



Vers 1.0	sion	Revision Date: 09.10.2023		S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023				
SEC	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION								
Product name		:	SPOTLIGHT® PLUS HERBICIDE						
Recommended use of the chen Recommended use				ical and restrictio Herbicide	ons on use				
	Restric	tions on use	:	Use as recomme	ended by the label.				
	Manufa	acturer or supplier's c	letai	ls					
	Compa	ny	:	FMC Australasia	Pty Ltd				
	Addres	S	:	Building B, Level North Ryde NSW Australia	2, 12 Julius Avenue, / 2113				
	Telepho	one	:	1 800 066 355					
	Telefax		:	(02)9923 6011					
	E-mail	address	:	SDS-Info@fmc.c	om				
	Emerge	ency telephone number	• :	For leak, fire, spi 1800 033 111 (l:	ll or accident emergencies, call: kom)				
				Medical emerger 1 800 033 111 (T	ncy: Transport and 24 h Medical information)				

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification Skin sensitisation	:	Category 1
GHS label elements Hazard pictograms	:	
Signal word	:	Warning
Hazard statements	:	H317 May cause an allergic skin reaction.
Precautionary statements	:	Prevention: P261 Avoid breathing mist or vapours. P272 Contaminated work clothing should not be allowed out of



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.10.2023	50000505	Date of first issue: 09.10.2023

the workplace. P280 Wear protective gloves.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of water. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

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)
carfentrazone-ethyl (ISO)	128639-02-1	< 10
Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1- [(trimethylsilyl)oxy]disiloxanyl]propyl] ether	134180-76-0	< 10
Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	68953-96-8	>= 1 -< 3

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Remove to fresh air. If unconscious, place in recovery position and seek medical advice. Consult a physician after significant exposure.
In case of skin contact	:	If on clothes, remove clothes. If on skin, rinse well with water. Wash off with soap and plenty of water. Get medical attention immediately if irritation develops and persists.
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.



Versi 1.0	ion	Revision Date: 09.10.2023	-	9S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023	
	If swallowed		:	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. Do not induce vomiting without medical advice.		
	Most important symptoms and effects, both acute and delayed		:	May cause an allergic skin reaction.		
	Notes to	o physician	:	Treat symptomation	cally. al attention is required in case of ingestion.	
SEC	TION 5	FIREFIGHTING MEA	SU	RES		
	Suitable	e extinguishing media	:	Dry chemical, CO	2, water spray or regular foam.	
	Unsuitable extinguishing media Specific hazards during fire- fighting Hazardous combustion prod- ucts Specific extinguishing meth- ods		:	High volume wate	er jet	
			:	Do not allow run-o courses.	off from fire fighting to enter drains or water	
			:	Thermal decompo and vapours. Nitrogen oxides (f Carbon oxides Chlorine compour Fluorine compour	nds	
			:	must not be disch Fire residues and	ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.	
	Special for firefi	protective equipment ghters	:	Wear self-contain essary.	ed breathing apparatus for firefighting if nec-	
	Hazche	m Code	:	•3Z		

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	 Use personal protective equipment. If it can be safely done, stop the leak. Keep people away from and upwind of spill/leak. Remove all sources of ignition. Immediately evacuate personnel to safe areas. Ensure adequate ventilation. Never return spills in original containers for re-use. Mark the contaminated area with signs and prevent access to unauthorized personnel. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental precautions	Prevent product from entering drains.





Versi 1.0	ion	Revision Date: 09.10.2023		9S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023	
					akage or spillage if safe to do so. taminates rivers and lakes or drains inform ties.	
	Methods and materials for containment and cleaning up		:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.		
SEC	TION 7	. HANDLING AND ST	OR	AGE		
		on protection against l explosion	:	Normal measures	for preventive fire protection.	
	Advice	on safe handling	:	Avoid contact with For personal prote Smoking, eating a plication area. Dispose of rinse v regulations. Persons susceptil allergies, chronic	obtain special instructions before use.	
I	Hygiene measures		:	When using do no When using do no Wash hands befo		
	Conditio	ons for safe storage	:	place. Containers which kept upright to pre	ons / working materials must comply with	
		information on stor- nditions	:	storage. Store in closed, la be constructed of ed and with imper ised persons or cl storage of chemic	ble under normal conditions of warehouse belled containers. The storage room should incombustible material, closed, dry, ventilat- meable floor, without access of unauthor- hildren. The room should only be used for als. Food, drink, feed and seed should not d wash station should be available.	
I	Materia	ls to avoid	:	Do not store near	acids.	
	Further age sta	information on stor- bility	:	No decomposition	if stored and applied as directed.	



Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	09.10.2023	50000505	Date of first issue: 09.10.2023

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components		CAS-No.	Value type	Control parame-	Basis		
			(Form of	ters / Permissible			
			exposure)	concentration			
carfentrazone-ethyl (ISO)		128639-02-1	TWA (Inhal-	1 mg/m3	ACGIH		
			able particu-				
			late matter)				
Personal protective equipme	ent						
Respiratory protection	:		sol exposure wear su nd protective suit.	itable per-			
Hand protection							
Material	:	Wear chemica	al resistant glove	es. such as barrier lar	ninate.		
		Wear chemical resistant gloves, such as barrier laminate, butyl rubber or nitrile rubber.					
Remarks	•	The suitability for a specific workplace should be discussed					
	•						
Eye protection :		Eye wash bottle with pure water					
		Tightly fitting s	safety goggles				
Skin and body protection	:	Impervious clothing					
		Choose body protection according to the amount and con- centration of the dangerous substance at the work place.					
		centration of t	ne dangerous st	ubstance at the WORK	place.		
Protective measures	:	Plan first aid a	action before bed	ginning work with this	product.		
		Always have o		id kit, together with p			
		structions.	n roto oti vo o muin				
		Wear suitable protective equipment. When using do not eat, drink or smoke.					
		In the context	of professional	plant protection use a	as recom-		
				efer to the label and the			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES						
Physical state	: liquid					
Colour	: yellow-orange					
Odour	: odourless					
Odour Threshold	: not determined					
рН	: 4.86					



SPOTLIGHT® PLUS HERBICIDE

Vers 1.0	ion	Revision Date: 09.10.2023		S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023		
				In a 1% aqueous	dispersion		
	Melting	point/freezing point	:	not determined			
	Boiling	point/boiling range	:	not determined			
	Flash p	pint	:	111 °C			
	Flamma	ability (liquids)	:	ignitable			
	Self-ign	ition	:	356 °C			
		explosion limit / Upper bility limit	:	not determined			
		explosion limit / Lower bility limit	:	not determined			
	Vapour pressure Relative vapour density Relative density		:	: Not available for this mixture.			
			:	not determined			
			:	0.9308 (20 °C)			
	Solubilit Wate	y(ies) er solubility	:	dispersible			
	Partitior octanol/	n coefficient: n- /water	:	Not available for	this mixture.		
	Decomp	position temperature	:	not determined			
	Viscosit Visc	y osity, dynamic	:	not determined			
	Visc	osity, kinematic	:	23.44 mm2/s (40	(° °)		
	Explosiv	ve properties	:	Not explosive			
	Oxidizin	g properties	:	Non-oxidizing			
	Surface	tension	:	30 mN/m, 25 °C			
				29 mN/m, 40 °C			
	Particle	size	:	Not applicable			

SECTION 10. STABILITY AND REACTIVITY

Reactivity

: No decomposition if stored and applied as directed.



Version 1.0	Revision Date: 09.10.2023		S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023
Ch	emical stability	:	No decomposition	on if stored and applied as directed.
Po: tior	ssibility of hazardous reac- s	• :	No decompositio	on if stored and applied as directed.
Co	nditions to avoid	:	Heat, flames and	d sparks.
Inc	ompatible materials	:	Avoid strong aci	ds, bases, and oxidizers
	zardous decomposition ducts	:	Stable under rec	commended storage conditions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity		
Not classified based on avail Based on available data, the		information. sification criteria are not met.
Product:		
Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): > 5.11 mg/l Exposure time: 4 h Test atmosphere: dust/mist
Acute dermal toxicity	:	LD50 (Rat): > 2,000 mg/kg
Components:		
carfentrazone-ethyl (ISO):		
Acute oral toxicity	:	LD50 (Rat, female): 5,143 mg/kg Method: FIFRA 81.01 Symptoms: Tremors GLP: yes
Acute inhalation toxicity	:	LC50 (Rat, male and female): > 5.09 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: EPA OPP 81 - 3 Symptoms: Tremors, chromodacryorrhea, nasal discharge GLP: yes Assessment: The substance or mixture has no acute inhala- tion toxicity Remarks: no mortality
Acute dermal toxicity	:	LD50 (Rat, male and female): > 4,000 mg/kg Method: US EPA Test Guideline OPP 81-2 Assessment: The component/mixture is minimally toxic after single contact with skin. Remarks: no mortality

Oxirane, methyl-, polymer with oxirane, mono[3-[1,3,3,3-tetramethyl-1-[(trimethylsilyl)oxy]disiloxanyl]propyl] ether:



sion	Revision Date: 09.10.2023		9S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023
Acute	oral toxicity	:	LD50 (Rat): 3,	200 mg/kg
Acute	inhalation toxicity	:	LC50 (Rat): 1. Exposure time Test atmosphe Method: OECI	: 4 h
Acute	dermal toxicity	:	LD50 (Rabbit):	: 1,550 mg/kg
			LD50 (Rat): > 2	2,000 mg/kg
Benze	enesulfonic acid, mo	no-C′	11-13-branched	d alkyl derivs., calcium salts:
Acute	oral toxicity	:		e and female): > 2,000 mg/kg D Test Guideline 401 nortality
Acute	dermal toxicity	:		le and female): > 1,000 - 1,600 mg/kg D Test Guideline 402
Skin c	orrosion/irritation			
	assified based on avai on available data, the			a are not met.
<u>Produ</u>				
Specie Result		:	Rabbit No skin irritatio	on
Result		:		on
Result	onents:			on
Result <u>Comp</u> carfen	<u>onents:</u> trazone-ethyl (ISO):	:	No skin irritatio	n
Result Comp carfen Specie	onents: itrazone-ethyl (ISO): es	:	No skin irritatio	
Result Comp carfen Specie Assess	<u>onents:</u> h trazone-ethyl (ISO): es sment	:	No skin irritatio Rabbit Not classified a	as irritant
Result Comp carfen Specie	<u>onents:</u> h trazone-ethyl (ISO): es sment d		No skin irritatio Rabbit Not classified a	as irritant Guideline OPP 81-5
Result <u>Comp</u> carfen Specie Assess Methor Result Oxirar	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer		No skin irritatio Rabbit Not classified a US EPA Test (No skin irritatio oxirane, mono	as irritant Guideline OPP 81-5
Result <u>Comp</u> carfen Specie Assess Methor Result Oxirar	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox		No skin irritatio Rabbit Not classified a US EPA Test (No skin irritatio oxirane, mono	as irritant Guideline OPP 81-5 on
Result Comp carfen Specie Assess Methoo Result Oxirar [(trime Result	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox	anyl] :	No skin irritatio Rabbit Not classified a US EPA Test o No skin irritatio oxirane, mono propyl] ether: slight irritation	as irritant Guideline OPP 81-5 on [3-[1,3,3,3-tetramethyl-1-
Result Comp carfen Specie Assess Metho Result Oxirar [(trime Result Benze	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox	anyl] :	No skin irritatio Rabbit Not classified a US EPA Test (No skin irritatio oxirane, mono propyl] ether: slight irritation	as irritant Guideline OPP 81-5 on
Result Comp carfen Specie Assess Methoo Result Oxirar [(trime Result	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox	anyl] :	No skin irritatio Rabbit Not classified a US EPA Test (No skin irritatio oxirane, mono propyl] ether: slight irritation I1-13-branched Rabbit	as irritant Guideline OPP 81-5 on [3-[1,3,3,3-tetramethyl-1-
Result <u>Comp</u> carfen Specie Assess Method Result Oxirar [(trime Result Benze Specie Result	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox enesulfonic acid, mol es	anyl] : no-C [^]	No skin irritation Rabbit Not classified a US EPA Test of No skin irritation oxirane, mono propyl] ether: slight irritation I1-13-brancheo Rabbit Skin irritation	as irritant Guideline OPP 81-5 on [3-[1,3,3,3-tetramethyl-1-
Result Comp Carfen Specie Assess Metho Result Oxirar [(trime Result Benze Specie Result Seriou Not cla	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox enesulfonic acid, moles	anyl] no-C [•] : : : : : :	No skin irritation Rabbit Not classified a US EPA Test (No skin irritation oxirane, mono propyl] ether: slight irritation I1-13-branched Rabbit Skin irritation on information.	as irritant Guideline OPP 81-5 on [3-[1,3,3,3-tetramethyl-1-
Result Comp Carfen Specie Assess Metho Result Oxirar [(trime Result Benze Specie Result Seriou Not cla	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox enesulfonic acid, more s us eye damage/eye ir assified based on avai on available data, the	anyl] no-C [•] : : : : : :	No skin irritation Rabbit Not classified a US EPA Test (No skin irritation oxirane, mono propyl] ether: slight irritation I1-13-branched Rabbit Skin irritation on information.	as irritant Guideline OPP 81-5 on [3-[1,3,3,3-tetramethyl-1-
Result Comp carfen Specie Assess Methor Result Oxirar [(trime Result Benze Result Specie Result	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox enesulfonic acid, mod es us eye damage/eye ir assified based on avai on available data, the	anyl] no-C [•] : : : : : :	No skin irritation Rabbit Not classified a US EPA Test (No skin irritation oxirane, mono propyl] ether: slight irritation I1-13-branched Rabbit Skin irritation on information.	as irritant Guideline OPP 81-5 on [3-[1,3,3,3-tetramethyl-1-
Result Comp Carfen Specie Assess Method Result Oxirar [(trime Result Benze Specie Result Seriou Not cla Based Produ	onents: htrazone-ethyl (ISO): es sment d ne, methyl-, polymer ethylsilyl)oxy]disilox enesulfonic acid, mod es us eye damage/eye in assified based on avai on available data, the ct: es sment	anyl] no-C [•] : : : : : :	Rabbit Not classified a US EPA Test o No skin irritation oxirane, mono propyl] ether: slight irritation I1-13-branched Rabbit Skin irritation on information. sification criteria Rabbit No eye irritatio	as irritant Guideline OPP 81-5 on [3-[1,3,3,3-tetramethyl-1- d alkyl derivs., calcium salts:



rsion)	Revision Date: 09.10.2023	SDS Number: 50000505	Date of last issue: - Date of first issue: 09.10.2023
		tion.	
<u>Com</u>	oonents:		
carfe	ntrazone-ethyl (ISO)	:	
Speci	es	: Rabbit	
Resul		: slight irritation	
Asses	ssment	: Not classified a : EPA OPP 81-4	
GLP	Ju	: yes	ł
	ne, methyl-, polyme ethylsilyl)oxy]disilo	-	[3-[1,3,3,3-tetramethyl-1-
Speci		: Rabbit	
Resul		: Moderate eye	irritation
Bonz	onosulfonio ocidi m	ana C11-12 branchas	l alkyl derivs., calcium salts:
Speci		: Rabbit	anyi derivs., calcium saits.
Resul			ects on the eye
Resp	iratory or skin sensi	tisation	
-	sensitisation		
_	cause an allergic skin	reaction.	
Skin	sensitisation		
May c	ause an allergic skin	reaction.	
Resp	iratory sensitisation		
-	•		
Not cl	lassified based on ava		
	lassified based on ava		
Resp	iratory sensitisation		
Resp Not cl	iratory sensitisation lassified due to lack o		
Resp Not cl <u>Produ</u>	iratory sensitisation lassified due to lack o uct:	f data.	
Resp Not cl	iratory sensitisation lassified due to lack o <u>uct:</u> es	f data. : Guinea pig	nsitisation by skin contact.
Resp Not cl <u>Produ</u> Speci Resul	iratory sensitisation lassified due to lack o <u>uct:</u> es	f data. : Guinea pig	nsitisation by skin contact.
Resp Not cl Produ Speci Resul	iratory sensitisation lassified due to lack o <u>uct:</u> les lt	f data. : Guinea pig : May cause ser	nsitisation by skin contact.
Resp Not cl Produ Speci Resul	iratory sensitisation lassified due to lack o uct: les lt <u>ponents:</u> ntrazone-ethyl (ISO)	f data. : Guinea pig : May cause ser	nsitisation by skin contact. ode assay (LLNA)
Resp Not cl Produ Speci Resul Comp Carfe Test	iratory sensitisation lassified due to lack o uct: les lt ponents: ntrazone-ethyl (ISO) Type les	f data. : Guinea pig : May cause ser : : : Local lymph no : Guinea pig	ode assay (LLNA)
Resp Not cl Produ Speci Resul Comp Carfe Test Speci Metho	iratory sensitisation lassified due to lack o <u>uct:</u> les lt ponents: ntrazone-ethyl (ISO) Type les od	f data. : Guinea pig : May cause ser : : : Local lymph no : Guinea pig : US EPA Test (ode assay (LLNA) Guideline OPP 81-6
Resp Not cl Produ Speci Resul Comp Carfe Test Speci Metho Resul	iratory sensitisation lassified due to lack o <u>uct:</u> les lt ponents: ntrazone-ethyl (ISO) Type les od lt	f data. : Guinea pig : May cause ser : : Local lymph no : Guinea pig : US EPA Test (: Does not caus	ode assay (LLNA) Guideline OPP 81-6 e skin sensitisation.
Resp Not cl Produ Speci Resul Comp Carfe Test Speci Metho Resul	iratory sensitisation lassified due to lack o <u>uct:</u> les lt ponents: ntrazone-ethyl (ISO) Type les od lt	f data. : Guinea pig : May cause ser : : Local lymph no : Guinea pig : US EPA Test (: Does not caus r with oxirane, mono	ode assay (LLNA) Guideline OPP 81-6
Resp Not cl Produ Speci Resul Comp Carfe Test Speci Metho Resul	iratory sensitisation lassified due to lack o <u>uct:</u> les lt ponents: ntrazone-ethyl (ISO) Type les od lt me, methyl-, polyme tethylsilyl)oxy]disilo les	f data. : Guinea pig : May cause ser : : Local lymph no : Guinea pig : US EPA Test (: Does not caus r with oxirane, mono	ode assay (LLNA) Guideline OPP 81-6 e skin sensitisation. [3-[1,3,3,3-tetramethyl-1-



sion	Revision Date: 09.10.2023	SDS Number: 50000505	Date of last issue: - Date of first issue: 09.10.2023
Benze	enesulfonic acid. mo	ono-C11-13-branch	ed alkyl derivs., calcium salts:
Test T Specie Metho Result	Type es od	: Maximisation : Guinea pig : OECD Test	-
Chror	nic toxicity		
Germ	cell mutagenicity		
Not cla	assified based on ava d on available data, th		ria are not met.
<u>Produ</u>	<u>ict:</u>		
	cell mutagenicity - sment	: Weight of ev cell mutager	ridence does not support classification as a germ n.
<u>Comp</u>	oonents:		
carfer	ntrazone-ethyl (ISO):		
Genot	toxicity in vitro	Metabolic ac	everse mutation assay ctivation: with and without metabolic activation CD Test Guideline 471 ative
		Test system Metabolic ac	Chromosome aberration test in vitro : Chinese hamster ovary cells ctivation: with and without metabolic activation CD Test Guideline 476 ative
Genot	toxicity in vivo		<i>A</i> icronucleus test ouse (male and female) ative
	cell mutagenicity - sment	: No genotoxi	c potential
	ne, methyl-, polyme ethylsilyl)oxy]disilo		no[3-[1,3,3,3-tetramethyl-1- ':
	toxicity in vitro	: Test Type: C Test system	Chromosome aberration test in vitro : Chinese hamster ovary cells CD Test Guideline 473
Genot	toxicity in vivo	Species: Mo Cell type: Bo	one marrow Route: Intraperitoneal injection
Benze	enesulfonic acid, mo	ono-C11-13-branch	ed alkyl derivs., calcium salts:
	toxicity in vitro		



ersion 0	Revision Date: 09.10.2023	SDS N 50000	lumber: 505	Date of last issue: - Date of first issue: 09.10.2023
			sult: negativ marks: Bas	ve ed on data from similar materials
		Me tati		rerse mutation assay genicity (Salmonella typhimurium - reverse mu ve
Geno	toxicity in vivo	Sp Ap Re	ecies: Mous plication Ro sult: negativ	
	cell mutagenicity - ssment		eight of evid I mutagen.	ence does not support classification as a germ
Not cl	nogenicity assified based on ava d on available data, the <u>uct:</u>			a are not met.
	nogenicity - Assess-		eight of evid ogen	ence does not support classification as a car-
<u>Com</u>	oonents:			
	ntrazone-ethyl (ISO):			
Speci	es cation Route	: Ra : Ora	t, male and	female
	sure time		4 weeks	
NÓAE	EL	: 3-	9 mg/kg bv	v/day
Resul	t	: ne	gative	
Carcir ment	nogenicity - Assess-	: An	imal testing	did not show any carcinogenic effects.
-	oductive toxicity			
Not cl	assified based on ava assified due to lack of		rmation.	
Produ				
sessn	oductive toxicity - As- nent		ctive toxicity	ence does not support classification for repro-
<u>Comp</u>	oonents:			
	ntrazone-ethyl (ISO):			
Effect	s on fertility	Sp Ap Fe	ecies: Rat, plication Ro	Ilti-generation study male and female oute: Ingestion .: 4,000 ppm ve



/ersion .0	Revision Date: 09.10.2023		05 Number: 000505	Date of last issue: - Date of first issue: 09.10.2023
	Effects on foetal develop- ment		Species: Rat, fe Application Rou General Toxicit	ıte: Oral y Maternal: NOEL: 100 mg/kg bw/day oxicity: NOEL: 600 mg/kg bw/day
			Species: Rabbi Application Rou General Toxicit	ıte: Oral y Maternal: NOEL: 150 mg/kg bw/day oxicity: NOEL: > 300 mg/kg bw/day
Repro sessr	oductive toxicity - As- nent	:	Animal testing	showed no reproductive toxicity.
Benz	enesulfonic acid, mor	no-C	11-13-branched	alkyl derivs., calcium salts:
	ts on fertility	:	Test Type: Thre Species: Rat, n Application Rou Dose: 14, 70, 3 General Toxicit General Toxicit General Toxicit Result: negative	ee-generation study nale and female ite: Oral 50 mg/kg bw d y - Parent: NOAEL: 350 mg/kg body weight y F1: NOAEL: 350 mg/kg bw/day y F2: NOAEL: 350 mg/kg bw/day
Effec ment	ts on foetal develop-	:	Species: Rat Application Rou Dose: 0.2, 2.0, Duration of Sin General Toxicit Teratogenicity: Result: negative	300 and 600 mg/kg gle Treatment: 20 d y Maternal: LOAEL: 600 mg/kg body weight LOAEL: 600 mg/kg bw/day
Repro sessr	oductive toxicity - As- nent	:	Weight of evide ductive toxicity	nce does not support classification for repro-
	Γ - single exposure			
	lassified based on avail d on available data, the			are not met.
Prod	uct:			

Assessment	:	The substance or mixture is not classified as specific target
		organ toxicant, single exposure.



/ersion .0	Revision Date: 09.10.2023	SDS Number: 50000505	Date of last issue: - Date of first issue: 09.10.2023
Com	ponents:		
carfe	ntrazone-ethyl (ISO)		
Rema			adverse effects were reported
	-	5 3	
Benz	enesulfonic acid, mo	ono-C11-13-branched	l alkyl derivs., calcium salts:
Asses	ssment		or mixture is not classified as specific target single exposure.
STOT	F - repeated exposure	e	
	lassified based on ava d on available data, th	ailable information. e classification criteria	are not met.
Prod	uct:		
Asses	ssment		or mixture is not classified as specific target repeated exposure.
<u>Com</u>	ponents:		
carfe	ntrazone-ethyl (ISO)	:	
Asses	ssment		or mixture is not classified as specific target repeated exposure.
		6	repeated expection
Repe	ated dose toxicity	C .	
-	eated dose toxicity		
Com	ponents:		
<u>Com</u>	ponents: ntrazone-ethyl (ISO)		
<u>Com</u> carfe Speci NOAE	ponents: ntrazone-ethyl (ISO) ies EL	: : Mouse, male a : 1000 ppm	
Comj carfe Speci NOAI LOAE	ponents: ntrazone-ethyl (ISO) ies EL EL	: : Mouse, male a : 1000 ppm : 4000 ppm	
Com carfe Speci NOAE LOAE Applie	ponents: ntrazone-ethyl (ISO) ies EL	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral	
<u>Com</u> carfe Speci NOAE LOAE Applic Expos	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route	: : Mouse, male a : 1000 ppm : 4000 ppm	
Comj carfe Speci NOAE LOAE Applic Expos Targe	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs	: Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood	nd female
Com carfe Speci NOAE LOAE Applic Expos Targe Speci NOEL	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs	: Mouse, male a 1000 ppm 4000 ppm Oral 90 days Blood Dog, male and 150 mg/kg	nd female
Com carfe Speci NOAE LOAE Applic Expos Targe Speci NOEL LOAE	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood : Dog, male and : 150 mg/kg : 500 mg/kg	nd female
Comj carfe Speci NOAE LOAE Applid Expos Targe Speci NOEL LOAE Applid	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies EL cation Route	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood : Dog, male and : 150 mg/kg : 500 mg/kg : Oral	nd female
Com carfe Speci NOAE LOAE Applic Expos Targe Speci NOEL LOAE Applic Expos	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood : Dog, male and : 150 mg/kg : 500 mg/kg	nd female
Com carfe Speci NOAE LOAE Applic Expos Targe Speci NOEL LOAE Applic Expos	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies EL cation Route sure time et Organs	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood : Dog, male and : 150 mg/kg : 500 mg/kg : Oral : 90 days	nd female female
Comj carfe Speci NOAE LOAE Applic Expos Targe Speci NOEL LOAE Applic Expos Targe Speci NOEL	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies EL cation Route sure time et Organs	: Mouse, male a 1000 ppm 4000 ppm Oral 90 days Blood Dog, male and 150 mg/kg 500 mg/kg Oral 90 days Blood Dog, male and 50 mg/kg	nd female female
Comj carfe Speci NOAE LOAE Applid Expos Targe Speci NOEL LOAE Applid Expos Targe Speci NOEL NOEL	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies EL cation Route sure time et Organs	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood : Dog, male and : 150 mg/kg : Oral : 90 days : Blood : Dog, male and : 50 mg/kg : 150 mg/kg : 150 mg/kg	nd female female
Comj carfe Speci NOAE LOAE Applid Expos Targe Speci NOEL LOAE Applid Expos Targe Speci NOEL NOAE	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies EL cation Route sure time et Organs ies	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood : Dog, male and : 150 mg/kg : Oral : 90 days : Blood : Dog, male and : 500 mg/kg : 150 mg/kg : 150 mg/kg : 500 mg/kg : 500 mg/kg : 500 mg/kg : 500 mg/kg : 500 mg/kg	nd female female
Comj carfe Speci NOAE LOAE Applid Expos Targe Speci NOEL LOAE Applid Expos Targe Speci NOEL NOAE LOAE Applid Expos	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies EL cation Route sure time et Organs	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood : Dog, male and : 150 mg/kg : Oral : 90 days : Blood : Dog, male and : 50 mg/kg : 150 mg/kg : 150 mg/kg	nd female female
Comj carfe Speci NOAE LOAE Applid Expos Targe Speci NOEL LOAE Applid Expos Targe Speci NOEL NOAE NOAE LOAE Applid Expos GLP	ponents: ntrazone-ethyl (ISO) ies EL EL cation Route sure time et Organs ies EL cation Route sure time et Organs ies EL EL cation Route sure time et Organs	: : Mouse, male a : 1000 ppm : 4000 ppm : Oral : 90 days : Blood : Dog, male and : 150 mg/kg : Oral : 90 days : Blood : Dog, male and : 500 mg/kg : 150 mg/kg : 150 mg/kg : 0ral	nd female female





Version 1.0	Revision Date: 09.10.2023	SDS Number: 50000505	Date of last issue: - Date of first issue: 09.10.2023
[(trim Speci NOAE Applic	ethylsilyl)oxy]disilo es EL cation Route sure time		[3-[1,3,3,3-tetramethyl-1- ideline 407
Speci NOAE LOAE Applic Expos Dose	es EL EL cation Route sure time	: Rat, male and t : 40 mg/kg bw/d : 115 mg/kg bw/d : Oral - feed : 6 months : 40, 115, 340, 1	ay day 030 mg/kg bw d
Not c Not c <u>Prod</u>	ration toxicity lassified based on ava lassified due to lack o u <u>ct:</u>	ailable information. f data.	from similar materials with aspiration hazard potential.
carfe The s	oonents: ntrazone-ethyl (ISO) substance does not ha ological effects		ed with aspiration hazard potential.
<u>Com</u> carfe	oonents: ntrazone-ethyl (ISO) eurotoxicity observed		
Furth <u>Produ</u> Rema		: No data availat	ble
	12. ECOLOGICAL IN	IFORMATION	

Product:

Toxicity to algae/aquatic : ErC50 (algae): 0.45 mg/l plants

NOEC (algae): 0.1 mg/l



ersion .0	Revision Date: 09.10.2023	-	9S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023	
Ecoto	oxicology Assessment				
Acute	e aquatic toxicity	:	Very toxic to aqua	atic life.	
Chror	Chronic aquatic toxicity		Very toxic to aquatic life with long lasting effects.		
<u>Com</u>	ponents:				
carfe	ntrazone-ethyl (ISO):				
Toxic	ity to fish	:	Exposure time: 96 Test Type: semi-s		
	ity to daphnia and other tic invertebrates	:	End point: Immob Exposure time: 48 Method: OECD T		
Toxic plants	ity to algae/aquatic S	:	EC50 (Anabaena Exposure time: 72	flos-aquae (cyanobacterium)): 0.012 mg/ 2 h	
			NOEC (algae): 0. Exposure time: 96		
			EC50 (Lemna gib Exposure time: 14	ba (gibbous duckweed)): 0.0057 mg/l 4 d	
			EC50 (Selenastru mg/l Exposure time: 72 Method: OECD T GLP: yes		
			NOEC (Selenastr mg/l End point: Growth Exposure time: 72 Method: OECD T GLP: yes	2 h	
Toxic icity)	ity to fish (Chronic tox-	:	Exposure time: 89 Test Type: Early		
	ity to daphnia and other tic invertebrates (Chron- icity)	:	End point: reprod Exposure time: 2 Method: US EPA		



ersion .0	Revision Date: 09.10.2023		9S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023
Toxic	ity to microorganisms	:	Test Type: Re	ted sludge): 1,000 mg/l spiration inhibition D Test Guideline 209
Toxic ganis	ity to soil dwelling or- ms	:	NOEC (Eiseni	a fetida (earthworms)): 820 mg/kg
				D Test Guideline 216 significant adverse effect on nitrogen mineraliz
				D Test Guideline 217 significant adverse effect on carbon mineraliza
Toxic isms	ity to terrestrial organ-	:		atyrhynchos (Mallard duck)): > 5,620 ppm ute oral toxicity ary
				virginianus (Bobwhite quail)): 2,250 mg/kg ite oral toxicity
				s virginianus (Bobwhite quail)): 1000 ppm production Test
				ellifera (bees)): > 200 μg/bee ite oral toxicity
				ellifera (bees)): > 200 μg/bee ute contact toxicity
	nne, methyl-, polymer w nethylsilyl)oxy]disiloxar			[3-[1,3,3,3-tetramethyl-1-
	ity to fish	:		ynchus mykiss (rainbow trout)): 2.1 mg/l :: 96 h
	ity to daphnia and other tic invertebrates	:	EC50 (Daphni Exposure time	a magna (Water flea)): 1.1 mg/l :: 48 h
Toxic plants	ity to algae/aquatic	:	EC50 (Scened Exposure time	lesmus subspicatus): 28.2 mg/l :: 72 h
			EC50 (Scened Exposure time	desmus subspicatus): 152.2 mg/l :: 72 h
Benz	enesulfonic acid, mono	o-C [,]	11-13-branche	d alkyl derivs., calcium salts:
	ity to fish	:	LC50 (Danio r Exposure time	erio (zebra fish)): 31.6 mg/l :: 96 h
TOXIC			Method: OEC	D Test Guideline 203



ersion 0	Revision Date: 09.10.2023		9S Number: 000505	Date of last issue: - Date of first issue: 09.10.2023
Toxici plants	ty to algae/aquatic	:	Exposure time: 9	rchneriella subcapitata (green algae)): 29 mg/l l6 h on data from similar materials
			mg/I Exposure time: 9	irchneriella subcapitata (green algae)): 0.5 16 h on data from similar materials
Toxici icity)	city to fish (Chronic tox-		NOEC (Oncorhynchus mykiss (rainbow trout)): 0.23 mg/ Exposure time: 72 d Test Type: flow-through test Remarks: Based on data from similar materials	
	ty to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2 Test Type: flow-t	
Toxici	ty to microorganisms	:	Exposure time: 3	sludge): 550 mg/l h Fest Guideline 209
Toxicity to soil dwelling or- ganisms		:	Exposure time: 1 Method: OECD	etida (earthworms)): 250 mg/kg 4 d Fest Guideline 207 on data from similar materials
			Exposure time: 1 Method: OECD	tida (earthworms)): > 1,000 mg/kg 4 d Fest Guideline 207 on data from similar materials
Plant	Plant toxicity		EC50: 167 mg/kg Exposure time: 2 Species: Sorghu	
			80 mg/kg Exposure time: 1 Species: Avena s	
Toxici isms	Toxicity to terrestrial organ- isms		Exposure time: 2	ation given is based on data obtained from
Persi	stence and degradabili	ty		
<u>Produ</u>	uct:			
Biode	gradability	:	Remarks: Estima dient. Product contains	ly biodegradable. ation based on data obtained on active ingre- minor amounts of not readily biodegradable ich may not be degradable in waste water





ersion)	Revision Date: 09.10.2023		OS Number: 000505	Date of last issue: - Date of first issue: 09.10.2023
			treatment plants.	
<u>Com</u>	ponents:			
carfe	ntrazone-ethyl (ISO):			
	egradability	:	Result: Not readil	ly biodegradable.
Benz	enesulfonic acid, mon	o-C	11-13-branched a	Ikyl derivs., calcium salts:
Biode	gradability	:	Result: Not readil Biodegradation: Exposure time: 2	2.9 % 8 d est Guideline 301E / biodegradable. > 35 - 45 %
Bioad	ccumulative potential			
Prod	uct:			
	cumulation	:		not bioaccumulate. I on data obtained on active ingredient.
<u>Com</u>	ponents:			
carfe	ntrazone-ethyl (ISO):			
Bioac	cumulation	:	Bioconcentration Exposure time: 20 Method: OECD T	ynchus mykiss (rainbow trout) factor (BCF): 176 8 d ēst Guideline 305E umulation is unlikely.
	ion coefficient: n- ol/water	:	log Pow: 3.7 (20	°C)
Benz	enesulfonic acid, mon	o-C	11-13-branched a	Ikyl derivs., calcium salts:
Bioac	cumulation	:	Bioconcentration Method: QSAR	factor (BCF): 3.16
	ion coefficient: n- ol/water	:	log Pow: 4.595 (2	20 °C)
Mobi	lity in soil			
	uct: bution among environ- al compartments	:	mobile in soil.	normal conditions the substance/mixture is I on data obtained on active ingredient.





ersion)	Revision Date: 09.10.2023	SDS Number: 50000505	Date of last issue: - Date of first issue: 09.10.2023
<u>Comp</u>	oonents:		
carfer	ntrazone-ethyl (ISO):		
Distribution among environ- mental compartments		: Remarks: M	lobile in soils
Other	adverse effects		
<u>Produ</u>	<u>ict:</u>		
Additional ecological infor- mation		unprofessio	nental hazard cannot be excluded in the event of nal handling or disposal. aquatic 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 chemi- cal or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Do not re-use empty containers. Packaging that is not properly emptied must be disposed of as the unused product. Empty containers should be taken to an approved waste han- dling site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Carfentrazone-ethyl)
Class	:	9
Packing group	:	
Labels	:	9
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Carfentrazone-ethyl)
Class	:	9
Packing group	:	III
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	964
Packing instruction (passen-	:	964



Version 1.0	Revision Date: 09.10.2023		S Number:)00505	Date of last issue: - Date of first issue: 09.10.2023
	rcraft) onmentally hazardous -Code	:	yes	
UN nu		:	UN 3082 ENVIRONMENTA N.O.S. (Carfentrazone-et	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Class Packing group Labels EmS Code Marine pollutant Remarks			9 III 9 F-A, S-F yes Environmentally h single or combina single or inner pa net quantity per s liquids may be tra	nazardous substances/Marine Pollutants in ition packaging containing a net quantity per ckaging of 5 kg or less for solids, or having a ingle or inner packaging of 5 L or less for insported as non-dangerous goods as pro- rovision 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. (Carfentrazone-ethyl)
Class	:	9
Packing group	:	III
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 environmental regulations/legislation specific for the substance or mixture

Standard for the Uniform : No poison schedule number allocated Scheduling of Medicines and Poisons



Version 1.0	Revision Date: 09.10.2023	SDS Number: 50000505		Date of last issue: - Date of first issue: 09.10.2023		
APVN	IA Code: 61716					
Prohil	bition/Licensing Requ	liremen	ts	: There is no applicable prohibition, authorisation and restricted use requirements, including for carcino- gens referred to in Schedule 10 of the model WHS Act and Regula- tions.		
	components of this	produc	-	n the following inventories:		
TCSI		:		nce with the inventory		
	TSCA		Product contains substance(s) not listed on TSCA inventor			
AIIC	AIIC		Not in compliance with the inventory			
DSL	DSL			ntains the following components that are not n DSL nor NDSL.		
			(DIFLUOROME	CHLORO-3-{2-CHLORO-5-[4- ETHYL)-4,5-DIHYDRO-3-METHYL-5-OXO-1H- -1-YL]-4-FLUOROPHENYL}PROPIONATE		
			Oxirane, methy	carbons, C9; Alkylbenzenes; C9-aromatics I-, polymer with oxirane, mono[3-[1,3,3,3- trimethylsilyl)oxy]disiloxanyl]propyl] ether		
ENCS	6	:	Not in compliar	ace with the inventory		
ISHL		:	Not in compliance with the inventory			
KECI		:	Not in compliar	nce with the inventory		
PICC	S	:	: Not in compliance with the inventory			
IECS	С	:	Not in compliar	t in compliance with the inventory		
NZIo	C	:	Not in compliar	Not in compliance with the inventory		
TECI	TECI : N			Not in compliance with the inventory		

SECTION 16. OTHER INFORMATION

Revision Date	:	09.10.2023
Date format	:	dd.mm.yyyy



Version 1.0	Revision Date: 09.10.2023	SDS Number: 50000505	Date of last issue: - Date of first issue: 09.10.2023
Full	text of other abbrevia	ations	
ACG	IH	: USA. ACGIH	Threshold Limit Values (TLV)
ACG	IH / TWA	: 8-hour, time-w	eighted average
Land Carc Stan x% r ENC x% g tem; - Inte Equip centr cal S Marit ganis centr Letha n.o.s Cond Load Zeala ment lative es; 0 1907 tion, perat stanc	of Brazil; ASTM - An inogen, Mutagen or I dardisation; DSL - Dor esponse; ELx - Loadi S - Existing and New rowth rate response; I GLP - Good Laborator ernational Air Transpo- ternational Air Transpo- ternational Air Transpo- ternation; ICAO - Internati Substances in China; I substances in China; I ime Organization; ISH sation for Standardization to 50 % of a test ation to 50 % of a test ation of Dangerous Goo tes Control Act (United	herican Society for the Reproductive Toxican mestic Substances Lis ing rate associated w Chemical Substances ERG - Emergency Re ry Practice; IARC - Int ort Association; IBC ng Dangerous Chemic ional Civil Aviation Org IMDG - International IL - Industrial Safety at tion; KECI - Korea Ex to population; LD50 - I International Conven cified; Nch - Chilean I No Observed (Advers cial Mexican Norm; N ⁻ nicals; OECD - Organ hemical Safety and Po ; PICCS - Philippines ve) Structure Activity n Parliament and of t striction of Chemicals ta Sheet; TCSI - Taiw ods; TECI - Thailand I ed States); UN - Unite ort of Dangerous Good	cals; ANTT - National Agency for Transport by a Testing of Materials; bw - Body weight; CMR - t; DIN - Standard of the German Institute for t (Canada); ECx - Concentration associated with ith x% response; EmS - Emergency Schedule; a (Japan); ErCx - Concentration associated with sponse Guide; GHS - Globally Harmonized Sys- ernational Agency for Research on Cancer; IATA - International Code for the Construction and cals in Bulk; IC50 - Half maximal inhibitory con- ganization; IECSC - Inventory of Existing Chemi- Maritime Dangerous Goods; IMO - International and Health Law (Japan); ISO - International Or- cisting Chemicals Inventory; LC50 - Lethal Con- lethal Dose to 50% of a test population (Median tion for the Prevention of Pollution from Ships; Norm; NO(A)EC - No Observed (Adverse) Effect FP - National Toxicology Program; NZIoC - New ization for Economic Co-operation and Develop- ollution Prevention; PBT - Persistent, Bioaccumu- Inventory of Chemicals and Chemical Substanc- Relationship; REACH - Regulation (EC) No he Council concerning the Registration, Evalua- ; SADT - Self-Accelerating Decomposition Tem- an Chemical Substance Inventory; TDG - Trans- Existing Chemicals Inventory; TSCA - Toxic Sub- ed Nations; UNRTDG - United Nations Recom- ds; vPvB - Very Persistent and Very Bioaccumu- Information System

Disclaimer

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