

## FUZILIER SELECTIVE HERBICIDE

Vers 1.0	ion	Revision Date: 17.10.2023		S Number: 001558	Date of last issue: - Date of first issue: 17.10.2023				
SEC	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION								
	Product	tname	:	FUZILIER SELE	CTIVE HERBICIDE				
	Recom	mended use of the c	hem	ical and restriction	ons on use				
	Recom	mended use	:	Can be used as	herbicide only.				
	Restrict	ions on use	:	Use as recomme	ended by the label.				
	Manufa	acturer or supplier's	deta	ils					
	Compa	ny	:	FMC Corporation	n				
	Addres	S	:	2929 WALNUT S PHILADELPHIA USA					
	Telepho	one	:	1 800 066 355					
	Telefax		:	(02)9923 6011					
	E-mail a	address	:	SDS-Info@fmc.c	com				
	Emerge	ency telephone numbe	er :	1800 033 111 (I Medical emerger					
				(					

## SECTION 2. HAZARDS IDENTIFICATION

GHS Classification		
Flammable liquids	:	Category 4
Serious eye damage/eye irri- tation	:	Category 2A
Carcinogenicity	:	Category 2
Reproductive toxicity	:	Category 2
Specific target organ toxicity - single exposure	:	Category 3 (Central nervous system)
Aspiration hazard	:	Category 1

### GHS label elements



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Hazaı	rd pictograms	:		
Signa	l word	:	Danger	•
Hazard statements		<ul> <li>H227 Combustible liquid.</li> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H319 Causes serious eye irritation.</li> <li>H336 May cause drowsiness or dizziness.</li> <li>H351 Suspected of causing cancer.</li> <li>H361 Suspected of damaging fertility or the unborn ch</li> </ul>		
Suppl ments	lemental Hazard State-	:	AUH066 Rep ing.	eated exposure may cause skin dryness or cra
	utionary statements	:	P202 Do not and understo P210 Keep a and other ign P261 Avoid b P264 Wash s P271 Use on P280 Wear p	special instructions before use. handle until all safety precautions have been re od. way from heat, hot surfaces, sparks, open flame ition sources. No smoking. reathing mist or vapours. kin thoroughly after handling. ly outdoors or in a well-ventilated area. rotective gloves/ protective clothing/ eye protec tection/ hearing protection.
			CENTER/ do P304 + P340 and keep con doctor if you f P305 + P351 for several m easy to do. C P308 + P313 attention. P331 Do NO P337 + P313 tention. P370 + P378	+ P312 IF INHALED: Remove person to fresh nfortable for breathing. Call a POISON CENTER
			Storage: P403 + P233 tightly closed P405 Store lo	
			Disposal:	e of contents/ container to an approved waste



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Other hazards which do not result in classification

Very toxic to aquatic life with long lasting effects.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
fluazifop-P-butyl (ISO)	79241-46-6	>= 20 -< 25
Solvent naphtha (petroleum), heavy arom.;	64742-94-5	>= 50 -< 70
Kerosine — unspecified		
Benzenesulfonic acid, C10-16-alkyl derivs.,	68584-23-6	>= 1 -< 3
calcium salts		
2-ethylhexan-1-ol	104-76-7	< 10

#### **SECTION 4. FIRST AID MEASURES**

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Symptoms of poisoning may appear several hours later. Do not leave the victim unattended.
If inhaled	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	:	Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.
Most important symptoms and effects, both acute and delayed	:	May be fatal if swallowed and enters airways. Causes serious eye irritation. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Repeated exposure may cause skin dryness or cracking.
Notes to physician	:	Treat symptomatically.



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SECTION	N 5. FIREFIGHTING MEA	SU	RES	
Suita	able extinguishing media	:	Dry chemical, CO	2, water spray or regular foam.
Uns med	uitable extinguishing ia	:	High volume wate	r jet
Spe fight	cific hazards during fire- ing	:	Do not allow run-o courses.	off from fire fighting to enter drains or water
Haz: ucts	ardous combustion prod-	:	Fire may produce Fluorinated compo- Hydrogen fluoride Carbon oxides Nitrogen oxides (N Hydrogen cyanide Chlorine compour	NOx)
Specods	Specific extinguishing meth- ods		Collect contaminated fire extinguishing water separately. must not be discharged into drains. Fire residues and contaminated fire extinguishing water m be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored s rately in closed containments. Use a water spray to cool fully closed containers.	
	cial protective equipment refighters	:	Firefighters should breathing apparat	d wear protective clothing and self-contained us.
Haz	chem Code	:	•3Z	

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Ensure adequate ventilation.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	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). Keep in suitable, closed containers for disposal.

### SECTION 7. HANDLING AND STORAGE

Advice on protection against	:	Do not spray on a naked flame or any incandescent material.
fire and explosion		Keep away from open flames, hot surfaces and sources of
		ignition.



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Advice on safe handling		:	<ul> <li>Avoid formation of aerosol. Do not breathe vapours/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 plication area. Provide sufficient air exchange and/or exhaust in work ro Dispose of rinse water in accordance with local and natio regulations.</li> </ul>				
Hygi	ene measures	:	When using do no When using do no Wash hands befo				
Cond	ditions for safe storage	:	place. Containers which kept upright to pro Observe label pre	ecautions. ions / working materials must comply with			
	ner information on stor- stability	:	No decomposition	n if stored and applied as directed.			

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis	
Solvent naphtha (petroleum), heavy arom.; Kerosine — un- specified	64742-94-5	TWA	200 mg/m3 (total hydrocarbon vapor)	ACGIH	
2-ethylhexan-1-ol	104-76-7	TWA	5 ppm	ACGIH	
Personal protective equipmen	t				
Respiratory protection :			ol exposure wear suind protective suit.	table per-	
Hand protection Material :		al resistant glove r nitrile rubber.	es, such as barrier lan	ninate,	
Remarks :		for a specific we icers of the prote	orkplace should be di ective gloves.	scussed	
Eye protection :	Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing				





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			problems.				
Skin	Skin and body protection		: Impervious clothing Choose body protection according to the amount and con- centration of the dangerous substance at the work place.				
SECTION	9. PHYSICAL AND CH	EMIC		ES			
Physi	ical state	:	liquid				
Form		:	liquid				
Colou	ır	:	clear, amber				
Odou	ır	:	hydrocarbon-lik	e			
рН		:	3.5 - 6 (1% emulsion)				
Meltir	ng point/freezing point	:	not determined				
Boilin	g point/boiling range	:	not determined				
Flash	point	:	not determined				
Self-i	gnition	:	260 °C				
	r explosion limit / Upper nability limit	:	not determined				
	r explosion limit / Lower nability limit	:	not determined				
Dens	ity	:	0.98 - 1 g/cm3 (	(20 °C)			
	pility(ies) ater solubility	:	emulsifiable				
	ion coefficient: n- ol/water	:	Not applicable				
Visco Vi	sity scosity, kinematic	:	not determined				
Explo	osive properties	:	Not explosive				
Oxidi	zing properties	:	Non-oxidizing				



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Particle size		:	Not applicable	
SECTION	10. STABILITY AND RE	EAC	ΤΙVITY	
Reac	tivity	:	No decompositio	n if stored and applied as directed.
Cherr	nical stability	:	No decompositio	n if stored and applied as directed.
Possi tions	ibility of hazardous reac-	:		n if stored and applied as directed. m explosive mixture with air.
Cond	itions to avoid	:	Heat, flames and	l sparks.
Incon	Incompatible materials		Strong acids and Strong bases	strong bases
Haza produ	rdous decomposition	:	Stable under rec	ommended storage conditions.
	<b>e toxicity</b> lassified due to lack of da	ata.		
Prod			Acute toxicity esti Exposure time: 4 Test atmosphere: Method: Calculati	h dust/mist
Com	ponents:			
	ifop-P-butyl (ISO):			
	e oral toxicity	:	LD50 (Rat, male)	: 5,013 mg/kg
			LD50 (Rat, female	e): 3,687 mg/kg
Acute	e inhalation toxicity	:	LC50 (Rat): > 5.2 Exposure time: 4 Test atmosphere: Assessment: The tion toxicity	h
Acute	e dermal toxicity	:	LD50 (Rabbit): > 2	2,000 mg/kg
Solve	ent naphtha (petroleum	), he	eavy arom.; Keros	sine — unspecified:
Acute	e oral toxicity	:	Method: OECD T	and female): > 5,000 mg/kg est Guideline 401 on data from similar materials





rsion	Revision Date: 17.10.2023	SDS Number: 50001558	Date of last issue: - Date of first issue: 17.10.2023				
		tion toxicity	The substance or mixture has no acute inhala- eed on data from similar materials				
Acute dermal toxicity		Method: OEC Assessment: toxicity	Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal				
Benze	enesulfonic acid, C1	0-16-alkyl derivs., ca	alcium salts:				
Acute	oral toxicity	Method: OEC	ale and female): > 5,000 mg/kg D Test Guideline 401 eed on data from similar materials				
Acute	inhalation toxicity	Exposure time Test atmosph Method: OEC					
Acute	dermal toxicity		male and female): > 4,000 mg/kg ed on data from similar materials				
2-ethy	ylhexan-1-ol:						
Acute	oral toxicity	: LD50 (Rat, ma	ale): 2,047 mg/kg				
Acute	inhalation toxicity	: LC50 (Rat): 4. Exposure time Test atmosphe	e: 4 h				
Acute	dermal toxicity	Method: OEC	ale and female): > 3,000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal				
	corrosion/irritation						
-		ause skin dryness or c	cracking.				
<u>Prodι</u> Rema		: May cause sk	in irritation and/or dermatitis.				
<u>Comp</u>	oonents:						
fluazi	fop-P-butyl (ISO):						
Speci Resul		: Rabbit : No skin irritatio	on				
Solve	nt naphtha (petrole	ım), heavy arom.; Ke	erosine — unspecified:				
Speci		: Rabbit					
Resul	τ	: No skin irritation	on				



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Asses	ssment	: Repeated ex	posure may cause skin dryness or cracking
	enesulfonic acid, C1	-	
Asses	ssment	: Irritating to sl	kin.
2-ethy	ylhexan-1-ol:		
Speci		: Rabbit	
Metho		: OECD Test (	
Resul	t	: Skin irritation	
Serio	us eye damage/eye	irritation	
Cause	es serious eye irritatio	on.	
<u>Produ</u>			
Rema	urks	: May cause ir	reversible eye damage.
Comp	oonents:		
fluazi	fop-P-butyl (ISO):		
Speci		: Rabbit	
Resul	t	: slight irritation	n
Solve	ent naphtha (petrole	um), heavy arom.; ł	Kerosine — unspecified:
Speci		: Rabbit	
Resul		: No eye irritat	
Rema	Irks	: Based on da	ta from similar materials
Benze	enesulfonic acid, C1	0-16-alkyl derivs., o	calcium salts:
Asses	ssment	: Risk of seriou	us damage to eyes.
2-ethy	ylhexan-1-ol:		
Speci	es	: Rabbit	
Resul	t		yes, reversing within 21 days
Metho	od	: OECD Test (	Guideline 405
Respi	iratory or skin sens	itisation	
	sensitisation		
Not cl	assified due to lack o	f data.	
-	iratory sensitisation		
Not cl	assified due to lack o	f data.	
<u>Comp</u>	oonents:		
	fop-P-butyl (ISO):		
Creat	es	: Guinea pig	
Speci Resul			ise skin sensitisation.



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Solve	ent naphtha (petrole	um), heavy arom.; Ke	erosine — unspecified:
Test	Туре	: Buehler Test	
Spec	ies	: Guinea pig	
Resu	lt	: Does not caus	e skin sensitisation.
Rema	arks	: Based on data	from similar materials
Benz	enesulfonic acid, C	10-16-alkyl derivs., ca	Ilcium salts:
Test	Type	: Buehler Test	
Spec		: Guinea pig	
Resu	lt	: Not a skin sen	sitizer.
Rema	arks	: Based on data	from similar materials
Chro	nic toxicity		
Gern	n cell mutagenicity		
	lassified due to lack c	of data.	
	ponents:		
Solve	ent naphtha (petrole	um), heavy arom.; Ke	erosine — unspecified:
Geno	otoxicity in vitro	: Test Type: rev Result: negativ	erse mutation assay
			ed on data from similar materials
Geno	otoxicity in vivo		ter chromatid exchange assay
			ute: Intraperitoneal injection
		Result: negativ Remarks: Bas	ed on data from similar materials
Benz	renesulfonic acid. C	10-16-alkyl derivs., ca	licium salts:
		-	
Genc	otoxicity in vitro		erse mutation assay D Test Guideline 471
		Result: negativ	
		0	ed on data from similar materials
Geno	otoxicity in vivo	: Test Type: Mid	cronucleus test
		Species: Mous	se (male and female)
		Application Ro	ute: Intraperitoneal injection
		Exposure time	: 72 hrs
		Method: Mutag	genicity (micronucleus test)
		Remarks: Bas	ed on data from similar materials
2-eth	ylhexan-1-ol:		
Geno	otoxicity in vitro	: Test Type: rev	erse mutation assay
	·		D Test Guideline 471
Geno	otoxicity in vivo	: Test Type: Mic	cronucleus test
0010		Species: Mous	
			ute: Intraperitoneal injection
		5	



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Carci	nogenicity		
	ected of causing cance	er.	
	oonents:		
	fop-P-butyl (ISO):	NI	
ment	nogenicity - Assess-	: No evidenc	e of carcinogenicity in animal studies.
	• •	m), heavy arom.;	Kerosine — unspecified:
Speci		: Mouse	
	ation Route	: Dermal	
Resul	sure time t	: 104 weeks : negative	
Rema			ata from similar materials
Carcir ment	nogenicity - Assess-	: Limited evid	dence of carcinogenicity in animal studies
2-eth	ylhexan-1-ol:		
Speci	es	: Rat	
	ation Route	: Oral	
Expos Resul	sure time t	: 24 month(s : negative	)
Repro	oductive toxicity		
-	ected of damaging fert	ility or the unborn	child.
Com	oonents:		
fluazi	fop-P-butyl (ISO):		
Repro sessn	oductive toxicity - As- nent	: Some evide animal exp	ence of adverse effects on development, based eriments.
Solve	ent naphtha (petroleu	m), heavy arom.;	Kerosine — unspecified:
Effect	s on fertility	: Test Type:	
			at, male and female
			Route: Oral ECD Test Guideline 415
		Result: neg	
			Based on data from similar materials
Effect	s on foetal develop-	: Test Type:	reproductive and developmental toxicity study
ment		Species: R	at
			Route: Oral
			ECD Test Guideline 414
		Result: neg Remarks: F	ative Based on data from similar materials
		Nomaina. L	acca on add nom similar matchais

### Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts:



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Effec	ts on fertility	Species: Rat, r Application Ro Method: OECI	D Test Guideline 415 acts on fertility and early embryonic develop-		
2-eth	ylhexan-1-ol:				
	ts on foetal develop-	Species: Mous Application Ro	ute: Oral ) Test Guideline 414		
STO	Γ - single exposure				
	cause drowsiness or d	izziness.			
	ponents:				
Solve	ent naphtha (petroleu	ım). heavy arom.: Ke	rosine — unspecified:		
	ssment		wsiness or dizziness.		
2-eth	ylhexan-1-ol:				
	ssment	: May cause res	piratory irritation.		
	F - repeated exposure				
Repe	lassified due to lack of eated dose toxicity	data.			
Repe <u>Com</u>	eated dose toxicity ponents:	data.			
Repe <u>Com</u> fluaz	eated dose toxicity ponents: ifop-P-butyl (ISO):				
Repe <u>Com</u> fluaz Spec	eated dose toxicity ponents: ifop-P-butyl (ISO): ies	: Rat	v		
Repe <u>Com</u> fluaz Spec NOA	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL	: Rat : 1 mg/kg bw/da	у		
Repe <u>Com</u> fluaz Spec	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies	: Rat			
Repe <u>Com</u> fluaz Spec NOA Spec NOA	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/d	ay		
Repe <u>Com</u> fluaz Spec NOA Spec NOA	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL ent naphtha (petroleu	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/d m <b>), heavy arom.; Ke</b>	ay erosine — unspecified:		
Repe <u>Com</u> fluaz Spec NOA Spec NOA	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL ent naphtha (petroleu ies	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/d	ay erosine — unspecified:		
Repe Com fluaz Spec NOA Spec NOA Spec NOA Appli	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL ent naphtha (petroleu ies EL cation Route	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/d m <b>), heavy arom.; Ke</b> : Rat, male and : 750 mg/kg : Oral - gavage	ay erosine — unspecified:		
Repe Com fluaz Spec NOA Spec NOA Spec NOA Appli	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL ent naphtha (petroleu ies EL cation Route sure time	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/d m <b>), heavy arom.; Ke</b> : Rat, male and : 750 mg/kg : Oral - gavage : 90 day	ay erosine — unspecified:		
Repe Com fluaz Spec NOA Spec NOA Spec NOA Appli Expo	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL ent naphtha (petroleu ies EL cation Route sure time arks	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/d m <b>), heavy arom.; Ke</b> : Rat, male and : 750 mg/kg : Oral - gavage : 90 day	ay F <b>rosine — unspecified:</b> female from similar materials		
Repe Com fluaz Spec NOAI Spec NOAI Solve Spec NOAI Appli Expo Rema Spec NOAI	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL ent naphtha (petroleu ies EL cation Route sure time arks	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/d m <b>), heavy arom.; Ke</b> : Rat, male and : 750 mg/kg : Oral - gavage : 90 day : Based on data : Rat, male and : 1 mg/l	ay F <b>rosine — unspecified:</b> female from similar materials		
Repe Com fluaz Spec NOAI Spec NOAI Solve Spec NOAI Appli Expo Rema Spec NOAI	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL ent naphtha (petroleu ies EL cation Route sure time arks ies EL EL	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/da m), heavy arom.; Ke : Rat, male and : 750 mg/kg : Oral - gavage : 90 day : Based on data : Rat, male and : 1 mg/l : 0.5 mg/l	ay e <b>rosine — unspecified:</b> female from similar materials female		
Repe Com fluaz Spec NOAI Spec NOAI Solve Spec NOAI Appli Expo Rema Spec NOAI Appli Expo Rema	eated dose toxicity ponents: ifop-P-butyl (ISO): ies EL ies EL ent naphtha (petroleu ies EL cation Route sure time arks	: Rat : 1 mg/kg bw/da : Dog : 25 mg/kg bw/d m <b>), heavy arom.; Ke</b> : Rat, male and : 750 mg/kg : Oral - gavage : 90 day : Based on data : Rat, male and : 1 mg/l	ay e <b>rosine — unspecified:</b> female from similar materials female		



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Speci NOAE		: F : 5 : 0	Rat, male and t 500 mg/kg Dral	female
Metho Rema			DECD Test Gu Based on data	ideline 407 from similar materials
Metho Rema Speci NOAE	EL cation Route od arks es EL cation Route od	: 5 : 1 : ( : E : F : 5 : 1 : 7	Rat, male and f > 1,000 mg/kg Dermal DECD Test Gu	ideline 412 from similar materials female
Speci Applic	cation Route sure time	: 2	Rat 250 mg/kg Dral 13 weeks DECD Test Gu	ideline 408

#### Aspiration toxicity

May be fatal if swallowed and enters airways.

#### **Components:**

### Solvent naphtha (petroleum), heavy arom.; Kerosine — unspecified:

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

#### Further information

### Product:

Remarks

 Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
 Concentrations substantially above the TLV value may cause narcotic effects.
 Solvents may degrease the skin.



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CTION	12. ECOLOGICAL INFO	DRM		
Ecoto	oxicity			
Produ	uct:			
	oxicology Assessment			
Acute	e aquatic toxicity	:	Very toxic to aqua	atic life.
Chror	nic aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
<u>Com</u>	ponents:			
fluazi	ifop-P-butyl (ISO):			
Toxic	ity to fish	:	LC50 (Oncorhyno Exposure time: 90	chus mykiss (rainbow trout)): 1.3 mg/l 6 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 44	nagna (Water flea)): > 1 mg/l 8 h
Toxic plants	ity to algae/aquatic	:	EbC50 (Navicula Exposure time: 72	pelliculosa (Diatom)): 0.51 mg/l 2 h
Toxic ganis	ity to soil dwelling or- ms	:	LC50 (worms): >	1,000 mg/kg
Toxic isms	ity to terrestrial organ-	:	LD50 (Anas platy	rhynchos (Mallard duck)): > 3,500 mg/kg
			LD50 (Apis mellif End point: Acute	era (bees)): > 200 μg/bee contact toxicity
			LD50 (Apis mellif End point: Acute	era (bees)): > 200 μg/bee oral toxicity
			LC50 (Colinus vir Exposure time: 8 Remarks: Dietary	
Solve	ent naphtha (petroleum	), h	eavy arom.; Kero	sine — unspecified:
Toxic	ity to fish	•	Exposure time: 90 Method: OECD T	chus mykiss (rainbow trout)): 2 - 5 mg/l 6 h est Guideline 203 accommodated fractions (WAF)
	ity to daphnia and other tic invertebrates	:	EL50 (Daphnia m Exposure time: 44 Method: OECD T	nagna (Water flea)): 1.4 mg/l
Toxic plants	ity to algae/aquatic	:	EL50 (Pseudokiro mg/l Exposure time: 72	chneriella subcapitata (green algae)): > 1 2 h



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				Test Guideline 201 accommodated fractions (WAF)
Toxic	ity to microorganisms	:	LL50 (Tetrahymo Exposure time: 7 Test Type: Grow	
Benz	enesulfonic acid, C10-	16-a	lkyl derivs., calc	ium salts:
Toxic	sity to fish	:	Exposure time: 9	ecies): 10,000 mg/l )6 h I on data from similar materials
			Exposure time: 9	es promelas (fathead minnow)): 1,000 mg/l 96 h I on data from similar materials
	tity to daphnia and other tic invertebrates	:	Exposure time: 4	magna (Water flea)): > 1,000 mg/l l8 h l on data from similar materials
Toxic plants	sity to algae/aquatic s	:	mg/I Exposure time: 9	rchneriella subcapitata (green algae)): > 1,000 96 h 9 on data from similar materials
Toxic	to microorganisms	:		l sludge): 10,000 mg/l Fest Guideline 209
Ecot	oxicology Assessment			
Acute	e aquatic toxicity	:	Toxic to aquatic	life.
Chro	nic aquatic toxicity	:	Harmful to aquat	ic life with long lasting effects.
2-eth	ylhexan-1-ol:			
	ity to fish	:	LC50 (Leuciscus Exposure time: 9	s idus (Golden orfe)): 17.1 - 28.2 mg/l 96 h
	tity to daphnia and other tic invertebrates	:	EC50 (Daphnia Exposure time: 4	magna (Water flea)): 39 mg/l l8 h
Toxic plants	sity to algae/aquatic s	:	EC10 (Desmode Exposure time: 7	smus subspicatus (green algae)): 3.2 mg/l /2 h
			EC50 (Desmode Exposure time: 7	smus subspicatus (green algae)): 11.5 mg/l /2 h
Toxic	ity to microorganisms	:	EC50 (Anabaena Exposure time: 7	a flos-aquae (cyanobacterium)): 16.6 mg/l 72 h



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Persis	stence and degradabi	ility		
Comp	oonents:			
fluazi	fop-P-butyl (ISO):			
Biode	gradability	:	Result: Readily b	biodegradable.
Stabili	ity in water	:	Degradation half	<sup>:</sup> life (DT50): 17 d pH: 7
Solve	nt naphtha (petroleur	n), h	eavy arom.; Kerc	osine — unspecified:
Biode	gradability	:	Biodegradation: Exposure time: 2	
				I on data from similar materials
Benze	enesulfonic acid, C10	-16-a	alkyl derivs., calc	ium salts:
Biode	gradability	:	Result: Not read	ily biodegradable.
2-ethy	ylhexan-1-ol:			
Biode	gradability	:	Result: Readily b	biodegradable.
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
fluazi	fop-P-butyl (ISO):			
	on coefficient: n- ol/water	:	log Pow: 4.95	
	nt naphtha (petroleur		•	•
	on coefficient: n- ol/water	:	log Pow: 1.99 - 1 Method: QSAR	18.02
Benze	enesulfonic acid, C10	-16-a	alkvl derivs calc	ium salts:
Partiti	on coefficient: n- ol/water	:	-	
2-ethy	ylhexan-1-ol:			
	on coefficient: n- ol/water	:	log Pow: 2.9 (25	°C)
Mobil	ity in soil			
<u>Comp</u>	oonents:			
fluazi	fop-P-butyl (ISO):			
Diatrik	oution among environ-	:	Koc: 3394 ml/g,	loa Koc: 3.53





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Stabi	lity in soil	:	
Othe	r adverse effects		
Prod	uct:		
Addit matic	ional ecological infor- on	unprofession	ental hazard cannot be excluded in the event of al handling or disposal. aquatic life with long lasting effects.
SECTION	13. DISPOSAL CONS	IDERATIONS	
Disp	osal methods		
-	e from residues	courses or th Do not conta cal or used c	minate ponds, waterways or ditches with chemi-
Cont	aminated peakeging	· Empty romai	aing contents

Dispose of as unused product. Do not re-use empty containers.	Contaminated packaging	:	
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### **SECTION 14. TRANSPORT INFORMATION**

### International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUAZIFOP-P-BUTYL)
Class	:	9
Packing group	:	
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (FLUAZIFOP-P-BUTYL)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen- ger aircraft)	:	964
Environmentally hazardous	:	yes
<b>IMDG-Code</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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Labels EmS C	Code pollutant	single or combi single or inner p net quantity per liquids may be	y hazardous substances/Marine Pollutants in nation packaging containing a net quantity per backaging of 5 kg or less for solids, or having a single or inner packaging of 5 L or less for transported as non-dangerous goods as pro- provision A197 of the IATA and section

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

Not applicable for product as supplied.

### National Regulations

ADG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (FLUAZIFOP-P-BUTYL)
Class	:	9
Packing group	:	
Labels	:	9
Hazchem Code	:	•3Z
Remarks	:	Environmentally hazardous substances meeting the descrip- tions of UN 3077 or UN 3082 are not subject to the ADG Code when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg / liters, or IBCs

#### 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

Safety, health and environm ture	ent	tal regulations/legislation specific for the substance or mix-
Standard for the Uniform	:	Schedule 6

Scheduling of Medicines and Poisons

#### APVMA Code: 61355

Prohibition/Licensing Requirements

: There is no applicable prohibition, authorisation and restricted use



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				requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.		
The components of this product are reported in the following inventories:						
TCSI		:	On the inventory,	or in compliance with the inventory		
TSCA		:	Product contains	substance(s) not listed on TSCA inventory.		
AIIC		:	Not in compliance	e with the inventory		
DSL		:	This product cont on the Canadian	ains the following components that are not DSL nor NDSL.		
			fluazifop-P-butyl (	ISO)		
ENCS		:	Not in compliance	e with the inventory		
ISHL		:	Not in compliance	e with the inventory		
KECI		:	On the inventory,	or in compliance with the inventory		
PICCS	i	:	Not in compliance	e with the inventory		
IECSC	:	:	Not in compliance	e with the inventory		
NZIoC		:	Not in compliance	e with the inventory		
TECI		:	Not in compliance	e with the inventory		

#### **SECTION 16. OTHER INFORMATION**

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#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)	

ACGIH / TWA : 8-hour, time-weighted average

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; 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; 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 con-



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centration; 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; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; 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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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