

Version 1.0	Revision Date: 12.09.2023		S Number: 270909-00001	Date of last issue: - Date of first issue: 12.09.2023
	N 1: IDENTIFICATION	:	TRIBUTE SELEC	CTIVE TURF HERBICIDE
Pro	duct code	:	Article/SKU: 791 tion: 1020000224	12580, 80204353 UVP: 86252163 Specifica- 18
Ма	nufacturer or supplier's	deta	ils	
Cor	npany	:	2022 Environmer ABN 49 656 513	ital Science AU Pty Ltd 923
Ado	dress	:	Suite 2.06, Level Hawthorn East, /	2, 737 Burwood Road Australia 3123
Tel	ephone	:	(03) 7019 3839	
Em	ergency telephone numbe	er :	+61 2 9037 2994	
Re	commended use of the c	chem	ical and restrictio	ons on use
Red	commended use	:	Herbicide	

: See product label for restrictions.

#### SECTION 2. HAZARDS IDENTIFICATION

Restrictions on use

GHS Classification Skin corrosion/irritation	: Category 2
Skin sensitisation	: Category 1
Carcinogenicity	: Category 2
Aspiration hazard	: Category 1
GHS label elements Hazard pictograms	
Signal word	: Danger
Hazard statements	<ul> <li>H304 May be fatal if swallowed and enters airways.</li> <li>H315 Causes skin irritation.</li> <li>H317 May cause an allergic skin reaction.</li> <li>H351 Suspected of causing cancer.</li> </ul>



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Preca	autionary statements	P202 Do not and understo P261 Avoid b P264 Wash s P272 Contarr the workplace	od. oreathing mist or va skin thoroughly afte ninated work clothir e. rotective gloves/ pr	ety precautions have been read pours.
		CENTER/ do P302 + P352 P308 + P313 attention. P321 Specific on this label). P331 Do NO	ctor. IF ON SKIN: Was IF exposed or con c treatment (see su T induce vomiting. If skin irritation or i	Immediately call a POISON h with plenty of water. icerned: Get medical advice/ upplemental first aid instructions rash occurs: Get medical ad-
		<b>Storage:</b> P405 Store lo	ocked up.	
		Disposal:		
		•		ainer to an approved waste
	<b>r hazards which do n</b> o known.	ot result in classific	ation	
SECTION	3. COMPOSITION/INF	ORMATION ON IN	GREDIENTS	
Subs	tance / Mixture	: Mixture		
Chen	nical nature	: Oil dispersion	(OD)	
Com	ponents			
	nical name		CAS-No.	Concentration (% w/w)
	ocarbons, C10-C13, arc	omatics, <1% naph-	64742-94-5	>= 30 -< 60

Hydrocarbons, C10-C13, aromatics, <1% naph-	64742-94-5	>= 30 -< 60
thalene		
Foramsulfuron	173159-57-4	>= 1 -< 10
Benzenesulfonic acid, mono-C11-13-branched	68953-96-8	>= 1 -< 3
alkyl derivatives, calcium salts		
Octan-1-ol	111-87-5	< 10
Naphthalene~	91-20-3	< 1

~ This substance is a constituent of another substance.



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SECTION 4. FIRST AID MEASUR	RES	
General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
If inhaled	:	lf inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. If vomiting occurs have person lean forward. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
Most important symptoms and effects, both acute and delayed	:	Aspiration may cause pulmonary oedema and pneumonitis. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
Notes to physician	:	There is no specific antidote available. Treat symptomatically. In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable. Appropriate supportive and symptomatic treatment as indicat- ed by the patient's condition is recommended.

#### SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



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Unsu media	itable extinguishing a	:	High volume wate	er jet				
Spec fightir	ific hazards during fire- ng	:	Exposure to com	Exposure to combustion products may be a hazard to health.				
Hazardous combustion prod- ucts			Carbon oxides Nitrogen oxides (NOx) Chlorine compounds Sulphur oxides Metal oxides					
Spec ods	ific extinguishing meth-	:	cumstances and t Use water spray t	measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to o				
	ial protective equipment efighters	:		e, wear self-contained breathing apparatus. ective equipment.				
Hazc	hem Code	:	•3Z					
ECTION	6. ACCIDENTAL RELE	ASE	MEASURES					
tive e	onal precautions, protec- quipment and emer- / procedures	:	Follow safe handl	ective equipment. ing advice (see section 7) and personal pro recommendations (see section 8).				
Enviro	onmental precautions	:	Prevent spreading barriers).	he environment. akage or spillage if safe to do so. g over a wide area (e.g. by containment or o				

	Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and materials for : containment and cleaning up	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate contain- ment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absor- bent. Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items employed in the cleanup of releases. You will need to deter- mine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.



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Tec	hnical measures	:	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.		
Loc	al/Total ventilation	:	Use only with ade	equate ventilation.	
Adv	Advice on safe handling		Do not get on skin or clothing. Avoid breathing mist or vapours. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.		
Ηγς	jiene measures	:	flushing systems place. When using do no Contaminated wo workplace.	emical is likely during typical use, provide eye and safety showers close to the working ot eat, drink or smoke. rk clothing should not be allowed out of the ed clothing before re-use.	
Cor	nditions for safe storage	:	Store locked up. Keep tightly close	labelled containers. ed. ice with the particular national regulations.	
Mat	terials to avoid	:	Do not store with Strong oxidizing a	the following product types: agents	

### 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
Hydrocarbons, C10-C13, aro- matics, <1% naphthalene	64742-94-5	TWA (Mist)	5 mg/m3	AU OEL
		TWA (Inhal- able particu- late matter)	5 mg/m3	ACGIH
Naphthalene	91-20-3	TWA	10 ppm 52 mg/m3	AU OEL
	Further informa	ation: Category 2	2 (Carc. 2) Suspected	l human car-
		STEL	15 ppm 79 mg/m3	AU OEL



		Further informa	ation: Category	2 (Carc. 2) Suspe	ected human c
			TWA	10 ppm	ACGIH
Engineering measures	:			especially in confi concentrations.	ned areas.
Personal protective equ	ipment				
Respiratory protection	:	lf adequate lo sure assessm	ent demonstrate	tilation is not avail es exposures outs spiratory protection	side the rec-
Filter type	:	Combined par	ticulates and or	ganic vapour type	e
Hand protection Material Break through time Glove thickness Protective index	:	Nitrile rubber > 480 min > 0.4 mm Class 6			
Remarks	:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub- stance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufactur- er. Wash hands before breaks and at the end of workday.			
Eye protection	:	Wear the follo Safety glasse		protective equipme	ent:
Skin and body protection	:	resistance dat potential. Skin contact r	a and an asses	clothing based or sment of the loca by using impervio s, etc).	l exposure
CTION 9. PHYSICAL AND	CHEMI	CAL PROPER	TIES		
Appearance	:	liquid			

Odour : aromatic

Odour Threshold : No data available



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	рН		:	5 - 7 (23 °C) Concentration: 10 deionised water	0 %
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	128 °C	
	Evapora	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	Flamma	ability (liquids)	:	Ignitable (see flas	sh point)
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	No data available	
	Relative	e vapour density	:	No data available	
	Density	,	:	ca. 0.96 g/cm³ (2	0 °C)
	Solubili Wat	ty(ies) er solubility	:	dispersible	
	Partition octanol	n coefficient: n- /water	:	Not applicable	
	Auto-ig	nition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty cosity, dynamic	:	25 - 100 mPa.s ( Shear rate of 20/	
				20 - 60 mPa.s(2 Shear rate of 100	
	Visc	cosity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	



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Oxidizing prop	perties	:	The substance	or mixture is not classified as oxidizing.		
Particle size		:	8 - 14 µm			
ECTION 10. STA	BILITY AND R	EAC	ΓΙVITY			
Reactivity		:	Not classified a	as a reactivity hazard.		
Chemical stat	oility	:	Stable under n	ormal conditions.		
Possibility of h tions	nazardous reac	- :	Can react with	strong oxidizing agents.		
Conditions to	avoid	:	None known.			
Incompatible i	naterials	:	Oxidizing ager	ts		
Hazardous de products	composition	:	No hazardous	decomposition products are known.		
ECTION 11. TOX		INFC	RMATION			
Exposure rout	Exposure routes		Inhalation Skin contact Ingestion Eye contact			
Acute toxicity Not classified	<b>y</b> based on availa	able i	nformation.			
Product:						
Acute dermal	toxicity	:	Acute toxicity e Method: Calcula	stimate: > 2,000 mg/kg ation method		
Components:	<u>.</u>					
Hydrocarbon	s, C10-C13, aı	oma	tics, <1% naph	thalene:		
Acute oral tox	Acute oral toxicity		LD50 (Rat): > 2,000 mg/kg Remarks: Based on data from similar materials			
Acute inhalatio	on toxicity	:	LC50 (Rat): >4 Exposure time: Test atmospher Remarks: Base	4 h		
Acute dermal	toxicity	:		> 2,000 mg/kg Test Guideline 402 d on data from similar materials		



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Forar	nsulfuron:					
Acute	oral toxicity	:	LD50 (Rat): > Method: OECE	5,000 mg/kg 9 Test Guideline 401		
Acute	Acute inhalation toxicity		LC50 (Rat): > 5.04 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The substance or mixture has no acute inha tion toxicity			
Acute	e dermal toxicity	:	LD50 (Rat): >2 Method: OECE	2,000 mg/kg 9 Test Guideline 402		
Benz	enesulfonic acid, mo	ono-C1	1-13-branched	alkyl derivatives, calcium salts:		
	e oral toxicity	:	LD50 (Rat): >2 Method: OECE Assessment: T icity	•		
Acute	e dermal toxicity	:	Method: OECE	1,000 - 2,000 mg/kg ) Test Guideline 402 ed on data from similar materials		
Octar	n-1-ol:					
	oral toxicity	:	LD50 (Rat): > Method: OECD	5,000 mg/kg ) Test Guideline 401		
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe Remarks: Base	: 4 h		
Acute	e dermal toxicity	:	LD50 (Rabbit):	> 2,000 mg/kg		
Naph	thalene:					
-	oral toxicity	:	LD50 (Mouse): Method: OECE	553 mg/kg ) Test Guideline 401		
Acute	inhalation toxicity	:	LC50 (Rat): > 0 Exposure time Test atmosphe Method: OECE	: 4 h		
Acute	e dermal toxicity	:	LD50 (Rat): >2 Assessment: T toxicity	2,500 mg/kg he substance or mixture has no acute dermal		



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Skin o	corrosion/irritation	
Cause	es skin irritation.	
Produ	uct:	
Speci		: Rabbit
Metho		: OECD Test Guideline 404
Result	t	: Skin irritation
<u>Comp</u>	oonents:	
-		aromatics, <1% naphthalene:
Speci		: Rabbit
Result Rema		: No skin irritation : Based on data from similar materials
Rema	rks	
Asses	ssment	: Repeated exposure may cause skin dryness or cracking
Foran	nsulfuron:	
Speci	es	: Rabbit
Metho		: OECD Test Guideline 404
Result	t	: No skin irritation
Benze	enesulfonic acid, mo	ono-C11-13-branched alkyl derivatives, calcium salts:
Speci		: Rabbit
Result	t	: Skin irritation
Octan	n-1-ol:	
Speci	es	: Rabbit
Metho		: OECD Test Guideline 404
Result	t	: No skin irritation
Naph	thalene:	
Speci		: Rabbit
Metho		: OECD Test Guideline 404
Result	t	: No skin irritation
Serio	us eye damage/eye	irritation
Not cl	assified based on ava	ailable information.
<u>Produ</u>	<u>ict:</u>	
Speci	es	: Rabbit
Result	t	: No eye irritation
Metho	od	: OECD Test Guideline 405

Remarks



### TRIBUTE SELECTIVE TURF HERBICIDE

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<u>Com</u>	<u>ponents:</u>		
Hydro	ocarbons, C10-C13,	aromatics, <1% naph	halene:
Speci		: Rabbit	
Resul		: No eye irritation	
Rema	irks	: Based on data	from similar materials
Fora	msulfuron:		
Speci	ies	: Rabbit	
, Resul		: No eye irritation	
Metho	bd	: OECD Test Gui	deline 405
Benz	enesulfonic acid. m	ono-C11-13-branched	alkyl derivatives, calcium salts:
Speci		: Rabbit	• • • • • • • • • • • • • • • • • • • •
Resul		: Irreversible effe	cts on the eye
Octai	n <b>-1-ol</b> :		
Speci		: Rabbit	
Resu		-	s, reversing within 21 days
Metho	bd	: OECD Test Gui	deline 405
Naph	thalene:		
Speci	ies	: Guinea pig	
Resul		: No eye irritation	
Metho	bd	: OECD Test Gui	deline 405
Resp	iratory or skin sensi	tisation	
-	sensitisation		
-	cause an allergic skin	reaction.	
-	iratory sensitisation		
•	lassified based on ava	ailable information.	
Prod	uct:		
Speci	ies	: Guinea pig	
Resul			idence of skin sensitisation in human
<u>Com</u>	oonents:		
Hvdro	ocarbons, C10-C13.	aromatics, <1% naph	halene:
Test		: Maximisation Te	
	sure routes	: Skin contact	
Speci	es	: Guinea pig	
Resu		: negative	
Rema	orke	<ul> <li>Decod on data i</li> </ul>	from similar materials

: negative : Based on data from similar materials



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Forar	nsulfuron:			
Test 7	Гуре	:	Maximisation Te	est
Expos	sure routes	:	Skin contact	
Speci	es	:	Guinea pig	
Metho			OECD Test Gui	deline 406
Resul	t	:	negative	
Benz	enesulfonic acid, m	nono-C1	1-13-branched	alkyl derivatives, calcium salts:
Test 1	Гуре	:	Maximisation Te	est
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Metho	bd	:	OECD Test Gui	deline 406
Resul	-		negative	
Rema	rks	:	Based on data f	rom similar materials
Octar	n-1-ol:			
Test 7	Гуре	:	Draize Test	
	sure routes	:	Skin contact	
Speci	es	:	Guinea pig	
Resul	t	:	negative	
Rema	rks	:	Based on data f	rom similar materials
Naph	thalene:			
Test 7	Гуре	:	Maximisation Te	est
	sure routes	:	Skin contact	
Speci		:	Guinea pig	
Metho	bd	:	OECD Test Gui	deline 406
Resul	t	:	negative	
Chror	nic toxicity			
Germ	cell mutagenicity			
Not cl	assified based on av	<i>i</i> ailable i	nformation.	
<u>Comp</u>	oonents:			
Hydro	ocarbons, C10-C13,	aromat	tics, <1% napht	halene:
Genot	oxicity in vitro			erial reverse mutation assay (AMES Test Guideline 471
			Result: negative	
				d on data from similar materials
Forar	nsulfuron:			
	oxicity in vitro		Test Type: Root	erial reverse mutation assay (AMES
Jenu			Result: negative	Charleverse mutation assay (AIVIE)
				ro mammalian cell gene mutation to
			Method: OECD	Test Guideline 476
			Result: negative	



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		Test Type: Chro Result: positive	omosome aberration test in vitro					
Geno	toxicity in vivo	cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negative Test Type: Uns mammalian live Species: Rat Application Rou	<ul> <li>Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)</li> <li>Species: Mouse</li> <li>Application Route: Ingestion</li> <li>Method: OECD Test Guideline 474</li> <li>Result: negative</li> <li>Test Type: Unscheduled DNA synthesis (UDS) test with mammalian liver cells in vivo</li> <li>Species: Rat</li> <li>Application Route: Ingestion</li> <li>Result: negative</li> </ul>					
Benz	enesulfonic acid, m	ono-C11-13-branched	alkyl derivatives, calcium salts:					
Geno	toxicity in vitro	Result: negative	terial reverse mutation assay (AMES) e d on data from similar materials					
		Result: negative	tro mammalian cell gene mutation test e d on data from similar materials					
Geno	toxicity in vivo	cytogenetic ass Species: Mouse Application Rou Result: negative	e ite: Ingestion					
Octa	n-1-ol:							
Geno	toxicity in vitro	: Test Type: Bac Result: negative	terial reverse mutation assay (AMES)					
		Result: negative	tro mammalian cell gene mutation test e d on data from similar materials					
Geno	toxicity in vivo	cytogenetic ass Species: Mouse Application Rou Method: OECD Result: negative	e ite: Ingestion Test Guideline 474					

### Naphthalene:



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Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: Chron Result: positive	nosome aberration test in vitro
Geno	toxicity in vivo	:	Test Type: Unscl mammalian liver Species: Rat Application Route Result: negative	
Carci	nogenicity			
Suspe	ected of causing cance	r.		
<u>Com</u>	oonents:			
Forar	msulfuron:			
Speci		:	Rat	
	cation Route sure time	-	Ingestion 2 Years	
Metho		÷	OECD Test Guid	eline 453
Resul	lt	:	positive	
Carcir ment	nogenicity - Assess-	:	Limited evidence	of carcinogenicity in animal studies
Naph	thalene:			
Speci		:	Rat	
	cation Route	:	inhalation (vapou	r)
	sure time	:	105 weeks	
Resul	t	:	positive	
Carcir ment	nogenicity - Assess-	:	Limited evidence	of carcinogenicity in animal studies
-	oductive toxicity			
	lassified based on avail	able	information.	
	<u>oonents:</u>			
	msulfuron:			
Effect	s on fertility	:	Species: Rat Application Route	generation reproduction toxicity study e: Ingestion Fest Guideline 416
Effect	s on foetal develop-	•	Test Type: Embr	yo-foetal development
ment		•	Species: Rat	,
			Application Route	e: Ingestion



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		Mathady OFOD	Test Ovideling 444
		Result: negative	Test Guideline 414
Benz	enesulfonic acid, mo		alkyl derivatives, calcium salts:
Effect	s on fertility	: Test Type: Thre Species: Rat	e-generation reproduction toxicity study
		Application Rou	
		Result: negative Remarks: Base	e d on data from similar materials
	s on foetal develop-		pryo-foetal development
ment		Species: Rat Application Rou	te: Ingestion
		Result: negative	d on data from similar materials
		Remarks. Dase	
	n-1-ol:	. Test Times Der	reduction/Developmental texisity
Ellect	s on fertility	test	roduction/Developmental toxicity screen
		Species: Rat Application Rou	te: Indestion
		Result: negative	
		Remarks: Base	d on data from similar materials
	s on foetal develop-		oryo-foetal development
ment		Species: Rat Application Rou	te: Ingestion
		Result: negative	
•	thalene:		
Effect ment	s on foetal develop-	: Test Type: Emb Species: Rabbit	pryo-foetal development
mont		Application Rou	te: Ingestion
		Method: OECD Result: negative	Test Guideline 414
STOT	- single exposure		
	lassified based on ava	ilable information.	
<u>Produ</u>			
Asses	ssment		or mixture is not classified as specific ta single exposure.
<u>Comp</u>	oonents:		
-		aromatics, <1% naph	
	ssment	2	vsiness or dizziness. from similar materials
Rema	แกร	. Daseu on data	nom similar materials



sion	Revision Date: 12.09.2023	SDS Number: 11270909-00001	Date of last issue: - Date of first issue: 12.09.2023				
	- repeated exposur						
	assified based on ava <b>conents:</b>	allable information.					
-	thalene:						
•	sure routes	: inhalation (vapo	ur)				
•	ssment		ealth effects observed in animals at concer				
Repe	ated dose toxicity						
<u>Comp</u>	oonents:						
Forar	nsulfuron:						
Speci		: Dog					
NOAE		: 1,000 mg/kg					
	ation Route	: Ingestion : 1 yr					
Metho		: OECD Test Gui	deline 452				
Speci		: Rat					
NOAE		: 1,000 mg/kg					
	ation Route	: Ingestion : 90 Days					
Metho		: OECD Test Gui	deline 408				
Speci		: Rat					
NOAE		: 1,000 mg/kg					
	ation Route	: Skin contact : 28 Days					
Metho			: OECD Test Guideline 410				
Benzo	enesulfonic acid, m	ono-C11-13-branched	alkyl derivatives, calcium salts:				
Speci		: Rat					
LOAE		: > 100 mg/kg					
	ation Route	: Ingestion					
Expos Rema	sure time rks	: 9 Months : Based on data 1	rom similar materials				
Octar	1-0l·						
		· Dot					
Speci NOAE		: Rat : > 2,000 mg/kg					
	ation Route	: Ingestion					
Expos	sure time	: 41 - 54 Days					
Rema	rks	: Based on data t	rom similar materials				
Speci		: Rat					
NOAE		: > 1,000 mg/kg					
	ation Route	: Skin contact : 90 Days					
строз		. 30 Days					



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d	· OF	CD Test Gui	deline /11
ks			rom similar materials
halene:			
es L ation Route ure time d	: 13 : Ing : 90	3 mg/kg estion Days	deline 408
es L ation Route ure time d	: 0.0 : inh : 13	11 mg/l alation (vapou Weeks	
es L ation Route ure time d	: 300 : Sk : 13	) mg/kg in contact Weeks	deline 411
	12.09.2023 d ks halene: es L ation Route ure time d es L ation Route ure time d es L ation Route ure time d	12.09.202311270912.09.2023112709d:ks:Bahalene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene:es:Malene::es:Malene::Malene::Station Route:Sk:ure time:13	12.09.2023       11270909-00001         d       :       OECD Test Gui         ks       :       Based on data f         halene:       :       :         es       :       Mouse         L       :       133 mg/kg         ation Route       :       Ingestion         ure time       :       90 Days         d       :       OECD Test Gui         es       :       Rat         L       :       0.011 mg/l         ation Route       :       inhalation (vapor         ure time       :       13 Weeks         d       :       OECD Test Gui         es       :       Rat         L       :       300 mg/kg         ation Route       :       Skin contact         ure time       :       33 Weeks

May be fatal if swallowed and enters airways.

#### **Components:**

#### Hydrocarbons, C10-C13, aromatics, <1% naphthalene:

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.

#### Octan-1-ol:

The substance or mixture causes concern owing to the assumption that it causes a human aspiration toxicity hazard.

#### SECTION 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity	:	Very toxic to aquatic life.
Chronic aquatic toxicity	:	Very toxic to aquatic life with long lasting effects.

#### Components:

Hydrocarbons, C10-C13, aromatics, <1% naphthalene:



ersion )	Revision Date: 12.09.2023		S Number: 270909-00001	Date of last issue: - Date of first issue: 12.09.2023
Toxicity	/ to fish	:	Exposure time: Test substance	nchus mykiss (rainbow trout)): > 1 - 10 mg/l 96 h : Water Accommodated Fraction d on data from similar materials
	<i>i</i> to daphnia and other invertebrates	:	Exposure time: Test substance	magna (Water flea)): > 1 - 10 mg/l 48 h : Water Accommodated Fraction d on data from similar materials
Toxicity plants	/ to algae/aquatic	:	mg/l Exposure time: Test substance Method: OECD	irchneriella subcapitata (green algae)): >1. 72 h : Water Accommodated Fraction Test Guideline 201 d on data from similar materials
			- 1 mg/l Exposure time: Test substance Method: OECD	okirchneriella subcapitata (green algae)): > 72 h : Water Accommodated Fraction Test Guideline 201 d on data from similar materials
Foram	sulfuron:			
Toxicity	/ to fish	:	Exposure time:	nchus mykiss (rainbow trout)): > 100 mg/l 96 h Test Guideline 203
	<i>i</i> to daphnia and other invertebrates	:	Exposure time:	magna (Water flea)): > 100 mg/l 48 h Test Guideline 202
Toxicity plants	/ to algae/aquatic	:	Exposure time:	gibba (gibbous duckweed)): 0.00096 mg/l 7 Days Test Guideline 221
			Exposure time:	jibba (gibbous duckweed)): 0.000125 mg/l 7 Days Test Guideline 221
Toxicity icity)	/ to fish (Chronic tox-	:	Exposure time:	ales promelas (fathead minnow)): 10.5 mg/ 35 d Test Guideline 210
Toxicity	/ to daphnia and other invertebrates (Chron-	:	Exposure time:	a magna (Water flea)): > 100 mg/l 21 d Test Guideline 211



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			Exposure time: Remarks: Base	96 h d on data from similar materials
	ity to daphnia and other ic invertebrates	:	Exposure time: Method: OECD	magna (Water flea)): > 10 - 100 mg/l 48 h Test Guideline 202 d on data from similar materials
Toxici plants	ity to algae/aquatic	:	10 mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): > 72 h d on data from similar materials
			mg/l Exposure time:	ocelis subcapitata (freshwater green alga)): > 1 72 h d on data from similar materials
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time:	/nchus mykiss (rainbow trout)): > 0.1 - 1 mg/l 72 d d on data from similar materials
	ity to daphnia and other ic invertebrates (Chron- icity)	:	Exposure time:	i magna (Water flea)): > 1 mg/l 21 d d on data from similar materials
Toxici	ity to microorganisms	:	Exposure time: Method: OECD	sludge): > 100 mg/l 3 h Test Guideline 209 d on data from similar materials
Octar	n-1-ol:			
Toxici	ity to fish	:	LC50 (Pimepha Exposure time:	les promelas (fathead minnow)): 13.3 mg/l 96 h
	ity to daphnia and other ic invertebrates	:	EC50 (Daphnia Exposure time:	magna (Water flea)): 20 mg/l 24 h
Toxici plants	ity to algae/aquatic	:	EC50 (Desmod Exposure time:	esmus subspicatus (green algae)): 14 mg/l 48 h
			EC10 (Desmod Exposure time:	esmus subspicatus (green algae)): 4.2 mg/l 48 h
	ity to daphnia and other ic invertebrates (Chron-icity)	:	NOEC (Daphnia Exposure time:	n magna (Water flea)): 1 mg/l 21 d
Toxici	ity to microorganisms	:	EC50: 350 mg/ Exposure time: Method: OECD	



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-	bhthalene: icity to fish	:	LC50 (Pimephale Exposure time: 96	s promelas (fathead minnow)): 6.08 mg/l 3 h
	icity to daphnia and other atic invertebrates	:	EC50 (Daphnia magna (Water flea)): 2.16 mg/l Exposure time: 48 h Method: OECD Test Guideline 202	
Toxi plan	icity to algae/aquatic its	:	EC50 (Skeletoner Exposure time: 72	na costatum (marine diatom)): 0.4 mg/l 2 h
Toxi icity	icity to fish (Chronic tox-	:	NOEC (Oncorhyn Exposure time: 40	chus kisutch (coho salmon)): 0.37 mg/l ) d
aqua	icity to daphnia and other atic invertebrates (Chron- xicity)	:	NOEC (Daphnia ) Exposure time: 12	oulex (Water flea)): 0.59 mg/l 25 d
Toxi	icity to microorganisms	:	IC50 (Nitrosomon Exposure time: 24	
Per	sistence and degradabil	ity		
Con	nponents:			
Hyd	lrocarbons, C10-C13, arc	oma	atics, <1% naphth	alene:
Bioc	degradability	:		odegradable. est Guideline 301F on data from similar materials
Ben	zenesulfonic acid, mono	o-C <sup>,</sup>	11-13-branched al	kyl derivatives, calcium salts:
Biod	degradability	:		y biodegradable. est Guideline 301E on data from similar materials
Octa	an-1-ol:			
Bioc	degradability	:	Result: Readily bi Biodegradation: Exposure time: 20 Method: OECD T	92 %
Nap	ohthalene:			
Bioc	degradability	:	Result: Not readily Biodegradation: Exposure time: 4 Method: OECD T	2 %



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Piece	our alotivo notontic	.1		
_	ccumulative potentia	11		
<u>Com</u>	ponents:			
Hydro	ocarbons, C10-C13,	aromatic	s, <1% naph	thalene:
	ion coefficient: n- ol/water		g Pow: < 4 emarks: Calc	ulation
Fora	msulfuron:			
	ion coefficient: n- ol/water		g Pow: 0.60 ethod: OECD	) Test Guideline 107
Benz	enesulfonic acid, m	ono-C11-1	3-branched	alkyl derivatives, calcium salts:
	ion coefficient: n- ol/water		g Pow: 4.595 ethod: Regula	ation (EC) No. 440/2008, Annex, A.8
Octa	n-1-ol:			
	ion coefficient: n- ol/water		g Pow: 3.5 ethod: OECD	) Test Guideline 117
Naph	thalene:			
Bioac	cumulation	Bi	oconcentratio	nus carpio (Carp) on factor (BCF): 36.5 - 168 ) Test Guideline 305
	ion coefficient: n- ol/water	: lo	g Pow: 3.4	
Mobi	lity in soil			
No da	ata available			
Othe	r adverse effects			
No da	ata available			

### SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	It is best to use all of the product in accordance with label directions. If it is necessary to dispose of unused product, please follow container label instructions and applicable local guidelines. Do not dispose of waste into sewer.
Contaminated packaging	:	Follow advice on product label and/or leaflet. Empty containers retain residue and can be dangerous. Do not re-use empty containers.



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#### SECTION 14. TRANSPORT INFORMATION

#### International Regulations

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

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

Not applicable for product as supplied.

### **National Regulations**

<b>ADG</b> UN number Proper shipping name	:	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Foramsulfuron)
Class Packing group Labels Hazchem Code Environmentally hazardous	:	9 III 9 •3Z yes



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#### 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

tions.

 Standard for the Uniform
 : Schedule 5

 Scheduling of Medicines and
 Poisons

 Prohibition/Licensing Requirements
 : There is no applicable prohibition, authorisation and restricted use requirements, including for carcinogens referred to in Schedule 10 of the model WHS Act and Regula 

Active substance

: 22.5 g/l Foramsulfuron

#### SECTION 16: ANY OTHER RELEVANT INFORMATION

Fu	rther	information
_		-

Revision Date	:	12.09.2023				
Sources of key data used to compile the Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/				
Date format	:	dd.mm.yyyy				
Full text of other abbreviatio	Full text of other abbreviations					
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)				
AU OEL	:	Australia. Workplace Exposure Standards for Airborne Con- taminants.				
ACGIH / TWA AU OEL / TWA AU OEL / STEL	:	8-hour, time-weighted average Exposure standard - time weighted average Exposure standard - short term exposure limit				

AllC - 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



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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 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; 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

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

AU / EN