Triethylamine S	alt:
	t Organs	: Kidney
Asses	ssment	: May cause damage to organs through prolonged or repeat exposure.
Repe	ated dose toxicity	
<u>Comp</u>	oonents:	
Clopy	ralid Triethylamine	Salt:
Rema	ırks	: For similar active ingredient(s). Based on available data, repeated exposures are not antic pated to cause additional significant adverse effects.
Tricle	opyr Triethylamine S	alt
Rema		 In animals, effects have been reported on the following or- gans: Kidney.
trieth	ylamine:	
Rema	-	: Based on available data, repeated exposures are not antic pated to cause significant adverse effects.
Aspir	ation toxicity	
<u>Produ</u>	uct:	
Based	d on physical properti	es, not likely to be an aspiration hazard.
<u>Com</u>	oonents:	
	vralid Triethylamine	
Based	a on physical properti	es, not likely to be an aspiration hazard.

Based on available information, aspiration hazard could not be determined.



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triethylamine:

Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

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	:	Remarks: Material is very toxic to aquatic organisms (LC50/EC50/IC50 below 1 mg/L in the most sensitive species).
		LC50 (Oncorhynchus mykiss (rainbow trout)): > 130 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)): > 130 mg/l Exposure time: 48 h Test Type: flow-through test Method: OECD Test Guideline 202 or Equivalent
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): > 130 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 or Equivalent
		ErC50 (Lemna minor (duckweed)): > 130 mg/l Exposure time: 14 d Method: OECD 221.
		ErC50 (Myriophyllum spicatum): 0.582 mg/l Exposure time: 14 d
		NOEC (Myriophyllum spicatum): 0.0916 mg/l Exposure time: 14 d
Toxicity to soil dwelling or- ganisms	:	LC50: 650 mg/kg Exposure time: 14 d

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



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			Species: Eisenia f	etida (earthworms)
-	Toxicity to terrestrial organ- isms			I is slightly toxic to birds on an acute basis 01 and 2000 mg/kg).
			oral LD50: 1358 n Species: Colinus	ng/kg bodyweight. virginianus (Bobwhite quail)
			contact LD50: > 1 Species: Apis me	
			oral LD50: > 104 Species: Apis me	
Ec	otoxicology Assessment			
Ac	ute aquatic toxicity	:	Very toxic to aqua	tic life.
Cł	ronic aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
<u>Cc</u>	omponents:			
CI	opyralid Triethylamine Sa	lt:		
To	xicity to fish	:	Material is toxic to	ilar active ingredient(s). aquatic organisms (LC50/EC50/IC50 be- g/L in the most sensitive species).
			Exposure time: 96	hus mykiss (rainbow trout)): > 100 mg/l 3 h ilar active ingredient(s).
	xicity to daphnia and other uatic invertebrates	:	Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h ilar active ingredient(s).
	xicity to algae/aquatic ants	:	mg/l End point: Growth Exposure time: 72	2 h
			Remarks: For sim	liar material(s):
			ErC50 (Myriophyll Exposure time: 14 Remarks: For sim	
			NOEC (Myriophyl Exposure time: 14 Remarks: For sim	
	Factor (Chronic aquatic	:	10	
	kicity) xicity to terrestrial organ- ns	:		ilar active ingredient(s). toxic to birds on an acute basis (LD50 be-

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			tween 501 and 20 Material is practic (LC50 > 5000 ppr	ally non-toxic to birds on a dietary basis
Ecote	oxicology Assessment			
Acute	e aquatic toxicity	:	Harmful to aquation	c life.
			Toxic to aquatic li	fe.
Chror	nic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
Tricle	opyr Triethylamine Salt	:		
Toxic	ity to fish	:		nilar material(s): oxic to aquatic organisms (LC50/EC50/IC50 he most sensitive species).
			LC50 (Cyprinus c Exposure time: 96	arpio (Carp)): 350 mg/l 6 h
			LC50 (Lepomis m Exposure time: 96 Test Type: semi-s	
	ity to daphnia and other tic invertebrates	:	EC50 (eastern oy Exposure time: 48 Test Type: static t	
Toxic plants	ity to algae/aquatic s	:	ErC50 (Pseudokin mg/l End point: Growth Exposure time: 72	
			ErC50 (blue-gree Exposure time: 72 Test Type: Growt	
			EC50 (Lemna gib Exposure time: 7 Test Type: Growt	d
			ErC50 (Myriophyl Exposure time: 14 Remarks: For sim	
			NOEC (Myriophyl Exposure time: 14 Remarks: For sim	
Toxic isms	ity to terrestrial organ-	:	basis (LC50 > 500	ately toxic to birds on an acute basis (LD50

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				dietary LC50: 116	virginianus (Bobwhite quail) 22 mg/kg diet. virginianus (Bobwhite quail) 00 µg/bee 3 h
		Action of the set of 	:	Very toxic to aqua	tic life.
	Chronic	c aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
	-	lamine: / to fish	:	Exposure time: 96 Test Type: flow-th	
		 to daphnia and other invertebrates 	:	Exposure time: 48 Test Type: semi-s	
	Toxicity plants	/ to algae/aquatic	:	ErC50 (Pseudokir End point: Growth Exposure time: 72	
				NOEC (Pseudokir mg/l End point: Growth Exposure time: 72	
	Toxicity	/ to microorganisms	:	EC10 (Pseudomo End point: Growth Exposure time: 17 Test Type: Static	
				EC50 (Pseudomo End point: Growth Exposure time: 17 Test Type: Static	
	Toxicity icity)	/ to fish (Chronic tox-	:	LOEC: > 100 mg/l End point: mortalit Exposure time: 60 Species: Rainbow Test Type: semi-s	ty) d ⁄ trout (Oncorhynchus mykiss)

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



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aqua	Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)		NOEC: 7.1 mg/l End point: mortal Exposure time: 7 Species: Cerioda Test Type: semi-	d phnia dubia (water flea)
			LOEC: 14 mg/l End point: mortal Exposure time: 7 Species: Cerioda Test Type: semi-	d phnia dubia (water flea)
12.2 Per	sistence and degradabil	ity		
Con	nponents:			
Clo	oyralid Triethylamine Sa	lt:		
Bioc	legradability	:	Clopyralid. Material is expec	nilar active ingredient(s). ted to biodegrade very slowly (in the envi- o pass OECD/EEC tests for ready biodegra-
Tric	lopyr Triethylamine Salt	::		
Bioc	legradability	:	Triclopyr. Based on stringe be considered as sults do not nece	nilar active ingredient(s). nt OECD test guidelines, this material cannot readily biodegradable; however, these re- ssarily mean that the material is not biode- nvironmental conditions.
triet	hylamine:			
	legradability	:	Remarks: Materia test(s) for ready b Material is inhere	96 % 1 d Test Guideline 301A or Equivalent al is readily biodegradable. Passes OECD
12.3 Bio	accumulative potential			
<u>Con</u>	nponents:			
Clo	oyralid Triethylamine Sa	lt:		
	ition coefficient: n- nol/water	:	Clopyralid.	nilar active ingredient(s). potential is low (BCE < 100 or L og Pow < 3)

Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

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



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	Triclop	oyr Triethylamine Sal	t:			
	Partition coefficient: n- : octanol/water			nilar active ingredient(s). potential is low (BCF < 100 or Log Pow < 3).		
triethylamine:						
	Bioaccumulation :			Species: Cyprinu Exposure time: 4 Concentration: 0. Bioconcentration Method: Measure	2 d 05 mg/l factor (BCF): < 4.9	
	Partition coefficient: n- : octanol/water		log Pow: 1.45 Method: Measure Remarks: Biocon Pow < 3).	ed centration potential is low (BCF < 100 or Log		
12.4	12.4 Mobility in soil					
	Components:					
		alid Triethylamine Sa	alt:			
		ution among environ- compartments	:	Clopyralid.	nilar active ingredient(s). ility in soil is very high (Koc between 0 and	
	Triclop	oyr Triethylamine Sal	t:			
		ution among environ- compartments	:		nilar active ingredient(s). ility in soil is very high (Koc between 0 and	
	triethy	lamine:				
		ution among environ- compartments	:	Koc: 11 - 146 Method: Estimate Remarks: Potent tween 0 and 50).	ed. ial for mobility in soil is very high (Koc be-	
12.	12.5 Results of PBT and vPvB assessment					
-	Produc					
	Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.				stent, bioaccumulative and toxic (PBT), or	
	Compo	onents:				
		alid Triethylamine Sa	alt:			
	Assess	sment	:	This substance is	s not considered to be persistent, bioaccumu-	
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			oxic (PBT) This substance is not considered to be ent and very bioaccumulating (vPvB).
Triclo	opyr Triethylamine S	alt:	
	ssment	: This substa lating and to	nce is not considered to be persistent, bioaccumu- oxic (PBT) This substance is not considered to be ent and very bioaccumulating (vPvB).
trieth	ylamine:		
	ssment	lating and to	nce is not considered to be persistent, bioaccumu- oxic (PBT) This substance is not considered to be ent and very bioaccumulating (vPvB).
12.6 Endo	crine disrupting pro	perties	
Produ	uct:		
Asses	ssment	ered to hav REACH Art (EU) 2017/2	nce/mixture does not contain components consid- e endocrine disrupting properties according to icle 57(f) or Commission Delegated regulation 2100 or Commission Regulation (EU) 2018/605 at 1% or higher.
12.7 Othe	r adverse effects		
Com	oonents:		
	ralid Triethylamine	Salt:	
	e-Depletion Potential	: Remarks: T	his substance is not on the Montreal Protocol list es that deplete the ozone layer.
Triclo	opyr Triethylamine S	alt:	
Ozon	e-Depletion Potential		his substance is not on the Montreal Protocol list es that deplete the ozone layer.
trieth	ylamine:		
	e-Depletion Potential	Remarks: T	(Update: 27/06/2012 KS) his substance is not on the Montreal Protocol list es that deplete the ozone layer.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

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		wise contamina ator to determir material genera tion and dispos lations. If the material a	apply if the material has been used or other- ated. It is the responsibility of the waste gener- be the toxicity and physical properties of the ated to determine the proper waste identifica- al methods in compliance with applicable regu- as supplied becomes a waste, follow all appli- national and local laws.

SECTION 14: Transport information

14.	I UN number or ID number			
	ADR	:	UN 3082	
	RID	:	UN 3082	
	IMDG	:	UN 3082	
	ΙΑΤΑ	:	UN 3082	
14.2	2 UN proper shipping name			
	ADR	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr)	
	RID	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr)	
	IMDG	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triclopyr)	
	ΙΑΤΑ		Environmentally hazardous substance, liquid, n.o.s. (Triclopyr)	
		•		
14.:	B Transport hazard class(es)	•		
14.:		•		
14.3		:	(Triclopyr)	
14.:	3 Transport hazard class(es)	· :	(Triclopyr) Class Subsidiary risks	
14.:	3 Transport hazard class(es) ADR	· : :	(Triclopyr) Class Subsidiary risks 9	
14.:	3 Transport hazard class(es) ADR RID	· · ·	(Triclopyr) Class Subsidiary risks 9 9	
	3 Transport hazard class(es) ADR RID IMDG	:	(Triclopyr) Class Subsidiary risks 9 9 9 9	

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	Classif	g group ication Code I Identification Number	: : :	III M6 90 9	
	IMDG Packin Labels EmS C Remar		: :	III 9 F-A, S-F Stowage category	y A
	aircraft Packin	g instruction (cargo	:	964 Y964 III Miscellaneous	
	Packin ger airc Packin	Passenger) g instruction (passen- craft) g instruction (LQ) g group	:	964 Y964 III Miscellaneous	
14.	5 Enviro	nmental hazards			
	ADR Enviror	nmentally hazardous	:	yes	
	RID Enviror	nmentally hazardous	:	yes	
	IMDG Marine	pollutant	:	yes(Triclopyr)	

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.

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SECTION 15: Regulatory information

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

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

15.2 Chemical safety assessment

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

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

SECTION 16: Other information

Information Source and References

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

Full text of H-Statements

H225		Highly flammable liquid and vapour.
H226	:	Flammable liquid and vapour.
	•	
H302	•	Harmful if swallowed.
H311	:	Toxic in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.
H319	:	Causes serious eye irritation.
H331	:	Toxic if inhaled.
H335	:	May cause respiratory irritation.
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.
Full text of other abbreviatio	ns	
Acute Tox.	:	Acute toxicity
	-	

Acute Tox.: Acute toxicityAquatic Acute: Short-term (acute) aquatic hazard

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Aqua	atic Chronic		Long-term (chron	ic) aquatic hazard		
Eye Dam.		÷	Serious eye damage			
Eye		÷	Eye irritation			
	n. Liq.	÷	Flammable liquid	S		
	Corr.	:	Skin corrosion	-		
STO	TRE	:	Specific target or	gan toxicity - repeated exposure		
STOT SE		:	Specific target organ toxicity - single exposure			
2000/39/EC		:	Europe. Commission Directive 2000/39/EC establishing a first			
			list of indicative occupational exposure limit values			
Dow IHG		:	Dow Industrial Hygiene Guideline			
IE OEL		:	List of Chemical Agents and Carcinogens with Occupational			
			Exposure Limit Values - Code of Practice, Schedule 1 and 2			
2000/39/EC / TWA		:	Limit Value - eight hours			
2000/39/EC / STEL		:	Short term exposure limit			
Dow IHG / STEL		:	Short term exposure limit			
Dow IHG / TWA		:	Time weighted average			
IE OEL / OELV - 8 hrs (TWA)		:		osure limit value (8-hour reference period)		
	EL / OELV - 15 min	:	Occupational exp	osure limit value (15-minute reference peri-		
(STE	EL)		od)			

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

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

Further information

Classification of the r	nixture:	Classification procedure:
Eye Dam. 1	H318	Based on product data or assessment
STOT SE 3	H335	Based on product data or assessment
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Based on product data or assessment
Aquatic Chronic 1	H410	Based on product data or assessment

Product code: GF-210

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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