according to the OSHA Hazard Communication Standard



AUTHORITY® SUPREME HERBICIDE

Version 1.0	Revision Date: 03/15/2024	SDS Number: 50000799	Date of last issue: - Date of first issue: 03/15/2024
SECTION 1	. IDENTIFICATION		
<u>Produ</u> Produ	<u>ct identifier</u> ct name	AUTHORITY® S	SUPREME HERBICIDE
<u>Other</u> Produ	<u>means of identificatio</u> ct code	<u>n</u> 50000799	
Recon	nmended use of the c	hemical and restriction	ons on use
Recon	imended use	Can be used as	nerbicide only.
Restri	ctions on use	Use as recomme	ended by the label.
Details	s of the supplier of the	e safety data sheet	
<u>Manuf</u>	<u>acturer</u>	FMC Corporation 2929 WALNUT S PHILADELPHIA USA (215) 299-6000 SDS-Info@fmc.c	n ST PA 19104 com
<u>Suppli</u>	er Address	FMC Corporation 2929 Walnut Stro Philadelphia PA USA	n eet . 19104
<u>Emerg</u>	<u>lency telephone</u>	For leak, fire, sp 1 800 / 424-9300 1 703 / 741-5970 1 703 / 527-3887 Medical emerge U.S.A. & Canada All other countrie	ill or accident emergencies, call: 0 (CHEMTREC - U.S.A.) 0 (CHEMTREC - International) 7 (CHEMTREC - Alternate) ncy: a: +1 800 / 331-3148 es: +1 651 / 632-6793 (Collect)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Inhalation)	:	Category 4
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 1B

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GI Ha	HS label eleme azard pictogram	nts IS		! >
Si	gnal Word		: Danger	
Ha	azard Statemen	ts	: H332 Harmful if in H351 Suspected H360 May damag	nhaled. of causing cancer. ge fertility or the unborn child.
Pr	ecautionary Sta	atements	Prevention: P202 Do not han and understood. P261 Avoid breat P271 Use only ou P280 Wear prote face protection.	dle until all safety precautions have been read hing dust, fume, gas, mist, vapors or spray. utdoors or in a well-ventilated area. ctive gloves/ protective clothing/ eye protection/
			Response: P308 + P313 IF e attention. P304 + P340 IF I at rest in a positio	exposed or concerned: Get medical advice/ NHALED: Remove victim to fresh air and keep on comfortable for breathing.
			Storage: P405 Store locke	d up.
			Disposal: P501 Dispose of disposal plant.	contents and container to an approved waste

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

:

Components

Chemical name	CAS-No.	Concentration (% w/w)
Sulfentrazone	122836-35-5	20.66
Pyroxasulfone	447399-55-5	20.66
propane-1,2-diol	57-55-6	>= 5 - < 10
sodium diisopropylnaphthalenesul-	1322-93-6	>= 1 - < 5
phonate		
toluene	108-88-3	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice

Move out of dangerous area. Show this safety data sheet to the doctor in attendance.

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If inhaled		:	Do not leave the victim unattended. Move to fresh air. Consult a physician after significant exposure. If unconscious, place in recovery position and seek medic advice.			
In case of skin contact		:	Take off all contaminated clothing immediately. Wash contaminated clothing before reuse. Wash off immediately with soap and plenty of water. Get medical attention if irritation develops and persists.			
In case of eye contact		:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.			
If swallowed		:	Do not induce vomiting without medical advice. Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person If symptoms persist, call a physician.			
N a c	Most im and effe delayed	portant symptoms ects, both acute and	:	Harmful if inhaled. Suspected of caus May damage fertil	sing cancer. ity or the unborn child.	
F	Protecti	on of first-aiders	:	First Aid responde and use the recom Avoid inhalation, in If potential for exp personal protective	ers should pay attention to self-protection mended protective clothing ngestion and contact with skin and eyes. osure exists refer to Section 8 for specific e equipment.	
١	Notes to	o physician	:	Treat symptomatic	cally.	

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Dry chemical, CO2, water spray or regular foam.
Unsuitable extinguishing media	:	Do not spread spilled material with high-pressure water streams.
Specific hazards during fire fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion prod- ucts	:	Chlorinated compounds Fluorinated compounds Sulfur oxides Nitrogen oxides (NOx) Carbon oxides
Further information	:	Collect contaminated fire extinguishing water separately. This

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				must not be disch Fire residues and be disposed of in	arged into drains. contaminated fire extinguishing water must accordance with local regulations.
	Special for fire-	protective equipment fighters	:	Firefighters should breathing apparat	l wear protective clothing and self-contained us.
SEC	TION 6	. ACCIDENTAL RELE	ASI	EMEASURES	
	Person tive equ gency p	al precautions, protec- upment and emer- procedures	:	Evacuate personn Use personal prot If it can be safely Do not touch or w Never return spills Mark the contamir unauthorized pers	el to safe areas. ective equipment. done, stop the leak. alk through the spilled material. in original containers for re-use. hated area with signs and prevent access to onnel.
	Enviror	mental precautions	:	Prevent product fr Prevent further lea If the product cont respective authori	om entering drains. akage or spillage if safe to do so. aminates rivers and lakes or drains inform ties.
	Method contain	ls and materials for ment and cleaning up	:	Soak up with inert acid binder, unive Keep in suitable, o	absorbent material (e.g. sand, silica gel, sal binder, sawdust). losed containers for disposal.
SEC	TION 7	. HANDLING AND ST	OR/	AGE	
	Advice fire and	on protection against l explosion	:	Normal measures	for preventive fire protection.
	Advice	on safe handling	:	Avoid formation of	aerosol.

Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
propane-1,2-diol	57-55-6	TWA	10 mg/m3	US WEEL
toluene	108-88-3	TWA	20 ppm	ACGIH
		TWA	100 ppm 375 mg/m3	NIOSH REL
		ST	150 ppm 560 mg/m3	NIOSH REL
		TWA	200 ppm	OSHA Z-2
		CEIL	300 ppm	OSHA Z-2
		Peak	500 ppm (10 minutes)	OSHA Z-2
		TWA	100 ppm 375 mg/m3	OSHA P0
		STEL	150 ppm 560 ma/m3	OSHA P0

Biological occupational exposure limits

Components	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentra- tion	Basis
toluene	108-88-3	Toluene	In blood	Prior to last shift of work- week	0.02 mg/l	ACGIH BEI
		Toluene	Urine	End of shift (As soon as possible after exposure ceases)	0.03 mg/l	ACGIH BEI
		o-Cresol	Urine	End of shift (As soon as possible after exposure ceases)	0.3 mg/g creatinine	ACGIH BEI

Personal protective equipment

Respiratory protection

: No personal respiratory protective equipment normally required.

Hand protection

Material

: Wear chemical resistant gloves, such as barrier laminate,

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		butyl r	ober or nitrile rubber.			
Re	emarks	: The su with th	: The suitability for a specific workplace should be discusse with the producers of the protective gloves.			
Eye p	rotection	on : Eye wash bottle with pure water Tightly fitting safety goggles				
Skin and body protection		: Imper Choos centra	Impervious clothing Choose body protection according to the amount and con centration of the dangerous substance at the work place.			
Prote	ctive measures	: Plan fi Always struction Ensure located Wear s In the mende tions fe	at aid action before beginni have on hand a first-aid kit ns. that eye flushing systems a close to the working place uitable protective equipmer ontext of professional plant l, the end user must refer t	ng work with this product. t, together with proper in- and safety showers are t. t. t protection use as recom- o the label and the instruc-		
Hygie	ne measures	: When When Wash	sing do not eat or drink. sing do not smoke. ands before breaks and at	the end of workday.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	liquid
Color	:	No data available
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	5.22 (72.9 °F / 22.7 °C)
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	> 212 °F / > 100 °C
Upper explosion limit / Upper	:	No data available

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f	lamma	bility limit			
L f	Lower e ilamma	explosion limit / Lower bility limit	:	No data available	
١	Vapor p	pressure	:	No data available	
F	Relative	e vapor density	:	No data available	
F	Relative	e density	:	No data available	
[Density		:	10.1 lb/gal (67.3	°F / 19.6 °C)
				1.21 g/cm3 (67.3	°F / 19.6 °C)
E	Bulk de	nsity	:	No data availabl	e
S	Solubili Wate	ty(ies) er solubility	:	No data available)
	Solu	bility in other solvents	:	No data available	
F	Partitior octanol	n coefficient: n- /water	:	No data available	
A	Autoign	ition temperature	:	No data available)
[Decom	position temperature	:	No data available	
١	Viscosit Visc	y osity, dynamic	:	No data available)
	Visc	osity, kinematic	:	5320 mm2/s (70.	5 °F / 21.4 °C)
E	Explosi	ve properties	:	No data available)
C	Oxidizir	ng properties	:	No data available	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	No decomposition if stored and applied as directed.
Conditions to avoid	:	Avoid extreme temperatures. Protect from frost, heat and sunlight.
Incompatible materials	:	Avoid strong acids, bases, and oxidizers.

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	Hazaro produc	dous decomposition cts	:	No decomposition	on if stored and applied as directed.
SEC	TION 1	11. TOXICOLOGICAL	INF	ORMATION	
	Acute Harmfu	toxicity ul if inhaled.			
	<u>Produ</u> Acute	<u>ct:</u> oral toxicity	:	LD50 Oral (Rat):	3,129 mg/kg
	Acute	inhalation toxicity	:	LC50 (Rat): > 2.0 Exposure time: 4 Test atmosphere	07 mg/l h : dust/mist
	Acute	dermal toxicity	:	LD50 Dermal (Ra	at): > 5,000 mg/kg
	<u>Comp</u>	onents:			
	Sulfen	itrazone:			
	Acute	oral toxicity	:	LD50 (Rat, fema Symptoms: ataxi GLP: yes	le): 2,689 mg/kg a, clonic convulsions, Fatality
	Acute	inhalation toxicity	:	LC50 (Rat, male Exposure time: 4 Test atmosphere Method: EPA OF Symptoms: ataxi GLP: yes Remarks: no mo	and female): > 4.13 mg/l h : dust/mist PP 81 - 3 a, Breathing difficulties rtality
	Acute	dermal toxicity	:	LD50 (Rabbit, m Method: EPA OF GLP: yes Assessment: The single contact wi	ale and female): > 2,000 mg/kg PP 81-2 e component/mixture is minimally toxic after th skin.
	Pyrox	asulfone:			
	Acute	oral toxicity	:	LD50 (Rat): > 2,0 Remarks: no mo	000 mg/kg rtality
	Acute	inhalation toxicity	:	LC50 (Rat): > 6.9 Exposure time: 4 Test atmosphere Remarks: no mo	56 mg/l h : dust/mist rtality
	Acute	dermal toxicity	:	LD50 (Rat): > 2,0 Remarks: no mo	000 mg/kg rtality
	propa	ne-1,2-diol:			

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Acut	e oral toxicity	:	: LD50 (Rat, male and female): 22,000 mg/kg				
Acut	Acute inhalation toxicity Acute dermal toxicity		: LC0 (Rabbit): 31.7 mg/l Exposure time: 2 h Test atmosphere: vapor Remarks: no mortality				
Acut			LD50 (Rabbit): > 2,000 mg/kg Assessment: The substance or mixture has no acute dermal toxicity				
sod	ium diisopropylnaphtha	alen	esulphonate:				
Acut	e oral toxicity	:	LD50 (Rat, female Method: OECD T	e): > 300 - 2,000 mg/kg est Guideline 423			
tolu	ene:						
Acut	e oral toxicity	:	LD50 (Rat): 5,580) mg/kg			
Acut	e inhalation toxicity	:	LC50 (Rat, male) Exposure time: 4 Test atmosphere:	: 25.7 mg/l h : vapor			
			LC50 (Rat, female Exposure time: 4 Test atmosphere:	e): 30 mg/l h : vapor			
Acut	e dermal toxicity	:	(Rabbit): 12,267	mg/kg			
Skir	o corrosion/irritation						
Base	ed on available data, the	clas	sification criteria ar	re not met.			
Proc	duct:						
Spe Res	cies ult	:	Rabbit slight irritation				
<u>Con</u>	nponents:						
Sulf	entrazone:						
Spe	cies	:	Rabbit				
Asse	essment	:	No skin irritation				
Res	ult	:	No skin irritation				
GLP		:	yes				
Pyro	oxasulfone:						
Spe Res	cies ult	:	Rabbit No skin irritation				
prop	bane-1,2-diol:						
Spe	cies	:	Rabbit				

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	Methoo Result	3	:	OECD Test Gu No skin irritatio	uideline 404 on
	sodiur	n diisopropylnapht	halen	esulphonate:	
	Specie	s	:	reconstructed	human epidermis (RhE)
	Method	ł	:	OECD Test G	uideline 431
	Result		:	Corrosive after	r 4 hours or less of exposure
	toluen	e:			
	Specie	S	:	Rabbit	
	Assess	sment	:	Repeated expe	osure may cause skin dryness or cracking.
	Result			Skin irritation	
	Seriou	s eye damage/eye	irritat	ion	
	Based	on available data, th	ne clas	sification criteria	a are not met.
	Produc	<u>ct:</u>			
	Specie	S	:	Rabbit	
	Result		: Mild eye irritant		it
	Compo	onents:			
	Sulfen	trazone:			
	Specie	S	:	Rabbit	
	Result		:	No eye irritatio	in T
	Assess	sment			וח א
	GLP	1	:	yes	*
	Pyroxa	sulfone:			
	Specie			Pabbit	
	Result	3			
	propar	ne-1,2-diol:			
	Specie	S	:	Rabbit	
	Result		:	No eye irritatio	
	Method	3	:	OECD Test Gu	uideline 405
	sodiur	n diisopropylnaphi	halen	esulphonate:	
	Specie	S	:	Bovine cornea	
	Result		:	Irreversible eff	ects on the eye
	Method	L Contraction of the second seco	:	OECD Test G	uideline 437
	toluen	e:			
	Specie	S	:	Rabbit	
	Result		:	No eye irritatio	n

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I	Respiratory or skin sensitization								
	Skin s	ensitization							
	Based on available data, the classification criteria are not met.								
	Respir	atory sensitization							
l	Based	on available data, the	clas	sification criteria ar	e not met.				
<u> </u>	Produ	<u>ct:</u>							
1	Assess Result	sment	:	Not a skin sensiti Does not cause s	zer. kin sensitization.				
<u>(</u>	Comp	onents:							
:	Sulfen	trazone:							
-	Test Ty	ype	:	Maximization Tes	t				
;	Specie	S	:	Guinea pig					
	Method	b	:	OECD Test Guide	eline 406				
	Result		:	Does not cause s	kin sensitization.				
I	Pyroxa	asulfone:							
-	Test Ty	уре	:	Local lymph node	assay (LLNA)				
	Specie	S	:	Mouse					
	Result		:	Does not cause s	kin sensitization.				
I	propai	ne-1,2-diol:							
-	Test Ty	уре	:	Maximization Tes	t				
;	Specie	S	:	Guinea pig					
I	Result		:	negative					
:	sodium diisopropylnaphthalenesulphonate:								
-	Test Ty	ype	:	Direct Peptide Re	activity Assay (DPRA)				
I	Method	b	:	OECD Test Guide	eline 442C				
I	Result		:	Does not cause s	kin sensitization.				
1	toluen	e:							
-	Test Ty	уре	:	Maximization Tes	t				
:	Specie	S	:	Guinea pig					
l	Result		:	Not a skin sensitiz	zer.				
(Germ	cell mutagenicity							
I	Based	on available data, the	clas	sification criteria ar	e not met.				
<u>(</u>	Comp	onents:							
;	Sulfen	trazone:							
(Genoto	oxicity in vitro	:	Test Type: Ames Metabolic activati Result: negative	test on: with and without metabolic activation				

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				Test Type: Mouse Test system: mou Metabolic activatie Result: negative	e lymphoma assay se lymphoma cells on: Metabolic activation
	Genotoxicity in vivo		:	Test Type: Micror Species: Mouse Application Route Result: negative	nucleus test : Intraperitoneal injection
	Germ o Assess	ell mutagenicity - ment	:	Animal testing did	not show any mutagenic effects.
	Pyroxa	sulfone:			
	Genoto	oxicity in vitro	:	Test Type: Ames Result: negative	test
				Test Type: In vitro Result: negative	mammalian cell gene mutation test
				Test Type: Chrom Result: negative	nosome aberration test in vitro
	Genoto	oxicity in vivo	:	Test Type: Micror Species: Mouse Result: negative	nucleus test
	Germ cell mutagenicity - Assessment		:	Weight of evidence does not support classification as a g	
	propar	ne-1.2-diol:			
	Genoto	oxicity in vitro	:	Test Type: revers Result: negative	e mutation assay
	Genoto	oxicity in vivo	:	Test Type: In vivo Species: Mouse Result: negative	micronucleus test
	sodiun	n diisopropylnaphtha	len	esulphonate:	
	Genoto	exicity in vitro	:	Test Type: revers Metabolic activation Method: OECD To Result: negative	e mutation assay on: with and without metabolic activation est Guideline 471
	Genoto	oxicity in vivo	:	Remarks: No data	a available
	toluen	e:			
	Genoto	oxicity in vitro	:	Test Type: Ames Result: negative	test
				Method: OECD To	est Guideline 476

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			Result: negative	
Genotoxicity in	vivo	:	Test Type: Chrom Species: Rat Result: negative	osome aberration test in vitro
Carcinogenici Suspected of c	ty ausing cancer.			
Product: Carcinogenicity ment	v - Assess-	:	Limited evidence	of carcinogenicity in animal studies
Components:				
Sulfentrazone	:			
Species Application Rou Exposure time Result	ute	:	Rat, male and fem Ingestion 2 Years negative	nale
Species Application Rou Exposure time Result	ute	:	Mouse, male and Ingestion 18 month(s) negative	female
Carcinogenicity ment	/ - Assess-	:	Animal testing did	not show any carcinogenic effects.
Pyroxasulfone):			
Species Exposure time		::	Rat, male 2 Years 2.2 mg/kg bw/day	
Result Target Organs		:	positive Bladder	
Carcinogenicity ment	/ - Assess-	:	Limited evidence	of carcinogenicity in animal studies
propane-1,2-d	iol:			
Species		:	Rat	
Application Rou	ute	:	Oral 2 Voora	
Result		:	negative	
IARC	No ingredient identified as p	of ti roba	his product present able, possible or co	at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
OSHA	No componer on OSHA's lis	nt of st of	this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.

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	NTP	No ingredient identified as a	of t a kno	his product present own or anticipated	at levels greater than or equal to 0.1% is carcinogen by NTP.					
	Reproductive toxicity May damage fertility or the unborn child.									
	Produ	ct:								
	Repro	ductive toxicity - As- ent	:	Clear evidence of ity, and/or on deve	adverse effects on sexual function and fertil- elopment, based on animal experiments					
	<u>Comp</u>	onents:								
	Sulfer	trazone:								
	Effects	s on fertility	:	Test Type: Two-g Species: Rat, mal Application Route General Toxicity F General Toxicity F Symptoms: Mater	eneration study e and female : Oral Parent: NOEL: 13.7 - 16.2 mg/kg bw/day F1: NOEL: 13.7 - 16.2 mg/kg bw/day nal effects.					
	Effects	s on fetal development	:	Test Type: Embry Species: Rat Application Route General Toxicity M Developmental To Method: EPA OPH Test Type: Embry Species: Rat Application Route General Toxicity M Developmental To Symptoms: Skele Target Organs: sp Method: EPA OPH	o-fetal development : Oral Maternal: NOEL: 25 mg/kg bw/day oxicity: NOEL: 10 mg/kg bw/day > 83-3 o-fetal development : Oral Maternal: LOAEL: 50 mg/kg bw/day oxicity: LOAEL F1: 25 mg/kg bw/day tal malformations. oleen > 83-3					
	Pyrox	asulfone:								
	nrona	ne-1 2-diol·								
	Effects	s on fertility	:	Test Type: reprod Species: Mouse Application Route Result: negative	uctive and developmental toxicity study : Oral					
	Effects	s on fetal development	:	Test Type: Embry Species: Mouse Application Route Method: OECD To Result: Animal tes Remarks: Based of	o-fetal development : Oral est Guideline 414 sting did not show any effects on fertility. on data from similar materials					

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	Effects on fetal development		:	Species: Rat Application Route Result: Teratoger Remarks: Adverse	: Inhalation nic effects. e developmental effects were observed
	Reproc sessme	luctive toxicity - As- ent	:	Some evidence o fertility, and/or on	f adverse effects on sexual function and development, based on animal experiments.
	STOT- Based	single exposure on available data, the o	clas	sification criteria ar	e not met.
	Compo	onents:			
	Sulfen Remar	trazone: ks	:	No significant adv	verse effects were reported
	toluen Assess	e: ment	:	May cause drows	iness or dizziness.
	Causes repeate May ca May ca Compo	s damage to organs (N ed exposure. luse damage to organs luse damage to organs onents: trazone:	ervo s (he s (ini	ous system, Kidney ematopoietic systen ner ear) through pro	r, Liver, Heart, Bladder) through prolonged or n) through prolonged or repeated exposure. olonged or repeated exposure if inhaled.
	Sulfen Target Assess	trazone: Organs ment	:	hematopoietic sys The substance or	stem mixture is classified as specific target organ
				toxicant, repeated	a exposure, category 2.
	Pyroxa	asulfone:			
	Target	Organs	:	Nervous system,	Kidney, Liver, Cardio-vascular system, Blad-
	Assess	ment	:	The substance or toxicant, repeated	mixture is classified as specific target organ exposure, category 1.
	toluen	e:			
	Routes	of exposure	:	Inhalation	
	Target Assess	Organs ment	:	inner ear The substance or toxicant, repeated	mixture is classified as specific target organ I exposure, category 2.
	Repea	ted dose toxicity			
	Compo	onents:			
	Sulfen	trazone:			
	Specie	S	:	Rat, male	

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N L A E G T S N L A E T S N L A E T	IOAEL OAEL opplication Route exposure time GLP arget Organs opecies IOAEL oAEL opplication Route exposure time arget Organs opecies IOAEL oAEL oAEL oAEL oAEL oAEL oAEL oAEL o	 19.9 mg/kg 65.8 mg/kg Oral - feed 90-days yes hematopoietic sys Mouse, male 60 mg/kg 108.4 mg/kg Oral - feed 90-days hematopoietic sys bematopoietic sys Coral - feed 90-days hematopoietic sys Dog, male 10 mg/kg 28 mg/kg Oral - feed 90-days hematopoietic sys 	tem tem
P S N A E S N L A E S N L A E	propane-1,2-diol: ppecies IOAEL pplication Route posure time pecies IOAEL OAEL oAEL pplication Route pplication Route posure time	 Rat, male and fem 1,700 mg/kg Oral 2 Years Rat, male and fem 1,000 mg/kg 160 mg/kg Inhalation 90 Days 	nale
R	Remarks	: No data available	
te S A S S	oluene: pecies IOAEL pplication Route symptoms Species IOAEL	: Rat : 625 mg/kg : Oral : central nervous sy : Rat : 0.098 mg/l	rstem effects
A T S L A T	Application Route Test atmosphere Opecies OAEL Application Route Test atmosphere	 Inhalation vapor Rat 2.261 mg/l Inhalation vapor 	

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Aspiration toxicity

Based on available data, the classification criteria are not met.

Components:

Sulfentrazone:

The substance does not have properties associated with aspiration hazard potential.

toluene:

May be fatal if swallowed and enters airways.

Neurological effects

Components:

Sulfentrazone: Neurotoxity observed in animals studies

Further information

Product:

Remarks

: No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Sulfentrazone:

Toxicity to fish :	LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l Exposure time: 96 h Test Type: flow-through test Method: EPA OPP 72-1
	LC50 (Lepomis macrochirus (Bluegill sunfish)): 93.8 mg/l Exposure time: 96 h Test Type: flow-through test Method: EPA OPP 72-1
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): 60.4 mg/l Exposure time: 48 h Test Type: flow-through test
	NOEC (Daphnia magna (Water flea)): 14.1 mg/l Exposure time: 48 h Test Type: flow-through test
Toxicity to algae/aquatic : plants	EC50 (algae): 32.8 mg/l Exposure time: 72 h

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				EC50 (Pseudokiro mg/l Exposure time: 12	chneriella subcapitata (green algae)): 0.031
				EC50 (Lemna gibl Exposure time: 14	ba (duckweed)): 0.0288 mg/l · d
				EC50 (Navicula p Exposure time: 12	elliculosa (Diatom)): 0.042 mg/l 0 h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Fish): 5.9 Exposure time: 21	mg/l d
	Toxicity aquatic ic toxici	to daphnia and other invertebrates (Chron- ty)	:	NOEC (Crustacea Exposure time: 21	ns): 0.51 mg/l d
	Toxicity isms	to terrestrial organ-	:	LD50 (Anas platyr End point: Acute o	hynchos (Mallard duck)): > 5,620 ppm pral toxicity
				NOEL (Anas platy End point: Acute o	rhynchos (Mallard duck)): 3,160 ppm pral toxicity
				LD50 (Colinus virg End point: Acute o	ginianus (Bobwhite quail)): > 5,620 ppm pral toxicity
				NOEL (Colinus vir End point: Acute o	ginianus (Bobwhite quail)): 5,620 ppm oral toxicity
				NOEL (Colinus vir End point: Reproc	ginianus (Bobwhite quail)): > 100 ppm luction Test
				NOEL (Anas platy End point: Reproc	rhynchos (Mallard duck)): > 100 ppm luction Test
				LD50 (Apis mellife End point: Acute o	era (bees)): > 25 μg/bee oral toxicity
				LD50 (Apis mellife End point: Acute o	era (bees)): > 200 μg/bee contact toxicity
	Ecotox	icology Assessment			
	Acute a	quatic toxicity	:	Very toxic to aqua	tic life.
	Chronic	aquatic toxicity	:	Very toxic to aqua	tic life with long lasting effects.
	Pyroxa	sulfone:			
	Toxicity	to fish	:	LL50 (Oncorhynch Exposure time: 96	nus mykiss (rainbow trout)): > 202 mg/l i h
				LL50 (Lepomis ma Exposure time: 96	acrochirus (Bluegill sunfish)): > 208 mg/l i h

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			LL50 (Cyprinodon mg/l Exposure time: 96	variegatus (sheepshead minnow)): > 3.3 h
Tox aqu	icity to daphnia and other atic invertebrates	:	EL50 (Daphnia ma Exposure time: 48	agna (Water flea)): > 4.4 mg/l h
Tox plar	icity to algae/aquatic hts	:	ErC50 (green alga Exposure time: 72	e): 0.000743 mg/l h
			EC50 (Lemna gibl Exposure time: 7 d	ba (duckweed)): 0.00043 mg/l d
Tox icity	icity to fish (Chronic tox-	:	NOEC (Pimephale Exposure time: 28	es promelas (fathead minnow)): 2 mg/l d
Tox aqu ic to	icity to daphnia and other atic invertebrates (Chron- oxicity)	:	NOEC (Daphnia n Exposure time: 21	nagna (Water flea)): 1.9 mg/l d
Tox gan	icity to soil dwelling or- isms	:	LC50 (Eisenia feti Exposure time: 14	da (earthworms)): > 997 mg/kg d
Tox ism:	icity to terrestrial organ- s	:	LD50 (Apis mellife Exposure time: 48 Remarks: Contact	ra (bees)): > 100 μg/bee d
			LOEC (Anas platy End point: Reprod	rhynchos (Mallard duck)): 60 mg/kg uction Test
pro	pane-1,2-diol:			
Tox	icity to fish	:	LC50 (Oncorhyncl Exposure time: 96	nus mykiss (rainbow trout)): 40,613 mg/l h
Tox aqu	icity to daphnia and other atic invertebrates	:	(Mysidopsis bahia Exposure time: 96	a (opossum shrimp)): 18,800 mg/l h
Tox plar	icity to algae/aquatic nts	:	EC50 (Pseudokirc mg/l Exposure time: 48 Method: OECD Te	hneriella subcapitata (green algae)): 34,100 h est Guideline 201
Tox aqu ic to	icity to daphnia and other atic invertebrates (Chron- oxicity)	:	NOEC: 13,020 mg Exposure time: 7 d	۱/۱ ۲
Тох	icity to microorganisms	:	EC50 (Pseudomo Exposure time: 18	nas putida): > 20,000 mg/l h

sodium diisopropylnaphthalenesulphonate:

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 72 mg/l

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	aquatic invertebrates			Exposure time: 48 Test Type: static t Method: OECD T	3 h est est Guideline 202
	Toxicit <u>y</u> plants	y to algae/aquatic	:	EC50 (Pseudokiro Exposure time: 72 Test Type: static t Method: OECD To	chneriella subcapitata (algae)): > 100 mg/l 2 h est est Guideline 201
				NOEC (Pseudokii Exposure time: 72 Test Type: static t Method: OECD To	rchneriella subcapitata (algae)): 10 mg/l 2 h rest est Guideline 201
	toluen	e:			
	Toxicity	/ to fish	:	LC50 (Fish): 5.5 r Exposure time: 96	ng/l S h
	Toxicity aquation	y to daphnia and other invertebrates	:	EC50: 3.78 mg/l Exposure time: 48	3 h
	Toxicity plants	/ to algae/aquatic	:	NOEC (Skeletone Exposure time: 72	ma costatum (marine diatom)): 10 mg/l 2 h
	Toxicity	y to fish (Chronic tox-	:	NOEC (Oncorhyn	chus kisutch (coho salmon)): 1.4 mg/l
	Toxicity aquatic ic toxic	y to daphnia and other invertebrates (Chron- ity)	:	NOEC (Ceriodapl Exposure time: 7	nnia sp.): 0.74 mg/l d
	Toxicity	y to microorganisms	:	EC50 (Bacteria): Exposure time: 3	134 mg/l h
	Persis	tence and degradabil	ity		
	Compo	onents:			
	Sulfen	trazone:			
	Biodeg	radability	:	Result: Not readil	y biodegradable.
	Stabilit	y in water	:	Degradation half I	ife (DT50): 2.22 - 9.56 h
	Photod	egradation	:	Remarks: Decom	poses rapidly in contact with light.
	Pyroxa Biodeg	asulfone: radability	:	Result: Not readil	y biodegradable.
	propa r Biodeg	ne-1,2-diol: radability	:	Result: Readily bi Biodegradation: 2	odegradable. 23.6 %

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Vers 1.0	sion	Revision Date: 03/15/2024	SE 50	DS Number: 000799	Date of last issue: - Date of first issue: 03/15/2024
				Exposure time: 64 Method: OECD Te	4 d est Guideline 306
	sodiun	n diisopropylnaphtha	alene	esulphonate:	
	Biodeg	radability	:	Inoculum: activate Result: Not readil Biodegradation: 2 Exposure time: 2 Method: OECD To	ed sludge, non-adapted y biodegradable. 2 % 1 d est Guideline 301D
	toluen	e:			
	Biodeg	radability	:	Result: Readily bi	odegradable.
	Bioacc	umulative potential			
	Compo	onents:			
	Sulfen	trazone:			
	Bioacci	umulation	:	Species: Lepomis GLP: yes Remarks: Low po	macrochirus (Bluegill sunfish) tential for bioaccumulation
	Partitio octanol	n coefficient: n- l/water	:	: Pow: 9.8 pH: 7	
	Pyroxa	asulfone:			
	Bioacci	umulation	:	Remarks: Bioaccu	umulation is unlikely.
	Partitio octanol	n coefficient: n- l/water	:	log Pow: 2.39 (77	°F / 25 °C)
	propar	ne-1,2-diol:			
	Partitio octanol	n coefficient: n- l/water	:	log Pow: -1.07	
	sodiun	n diisopropylnaphtha	alene	esulphonate:	
	Partitio octanol	n coefficient: n- l/water	:	log Pow: > 2.6 (68	3 °F / 20 °C)
	toluen	e:			
	Bioaccu	umulation	:	Bioconcentration	factor (BCF): 90
	Partitio octanol	n coefficient: n- l/water	:	log Pow: 2.73 (68	°F / 20 °C)

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	Mobilit	ty in soil			
	<u>Compo</u>	onents:			
	Sulfen	trazone:			
	Mobility	ý	:	Medium: Water Remarks: Predict ments	ed distribution to environmental compart-
	Distribu mental	ution among environ- compartments	:	Koc: 43 ml/g, log Remarks: Highly	Koc: 1.63 mobile in soils
	Stabilit	y in soil	:	Remarks: Very pe	ersistent in soil.
	Pyroxa	asulfone:			
	Distribu mental	ution among environ- compartments	:	Adsorption/Soil Koc: 57 - 114 ml/g Remarks: Highly	g, log Koc: > 1.75 mobile in soils
	Stabilit	y in soil	:		
	Other a	adverse effects			
	Produc	<u>ct:</u>			
	Ozone	Depletion Potential	:	Regulation: 40 CF tection of Stratosp Substances	FR Protection of Environment; Part 82 Pro- oheric Ozone - CAA Section 602 Class I
				Remarks: This protocol tured with a Class Clean Air Act Sec	oduct neither contains, nor was manufac- s I or Class II ODS as defined by the U.S. tion 602 (40 CFR 82, Subpt. A, App.A + B).
	Additio mation	nal ecological infor-	:	An environmental unprofessional ha Very toxic to aqua	hazard cannot be excluded in the event of andling or disposal. atic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods	
Waste from residues	 The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,
		N.U.S. (Duravagulfana, Sulfantrazona)
Class		(Fyroxasullone, Sullentrazone) 9
Packing group	÷) III
Labels	÷	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Pyroxasulfone, Sulfentrazone)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
		(Pyroxasulfone, Sulfentrazone)
Class	:	9
Packing group	:	
	-	
manne pollutant		yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR Road

Not regulated as a dangerous good

Special precautions for user

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

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

according to the OSHA Hazard Communication Standard



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Comp	onents	CAS-	No.	Component RQ (lbs)	Calculated product R (lbs)
toluen	e	108-8	8-3	100	100 (F005)
SARA This n	304 Extremely Haz naterial does not cont	ardous Substa ain any compo	ances R nents wi	eportable Quantity th a section 304 EHS	RQ.
SARA This n	A 302 Extremely Haz naterial does not cont	ardous Substa ain any compo	a nces TI nents wi	hreshold Planning C th a section 302 EHS	uantity TPQ.
SARA	311/312 Hazards	: No SAF	RA Haza	rds	
SARA	313	: The foll tablishe	lowing co ed by SA	omponents are subject RA Title III, Section 3	et to reporting levels es 13:
		toluene	!	108-88-3	>= 1 - < 5 %
Clean	Air Act				
This p the U. The fo 61):	roduct neither contain S. Clean Air Act Sect Iollowing chemical(s) a	ns, nor was ma ion 602 (40 CF are listed as HA	nufactur R 82, Sเ P under	ed with a Class I or C ubpt. A, App.A + B). the U.S. Clean Air Ac	lass II ODS as defined et, Section 112 (40 CFF
This p	toluene product does not conta ental Release Preven	108- ain any chemic tion (40 CFR 6	-88-3 als listec 8.130, S	l under the U.S. Clear ubpart F).	>= 1 - < 5 % h Air Act Section 112(r)
The for ate or	ollowing chemical(s) a Final VOC's (40 CFF	are listed under 8 60.489):	the U.S.	. Clean Air Act Sectio	n 111 SOCMI Intermed
	propane-1,2-diol toluene	57-5 108-	5-6 -88-3	;	>= 5 - < 10 % >= 1 - < 5 %
Clean	Water Act				
The fo	ollowing Hazardous S 6.4A:	ubstances are	listed un	der the U.S. CleanWa	ater Act, Section 311, T
The fo 117.3:	toluene bllowing Hazardous C :	108 hemicals are li	-88-3 sted und	er the U.S. CleanWat	>= 1 - < 5 % er Act, Section 311, Ta
This p 307	toluene product contains the fo	108- ollowing toxic p	-88-3 ollutants	listed under the U.S.	>= 1 - < 5 % Clean Water Act Secti
This p	toluene product contains the for toluene	108 Ilowing priority 108	-88-3 [,] pollutar -88-3	nts related to the U.S.	>= 1 - < 5 % Clean Water Act: >= 1 - < 5 %
US St	ate Regulations				
Mass	achusetts Right To	Know			
	toluene				108-88-3
Penns	sylvania Right To K	now			
	water Sulfentrazone Pyroxasulfone propane-1,2-diol				7732-18-5 122836-35-5 447399-55-5 57-55-6 108-88-3

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	sodium sulphate			7757-82-6
Main	e Chemicals of High	Conc	ern	
	toluene			108-88-3
.,	octamethylcyclot	etrasil	oxane [D4]	556-67-2
Vern	nont Chemicals of Hig	gh Co	ncern	108.88.3
	octamethylcyclot	etrasil	oxane [D4]	556-67-2
Was	hington Chemicals of	f High	Concern	
	toluene			108-88-3
Calif	ornia Prop. 65			
WAR the S to wy	NING: This product ca State of California to ca ww.P65Warnings.ca.go	an exp iuse bi ov.	ose you to chem rth defects or oth	icals including toluene, which is/are known to ner reproductive harm. For more information go
Calif	ornia List of Hazardo	us Su	bstances	
	toluene			108-88-3
Calif	ornia Permissible Ex	posur	e Limits for Ch	emical Contaminants
	toluene	•		108-88-3
TCS	Ingreaients of this pr	oauct	Not in complian	the following inventories:
		•		
TSC	A	:	Product contain	ns substance(s) not listed on TSCA inventory.
AIIC		:	Not in compliar	nce with the inventory
DSL		:	This product co on the Canadia	ontains the following components that are not in DSL nor NDSL.
			Sulfentrazone	
			Pyroxasulfone	
			BENTONE EW	,
ENC	S	:	Not in compliar	nce with the inventory
ISHL	-	:	Not in compliar	nce with the inventory
KEC	I	:	Not in compliar	nce with the inventory
PICC	CS	:	Not in compliar	nce with the inventory
IECS	SC	:	Not in compliar	nce with the inventory
NZIo	C	:	Not in compliar	nce with the inventory
TEC	I	:	Not in compliar	nce with the inventory

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TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



0 No health threat, **1** Slightly Hazardous, **2** Hazardous, **3** Extreme danger, **4** Deadly

Full text of other abbreviations

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

115	
:	USA. ACGIH Threshold Limit Values (TLV)
•	ACGIH - Biological Exposure Indices (BEI)
:	USA. NIOSH Recommended Exposure Limits
:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
:	USA. Occupational Exposure Limits (OSHA) - Table Z-2
:	USA. Workplace Environmental Exposure Levels (WEEL)
:	8-hour, time-weighted average
:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
:	8-hour time weighted average
:	Short-term exposure limit
:	8-hour time weighted average
:	Acceptable ceiling concentration
:	Acceptable maximum peak above the acceptable ceiling con- centration for an 8-hr shift
:	8-hr TWA

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AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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Prepared by:

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SDS Number: 50000799

Date of last issue: -Date of first issue: 03/15/2024

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End of Material Safety Data Sheet