according to the Globally Harmonized System



AMBRIVA

Version 1.0	Revision Date: 06.06.2024	SD 500	S Number:)02903	Date of last issue: - Date of first issue: 06.06.2024			
1. PRODUCT AND COMPANY IDENTIFICATION							
Produc	Product name		AMBRIVA				
Other n	Other means of identification		BIXLOZONE 50% + METRIBUZIN 10% WG				
Manufa	acturer or supplier's o	detai	ils				
Compa	ny	:	FMC India Privat	e Limited			
Addres	S	:	TCG Financial C Bandra Kurla Co Bandra (E), Mum India	entre, 2nd Floor, C-53, mplex, ibai, Maharashtra-400098			
E-mail	address	:	SDS-Info@fmc.c	com			
Emerge	ency telephone	:	022 6704 5504/5 000-800-100-714	404 41 (CHEMTREC)			
Medica	Medical Emergency Number		022 6704 5504/5	404			
Recommended use of the ch			ical and restriction	ons on use			
Recom	mended use	:	Can be used for	production of herbicides only.			
Restric	tions on use	:	Use as recomme	ended by the label.			

2. HAZARDS IDENTIFICATION

Manufacture, Storage and Import of Hazardous Chemicals Rules 1989

Classification

Not classified as hazardous according to criteria laid down in Part I of Schedule-1.

GHS Classification		
Specific target organ toxicity - repeated exposure	:	Category 2 (Blood, Thyroid)
Short-term (acute) aquatic hazard	:	Category 2
Long-term (chronic) aquatic hazard	:	Category 1

GHS label elements

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Haza	rd pictograms		₹ <u>₹</u>
Signa	al Word	: WARNING	
Hazard Statements		: H373 May c prolonged o H401 Toxic H410 Very t	ause damage to organs (Blood, Thyroid) through r repeated exposure. to aquatic life. oxic to aquatic life with long lasting effects.
Precautionary Statements		Prevention P260 Do no P273 Avoid	t breathe dust. release to the environment.
		Response: P319 Get m P391 Collec	edical help if you feel unwell. t spillage.
		Disposal: P501 Dispos disposal pla	se of contents/ container to an approved waste nt.

Other hazards which do not result in classification

May form explosible dust-air mixture if dispersed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (%
Biylozone	81777-95-9	>= 30 = < 60
DIXIOZOTIE	01111-33-3	>= 30 - < 00
metribuzin (ISO)	21087-64-9	>= 5 - < 15
Talc (Mg3H2(SiO3)4)	14807-96-6	>= 10 - < 20
Residues, petroleum, catalytic reformer fractiona- tor, sulfonated, polymers with formaldehyde, sodi- um salts	68425-94-5	>= 2.5 - < 10
Sulfuric acid, mono-C10-16-alkyl esters, sodium salts	68585-47-7	>= 3 - < 10

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	:	If unconscious, place in recovery position and seek medical advice.

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			If symptoms persist, call a physician.				
	In case of skin contact	:	Wash off with soa Call a physician if	p and plenty of water. irritation develops or persists.			
	In case of eye contact		Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.				
	If swallowed		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. Take victim immediately to hospital.				
	Most important symptoms and effects, both acute and delayed		May cause damage to organs through prolonged or repeated exposure.				
	Notes to physician		Treat symptomatically.				
5. FI	5. FIRE-FIGHTING MEASURES						
	Suitable extinguishing media	:	Dry chemical, CO	2, water spray or regular foam.			
	Unsuitable extinguishing media	:	High volume wate	r jet			
	Specific hazards during fire fighting		Do not allow run-o courses.	off from fire fighting to enter drains or water			
	Hazardous combustion prod- ucts	:	Fire may produce Chlorinated comp Nitrogen oxides (N Carbon oxides Sulfur oxides	irritating, corrosive and/or toxic gases. ounds NOx)			
	Specific extinguishing meth- ods	:	Collect contamina must not be disch Fire residues and be disposed of in	ted fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.			
	Special protective equipment for fire-fighters	:	Firefighters should breathing apparat	d wear protective clothing and self-contained us.			

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Avoid dust formation.
tive equipment and emer-	Use personal protective equipment.

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ger	ncy procedures				
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 infor respective authorities.		
Me ^r con	Methods and materials for containment and cleaning up		Keep in suitable, closed containers for disposal.		
7. HAND	DLING AND STORAGE				
Adv fire	Advice on protection against fire and explosion		Provide appropriation is formed.	te exhaust ventilation at places where dust	
Adv	Advice on safe handling		Avoid formation of respirable particles. Do not breathe vapors/dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the a plication area. Dispose of rinse water in accordance with local and nation regulations.		
Cor	Conditions for safe storage		Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed kept upright to prevent leakage. Electrical installations / working materials must comply w the technological safety standards.		
Fur age	Further information on stor- age stability		Keep in a dry plac No decomposition	e. if stored and applied as directed.	

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

:

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Talc (Mg3H2(SiO3)4)	14807-96-6	TWA	0.1 fibres per cubic centimeter	ACGIH
		TWA (Res- pirable par- ticulate mat- ter)	2 mg/m3	ACGIH
metribuzin (ISO)	21087-64-9	TWA	5 mg/m3	ACGIH

Personal protective equipment

Respiratory protection

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that

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			exposures are wi	hin recommended exposure guidelines.	
Filt	ter type	:	Particulates type		
Hand protection Material		:	Wear chemical re butyl rubber or nit	sistant gloves, such as barrier laminate, rile rubber.	
Remarks		:	The suitability for with the producer	a specific workplace should be discussed s of the protective gloves.	
Eye protection		:	Eye wash bottle with pure water Tightly fitting safety goggles		
Skin and body protection		:	Dust impervious protective suit Choose body protection according to the amount and con tration of the dangerous substance at the work place.		
Protec	ctive measures	:	Always have on h structions.	and a first-aid kit, together with proper in-	
Hygie	ne measures	:	Wash hands befo	re breaks and at the end of workday.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	:	solid
Form	:	dry, free flowing, water dispersible granules
Color	:	cream
Odor	:	No data available
рН	:	8.96 (25 °C) (1% solution in water)
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	Not applicable
Flash point	:	Not applicable
Flammability (liquids)	:	Not applicable
Self-ignition	:	No data available

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	Vapor	pressure	:	not determined	
	Density	/	:	No data available	9
	Bulk de	ensity	:	No data availabl	e
	Solubility(ies) Water solubility		:	dispersible	
	Partition coefficient: n- octanol/water		:	Not applicable	
	Viscosi Visc	ity cosity, kinematic	:	Not applicable	
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	Non-oxidizing	

10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	No decomposition if stored and applied as directed.
Possibility of hazardous reac- tions	:	No decomposition if stored and applied as directed. Dust may form explosive mixture in air.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong acids and strong bases Strong oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

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

Product:	
Acute oral toxicity	 LD50(Rat, female): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral tox- icity
Acute inhalation toxicity	: LC50(Rat, male and female): > 5.17 mg/l Exposure time: 4 h

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		Test atmosp Method: OE0 Assessment tion toxicity	here: dust/mist CD Test Guideline 403 The substance or mixture has no acute inhala-
Acu	te dermal toxicity	: LD50(Rat, fe Method: OE(Assessment: toxicity	male): > 2,000 mg/kg CD Test Guideline 402 The substance or mixture has no acute dermal
<u>Con</u>	nponents:		
Bixl	ozone:		
Acu	te oral toxicity	: LD50 (Rat, fe Method: OEC Symptoms: h GLP: yes Assessment: single ingest Remarks: no	emale): > 2,000 mg/kg CD Test Guideline 425 hypoactivity, Breathing difficulties The component/mixture is minimally toxic after ion. mortality
Acu	te inhalation toxicity	: LC50 (Rat, n Exposure tim Test atmosp Method: OE0 Symptoms: E GLP: yes Remarks: no	nale and female): > 2.11 mg/l ne: 4 h here: dust/mist CD Test Guideline 403 Breathing difficulties
Acu	te dermal toxicity	: LD50 (Rat, n Method: OE0 Symptoms: I GLP: yes Assessment: single contac Remarks: no	nale and female): > 2,000 mg/kg CD Test Guideline 402 rritation The component/mixture is minimally toxic after ct with skin. mortality
met	ribuzin (ISO):		
Acu	te oral toxicity	: LD50 (Rat, fe	emale): 322 mg/kg
		LD50 (Rat, n	nale): 510 mg/kg
		LD50 (Mouse	e): 700 mg/kg
Acu	te inhalation toxicity	: LC50 (Rat): Exposure tim Test atmosp Assessment tion toxicity Remarks: Hi	 > 2.05 mg/l he: 4 h here: dust/mist The substance or mixture has no acute inhala- ghest attainable concentration.
		LC50 (Rat, n	nale and female): > 0.648 mg/l

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			Exposure time Test atmosphe Assessment: T tion toxicity Remarks: High	: 4 h re: dust/mist 'he substance or mixture has no acute inhala- est attainable concentration.
	Acute dermal toxicity	:	LD50 (Rat): > \$	5,000 mg/kg
	Talc (Mg3H2(SiO3)4):			
	Acute oral toxicity	:	LD0 (Rat, male Method: OECD Remarks: no m	e): > 5,000 mg/kg 0 Test Guideline 423 nortality
	Acute inhalation toxicity	:	LC0 (Rat, male Exposure time: Test atmosphe Method: OECE Remarks: no m	e and female): > 2.1 mg/l : 4 h are: dust/mist) Test Guideline 403 nortality
	Acute dermal toxicity	:	LD0 (Rat, male Method: OECD Remarks: no m	e and female): > 2,000 mg/kg) Test Guideline 402 nortality
	Residues, petroleum, ca	atalytic	reformer fractio	onator, sulfonated, polymers with formalde-
	Acute oral toxicity	:	LD50 (Rat): > \$	5,000 mg/kg
	Sulfuric acid, mono-C10	0-16-alky	/I esters, sodiu	m salts:
	Acute oral toxicity	:	LD50 (Rat): 1,2	200 mg/kg
	Acute dermal toxicity	:	LD50 (Rat): > 2	2,000 mg/kg
	Skin corrosion/irritation Based on available data,	ا the class	sification criteria	are not met.
	Product:			
	Species	:	Rabbit	
	Method Result	:	OECD Test Gu No skin irritatio	iideline 404 n
	Components:			
	Bixlozone:			
	Species Assessment	:	Rabbit Not classified a	as irritant
	Method Result GLP Remarks	:	OECD Test Gu slight or no skii yes Minimal effects	ideline 404 n irritation. s that do not meet the threshold for classifica-

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				tion.	
m	etribuz	zin (ISO):			
Sr	pecies		:	Rabbit	
M	ethod		:	OECD Test G	uideline 404
Re	esult		:	No skin irritati	on
Та	alc (Mg	J3H2(SiO3)4):			
Sp Re	pecies esult		:	reconstructed No skin irritati	human epidermis (RhE) on
Re	esidue vde. so	s, petroleum, cat	alytic	reformer fract	ionator, sulfonated, polymers with formalde-
Re	emarks	;	:	No data availa	able
Si	ulfuric	acid mono-C10-	16-alk	vlesters sodi	um salts:
Re	esult		:	Skin irritation	
Se	erious	eye damage/eye	irritati	on	
Ba	ased or	n available data, th	ne clas	sification criteri	a are not met.
Pr	roduct	<u>:</u>			
Sp	pecies		:	Rabbit	
M	ethod		:	OECD Test G	uideline 405
Re	esult		:	No eye irritatio	DN
<u>C</u>	ompon	ents:			
Bi	ixlozor	ne:			
Sp	pecies		:	Rabbit	
As	ssessm	ient	:	Not classified	as irritant uidalina 405
Re	esult		:	Slight or no ev	ve irritation
G	LP		:	yes	,
Re	emarks	;	:	Minimal effect tion.	s that do not meet the threshold for classifica-
m	etribuz	zin (ISO):			
Sp	pecies	. ,	:	Rabbit	
M	ethod		:	OECD Test G	uideline 405
Re	esult		:	No eye irritatio	on
Та	alc (Mg	J3H2(SiO3)4):			
Sp	pecies		:	Rabbit	
M	ethod		:	OECD Test G	uideline 405
Re	esult		:	NO eye irritatio	n

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	Residu hyde, s Result	ies, petroleum, cat sodium salts:	alytic :	reformer fraction	onator, sulfonated, polymers with formalde-				
	Sulfuri Result	c acid, mono-C10-′	16-alky :	y l esters, sodiu Irreversible eff	i m salts: ects on the eye				
	Respiratory or skin sensitization								
	Skin sensitization Based on available data, the classification criteria are not met.								
	Respir Not cla	atory sensitization	f data.						
	Product Test Ty Routes Species Methoo Result	<u>et:</u> /pe of exposure s	:	Local lymph no Skin contact mice OECD Test Gu Not a skin sens	ode assay (LLNA) iideline 429 sitizer.				
	Compo	onents:							
	Bixlozo Test Ty Species Methoo Result GLP	one: /pe s l	:	Local lymph no Mouse OECD Test Gu Does not caus yes	ode assay (LLNA) iideline 429 e skin sensitization.				
	metribe Test Ty Species Methoo Result	uzin (ISO): /pe s l	:	Buehler Test Guinea pig OECD Test Gu Does not caus	uideline 406 e skin sensitization.				
	Talc (N Test Ty Routes Species Methoc Result Routes Species Result	Ig3H2(SiO3)4): /pe of exposure s of exposure s		Maximization T Dermal Guinea pig OECD Test Gu Does not caus Inhalation Rat Does not caus	e respiratory sensitization.				

Sulfuric acid, mono-C10-16-alkyl esters, sodium salts:

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Resu	lt	:	Not a skin sen	sitizer.
Germ Not c	n cell mutagenicity lassified based on ava	ailable i	information.	
Com	ponents:			
Bixlo	zone:			
Gend	otoxicity in vitro	:	Test Type: Am Metabolic activ Method: OECI Result: negativ GLP: yes	es test /ation: with and without metabolic activation D Test Guideline 471 /e
			Test Type: In v Test system: n Metabolic activ Method: OECI Result: negativ GLP: yes	vitro mammalian cell gene mutation test nouse lymphoma cells vation: with and without metabolic activation D Test Guideline 490 ve
			Test system: C Metabolic activ Method: OECI Result: negativ GLP: yes	Chinese hamster ovary cells vation: with and without metabolic activation O Test Guideline 476 ve
Genc	otoxicity in vivo	:	Test Type: Mic Cell type: Bond Method: OECI Result: negativ GLP: yes	cronucleus test e marrow D Test Guideline 474 /e
Germ Asse	n cell mutagenicity - ssment	:	Animal testing	did not show any mutagenic effects.
metri	ibuzin (ISO):			
Germ Asse	n cell mutagenicity - ssment	:	Weight of evid cell mutagen.	ence does not support classification as a germ
Talc	(Mg3H2(SiO3)4):			
Gend	toxicity in vitro	:	Test Type: In v Result: negativ	vitro mammalian cell gene mutation test ve
			Test Type: ger Method: QSAF Result: negativ	ne mutation test R ve
			Test Type: rev Result: negativ	erse mutation assay /e

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Ger	otoxicity in vivo	: Test Spe App Res	Type: domir cies: Rat (ma lication Route ult: negative	nant lethal test ale) e: Oral
Ger Ass	m cell mutagenicity - essment	: Wei cell	ght of eviden mutagen.	ce does not support classification as a germ
Sulf	uric acid, mono-C10-16	-alkvl est	ers. sodium	salts:
Ger	otoxicity in vitro	: Res	ult: negative	
Ger	otoxicity in vivo	: Res	ult: negative	
Car	cinogenicity			
Not	classified based on avail	able inforr	nation.	
Con	nponents:			
Bix	ozone:			
Spe App Exp Met Res GLF Spe App Exp NO/ Met Res GLF Card mer	ozone: cies lication Route osure time hod ult cies lication Route osure time AEL hod ult cinogenicity - Assess-	: Mou : Oral : 18 n : 647 : OEC : nega : yes : Rat, : Oral : 2 Ye : 167 : OEC : nega : yes : Anin	se nonth(s) mg/kg bw/da D Test Guid ative female ears mg/kg bw/da D Test Guid ative nal testing die	eline 451 ly eline 453 d not show any carcinogenic effects.
met	riduzin (ISO):	. Det	mala	
Spe App	lication Route	: Rat, : Oral	male	
Exp	osure time	: 2 Ye	ars	
NO	\EL	: 1.3 ı	mg/kg bw/day	y
Car mer	cinogenicity - Assess- It	: Anin	nal testing die	d not show any carcinogenic effects.
Talo	: (Mg3H2(SiO3)4):			
Spe App	cies lication Route	: Rat, : Oral	male and fe	male

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	Exposi Dose NOAE Methor Result Target Tumor Carcin ment	ure time L d Organs Type ogenicity - Assess-		101 days 100 mg/kg bw/day 100 mg/kg bw/day OECD Test Guide negative Stomach Leiomyosarcoma Weight of evidenc cinogen	/ / eline 453 e does not support classification as a car-
	Sulfur	ic acid, mono-C10-16-	alky	/l esters, sodium	salts:
	Specie Expos Metho Result Remai	es ure time d rks		Rat, male and fen 2 Years OECD Test Guide negative Based on data fro	nale eline 453 m similar materials
	Repro Not cla	ductive toxicity assified based on availa	ble	information.	
	<u>Comp</u>	<u>onents:</u>			
	Effects	one: s on fertility	:	Test Type: Two-g Species: Rat, mal General Toxicity F Early Embryonic I Method: OECD To GLP: yes	eneration study e Parent: NOAEL: 140 mg/kg bw/day Development: NOAEL: 34 - 60 mg/kg bw/day est Guideline 416
	Effects	on fetal development	:	Test Type: Embry Species: Rat Application Route General Toxicity M Embryo-fetal toxic Method: OECD To Result: negative GLP: yes	o-fetal development : Oral /aternal: NOAEL: 75 mg/kg bw/day sity.: NOAEL: 550 mg/kg bw/day est Guideline 414
				Test Type: Embry Species: Rabbit Application Route Dose: 25, 75, 200 General Toxicity N Embryo-fetal toxic Method: OECD To Result: negative GLP: yes	o-fetal development : Oral , 400 mg/kg bw/day /aternal: NOAEL: 400 mg/kg bw/day city.: NOAEL: 400 mg/kg bw/day est Guideline 414
	Repro	ductive toxicity - As-	:	Weight of evidence	e does not support classification for repro-

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sessn	nent		ductive toxicity	
metri	buzin (ISO):			
Repro sessn	oductive toxicity - As- nent	:	Weight of eviden ductive toxicity	ce does not support classification for repro
Talc ((Mg3H2(SiO3)4):			
Effect	s on fertility	:	Species: Rabbit, Application Route Dose: 9, 42, 195, General Toxicity General Toxicity Result: negative	female e: Oral , 900 mg/kg bw/day Parent: NOAEL: > 900 mg/kg body weight F1: NOAEL: > 900 mg/kg body weight
Effect	s on fetal development	:	Test Type: reprod Species: Rat Application Route Dose: 0,16,74,35 Duration of Single General Toxicity Embryo-fetal toxi Result: negative	ductive and developmental toxicity study e: Oral 60,1600mg/kg bw/day e Treatment: 20 d Maternal: NOAEL: >= 1,600 mg/kg bw/day city.: NOAEL: 1,600 mg/kg bw/day
Repro sessn	oductive toxicity - As- nent	:	 Weight of evidence does not support classification for repr ductive toxicity 	
STOT	-single exposure			
Not cl	assified based on availa	able	information.	
Comp	ponents:			
Talc (Asses	(Mg3H2(SiO3)4): ssment	:	The substance of organ toxicant, si	r mixture is not classified as specific target ngle exposure.
стот	-repeated exposure			
May c	cause damage to organs	s (Bl	ood, Thyroid) throu	ugh prolonged or repeated exposure.
<u>Comp</u>	oonents:			
metri	buzin (ISO):			
Targe Asses	et Organs ssment	:	Blood, Thyroid The substance of toxicant, repeated	r mixture is classified as specific target org d exposure, category 2.
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
Bixlo	zone:			
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Speci NOAE Applic Expos Metho GLP	es EL sation Route sure time od	: Rat, male : 121 mg/kg bw : Oral - feed : 90 days : OECD Test G : yes	/day uideline 408			
Speci NOAE Applic Expos Metho GLP Targe	es EL sation Route sure time od t Organs	 Rat, female 351 mg/kg bw/day Oral - feed 90 days OECD Test Guideline 424 yes Nervous system 				
Speci NOAE Applic Expos Metho GLP Targe	es EL cation Route sure time od t Organs	 Rat, male 359 mg/kg bw/day Oral - feed 28 days OECD Test Guideline 407 yes Liver 				
Speci NOAE Applic Expos Metho GLP	es EL cation Route sure time od	: Rat : 1000 mg/kg by : Dermal : 21 d : OECD Test G : yes	w/day uideline 410			
metri i Speci NOAE Applic Expos	buzin (ISO): es EL cation Route sure time	: Rat : <5 mg/kg bw/o : Oral : 90-day	day			
Talc (Speci NOAE Applic Expos Dose	Mg3H2(SiO3)4): es EL cation Route sure time	: Rat, male and : 100 mg/kg : Oral - feed : 101 d : 100 mg/kg bw	female /day			
Speci NOAE LOAE Applic Test a Expos Dose	es EL L ation Route atmosphere sure time	 Rat, male and 2 mg/m3 6 mg/m3 inhalation (dust) dust/mist 20 d 0, 2, 6, 18 mg/matheta 	female st/mist/fume) /m³			

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Sulfuric acid, mono-C10-16-alkyl esters, sodium salts:

Species	: Rat, male and female
Application Route	: Oral
Exposure time	: 13 weeks
Method	: OECD Test Guideline 408
Remarks	: No significant adverse effects were reporte
	Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Components:

Bixlozone:

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

Neurological effects

Components:

Bixlozone:

No neurotoxicity observed in animal studies.

Further information

Product:

Remarks

: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish :	LC50 (Cyprinus carpio (Carp)): 8.3 mg/l Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 203
Toxicity to soil dwelling or- : ganisms	NOEC: > 1,000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207
	LC50: > 1,000 mg/kg Exposure time: 14 d Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207
Toxicity to terrestrial organ- : isms	LD50: > 240 µg/bee Exposure time: 48 h End point: Acute oral toxicity

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		Species: Apis Method: OECI LD50: > 240 µ Exposure time End point: Acu Species: Apis Method: OECI LD50: > 2,000 End point: Acu Species: chick Method: OECI	mellifera L. D Test Guideline 213 g/bee : 48 h ite contact toxicity mellifera L. D Test Guideline 214 mg/kg ite oral toxicity en D Test Guideline 223
<u>Com</u>	ponents:		
Bixlo Toxic	zone: ity to fish	: LC50 (Oncorh Exposure time Test Type: sta Method: OECI GLP: yes	ynchus mykiss (rainbow trout)): 9.8 mg/l : 96 h tic test D Test Guideline 203
		NOEC (Brachy Exposure time Test Type: sta Method: OECI GLP: yes	/danio rerio (zebrafish)): 50 mg/l : 96 h tic test D Test Guideline 203
		LC50 (Cyprind mg/l Exposure time Test Type: sta Method: OECI GLP: yes	don variegatus (sheepshead minnow)): > 14 : 96 h tic test D Test Guideline 203
		NOEC (Cyprin mg/l Exposure time Test Type: sta Method: OECI GLP: yes	odon variegatus (sheepshead minnow)): 2.2 : 96 h tic test D Test Guideline 203
		LC50 (Lepomi Exposure time Test Type: sta Method: OECI GLP: yes	s macrochirus (Bluegill sunfish)): > 13 mg/l : 96 h tic test D Test Guideline 203
		NOEC (Lepon Exposure time Test Type: sta Method: OECI	nis macrochirus (Bluegill sunfish)): 3.2 mg/l : 96 h tic test D Test Guideline 203
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				GLP: yes	
	Toxicity aquatic	to daphnia and other invertebrates	:	EC50 (Thamnoce Exposure time: 48 Method: OECD Te	phalus platyurus): 0.11 mg/l 3 h est Guideline 202
				EC50 (Daphnia m Exposure time: 48 Test Type: static t Method: OECD Te	agna (Water flea)): > 2.6 mg/l 3 h est est Guideline 202
				(Daphnia magna End point: Immob Method: OECD Te GLP: yes	(Water flea)): 13 mg/l ilization est Guideline 202
	Toxicity plants	to algae/aquatic	:	EC10 (Myriophyll Exposure time: 14 Method: OECD Te	um spicatum): 0.0071 mg/l l d est Guideline 201
				EC50 (Skeletone Exposure time: 72 Test Type: Growth Method: OECD Te	ma costatum (marine diatom)): 0.76 mg/l ? h n inhibition est Guideline 201
				EC10 (Skeletone Exposure time: 72 Test Type: Growth Method: OECD Te	ma costatum (marine diatom)): 0.24 mg/l ? h n inhibition est Guideline 201
				EyC50 (Pseudok mg/l Exposure time: 72 Method: OECD Te GLP: yes	irchneriella subcapitata (microalgae)): 6.5 ? h est Guideline 201
	M-Facto icity)	or (Acute aquatic tox-	:	1	
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 0.38 mg/l Exposure time: 32 Species: Pimepha Test Type: Early L Method: OECD Te GLP: yes	2 d Iles promelas (fathead minnow) Life-Stage est Guideline 210
				NOEC: 0.1 mg/l End point: reprodu Exposure time: 21 Species: Pimepha Test Type: flow-th Method: OECD Te GLP: yes	uction d ales promelas (fathead minnow) rough test est Guideline 229

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	Toxicity aquatic ic toxici	r to daphnia and other invertebrates (Chron- ty)	:	NOEC: 3.1 mg/l Exposure time: 21 Species: Daphnia Test Type: Static Method: OECD Te GLP: yes NOEC: 0.12 mg/l Exposure time: 28 Species: America Test Type: Reprod	d magna (Water flea) renewal test est Guideline 211 8 d mysis bahia (mysid shrimp) duction Test
	M-Factor toxicity)	or (Chronic aquatic	:	Method: OPPTS 8	350.1350
	Toxicity ganism	v to soil dwelling or- s	:	LC50: 607 mg/kg Species: Eisenia f Method: OECD Te GLP: yes	est Guideline 207
				Method: OECD Te Remarks: No sign tion.	est Guideline 217 ificant adverse effect on Carbon mineraliza-
				Method: OECD Te Remarks: No sign zation.	est Guideline 216 ificant adverse effect on Nitrogen minerali-
	Toxicity isms	to terrestrial organ-	:	LC50: > 5,000 mg Species: Anas pla Method: OECD Te	l/kg ityrhynchos (Mallard duck) est Guideline 205
				LOEC: 122 mg/kg End point: Reproc Species: Anas pla Method: OECD Te GLP: yes	luction Test Ityrhynchos (Mallard duck) est Guideline 206
				NOEC: 69.6 mg/k End point: Reproc Species: Anas pla Method: OECD Te GLP: yes	g luction Test ltyrhynchos (Mallard duck) est Guideline 206
				NOEL: 2,000 mg/ Species: Colinus Method: OPPTS 8	kg virginianus (Bobwhite quail) 350.2100
				NOEC: 77.7 mg/k End point: Reproc Species: Colinus	g luction Test virginianus (Bobwhite quail)

SAFETY DATA SHEET according to the Globally Harmonized System



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				Method: OECD T	est Guideline 206
				LOEC: 103 mg/kg End point: Reprod Species: Colinus Method: OECD T GLP: yes	g duction Test virginianus (Bobwhite quail) est Guideline 206
				LD50: > 100 µg/b End point: Acute Species: Apis me Method: OECD T	ee contact toxicity Ilifera (bees) est Guideline 214
				LD50: > 100 µg/b End point: Acute Species: Apis me Method: OECD T	ee oral toxicity Ilifera (bees) est Guideline 213
				LD50: 59 µg/bee Exposure time: 72 End point: honey Species: Apis me Method: OECD 23 GLP: yes	2 h bee larval toxicity test Illifera (bees) 37
				NOEC: ca. 9.5 µg Exposure time: 10 Species: Apis me GLP: yes Remarks: Dietary	g/bee D d Illifera (bees)
				NOED: 6.3 µg/be Exposure time: 22 Species: Apis me GLP: yes Remarks: Dietary	e 2 d Ilifera (bees)
	Ecotox	kicology Assessment			
	Acute a	aquatic toxicity	:	Very toxic to aqua	atic life.
	Chronic	c aquatic toxicity	:	Very toxic to aqua	atic life with long lasting effects.
	metrib	uzin (ISO):			
	Toxicity	/ to fish	:	LC50 (Oncorhyno Exposure time: 96	chus mykiss (rainbow trout)): 74.6 mg/l 6 h
				LC50 (Leuciscus Exposure time: 96	idus (Golden orfe)): 141.6 mg/l 6 h
				LC50 (Cyprinodo Exposure time: 96	n variegatus (sheepshead minnow)): 85 mg/l 6 h

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	Toxicity aquatic	to daphnia and other	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 49.6 mg/l
	Toxicity plants	v to algae/aquatic	:	EC50 (Desmodes Exposure time: 72	smus subspicatus (green algae)): 0.022 mg/l ? h
	M-Facto icity)	or (Acute aquatic tox-	:	10	
	Toxicity	to microorganisms	:	EC50 (activated s	ludge): 761 mg/l
	M-Facto toxicity)	or (Chronic aquatic	:	10	
	Toxicity ganism	r to soil dwelling or- s	:	LC50: 331.8 mg/k Species: Eisenia f	g etida (earthworms)
	Toxicity isms	to terrestrial organ-	:	LD50: 164 mg/kg Species: Colinus	<i>v</i> irginianus (Bobwhite quail)
				LD50: 460 - 680 n Species: Anas pla	ng/kg tyrhynchos (Mallard duck)
				LD50: 35 µg/bee Species: Apis mel	lifera (bees)
	Talc (M	lg3H2(SiO3)4):			
	Toxicity	to fish	:	LC50 (Fish): 89,58 Exposure time: 96 Method: QSAR	31.016 mg/l 5 h
	Toxicity aquatic	to daphnia and other invertebrates	:	LC50 (Daphnia m Exposure time: 48 Method: QSAR	agna (Water flea)): 36,812.359 mg/l 3 h
	Toxicity plants	v to algae/aquatic	:	NOEC (green alg Exposure time: 30 Method: QSAR	ae): 918.089 mg/l) d
				EC50 (green alga Exposure time: 96 Method: QSAR	ae): 7,202.7 mg/l 5 h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC: 1,412.648 Exposure time: 30 Species: Fish Method: QSAR	mg/l) d
	Toxicity aquatic ic toxici	to daphnia and other invertebrates (Chron- ty)	:	NOEC: 1,459.798 Exposure time: 30 Species: Daphnia Method: QSAR	mg/l) d

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Residues, petroleum, catalytic reformer fractionator, sulfonated, polymers with formaldehyde, sodium salts:

Toxicity to fish :	LC50 (Zebra fish): > 10 - 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Remarks: Based on data from similar materials
Toxicity to algae/aquatic : plants	EC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
	EC10 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	EC10: > 10 - 100 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211 Remarks: Based on data from similar materials
Sulfuric acid, mono-C10-16-alk	yl esters, sodium salts:
Toxicity to fish :	LC50 (Fish): 3.6 mg/l Exposure time: 96 h
Toxicity to daphnia and other : aquatic invertebrates	EC50 (Ceriodaphnia dubia (water flea)): 1.18 - 2.21 mg/l Exposure time: 48 h
Toxicity to algae/aquatic : plants	EC50 (algae): 60 mg/l Exposure time: 72 h
Ecotoxicology Assessment	
Chronic aquatic toxicity :	Harmful to aquatic life with long lasting effects.
Persistence and degradability	
Components:	
Bixlozone:	
Biodegradability :	Result: Not readily biodegradable.

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Vers 1.0	sion	Revision Date: 06.06.2024	SI 50	DS Number: 002903	Date of last issue: - Date of first issue: 06.06.2024
	Stability	r in water	:	Hydrolysis: < 5 % Method: OECD 1 GLP: yes Remarks: Does r	6 at 25 ℃(30 d) Test Guideline 111 not readily hydrolyze
	Photode	egradation	:	Method: OECD 1 Remarks: Decom	Fest Guideline 316 aposes slowly in contact with light.
	metribu	ızin (ISO):			
	Biodegr	adability	:	Result: Not readi	ly biodegradable.
	Stability	in water	:	Degradation half	life (DT50): 7 d
	Residu hyde, s	es, petroleum, catal odium salts:	ytic	reformer fraction	ator, sulfonated, polymers with formalde-
	Biodegr	adability	:	Result: Not readi Remarks: Based	ly biodegradable. on data from similar materials
	Sulfuri	c acid, mono-C10-16	-alk	vl esters, sodium	salts:
	Biodegr	adability	:	Result: Readily b	viodegradable.
	Bioacc	umulative potential			
	<u>Compo</u>	nents:			
	Bixlozo	one:			
	Bioaccu	Imulation	:	Species: Lepomi Bioconcentration Method: OECD 1 Remarks: Bioacc	s macrochirus (Bluegill sunfish) factor (BCF): 100 Fest Guideline 305 cumulation is unlikely.
	Partition	n coefficient: n-	:	log Pow: 3.3 (20	°C)
	octanol	/water		pH: 4 - 9 Method: OECD 1	Fest Guideline 107
	metribu	ızin (ISO):			
	Bioaccu	imulation	:	Remarks: Does r	not bioaccumulate.
	Partition octanol	n coefficient: n- /water	:	log Pow: 1.6	
	Talc (M	g3H2(SiO3)4):			
	Bioaccu	imulation	:	Bioconcentration Method: QSAR	factor (BCF): 3.16
	Partition octanol	n coefficient: n- /water	:	log Pow: -9.4 (25 pH: 7	5 °C)
				wethod: QSAR	

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	Mohili	ity in soil			
	Comp	ononts:			
	<u>comp</u>	onents.			
	Distrib menta	one: ution among environ- l compartments	:	Remarks: Modera	ately mobile in soil
	metrik	ouzin (ISO):			
	Distrib menta	ution among environ- l compartments	:	Koc: 24 - 106 ml/ Remarks: Highly	g, log Koc: > 1.38 mobile in soils
	Sulfur	ic acid, mono-C10-16	alk	yl esters, sodium	salts:
	Distrib menta	ution among environ- l compartments	:	Koc: 196.1 ml/g, l Remarks: Mobile	og Koc: 2.29 in soils
	Other	adverse effects			
	<u>Produ</u>	ict:			
	Additic matior	onal ecological infor- า	:	An environmental unprofessional ha Toxic to aquatic li Very toxic to aqua	hazard cannot be excluded in the event of andling or disposal. fe. atic life with long lasting effects.
13. I	DISPO	SAL CONSIDERATION	IS		
	Dispo	sal methods			
	Waste	from residues	:	The product shou courses or the so Do not contamina cal or used conta Send to a license	ld not be allowed to enter drains, water il. ite ponds, waterways or ditches with chemi- iner. d waste management company.
	Contai	minated packaging	:	Empty remaining Dispose of as un Do not re-use em	contents. used product. pty containers.
14.	TRANS	PORT INFORMATION			
	Intern	ational Regulations			
	UNRT	DG			

UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(Bixlozone, Metribuzin)
Class	:	9

according to the Globally Harmonized System



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Subsidiary risk Packing group Labels Environmentally hazardous		:	ENVIRONM. III 9 (ENVIRONM.) yes	
IATA-DGR UN/ID No. Proper shipping name		:	UN 3077 Environmentally h (Bixlozone, Metri	azardous substance, solid, n.o.s. buzin)
Class Packing group Labels Packing instruction (cargo aircraft)		: :	9 III Miscellaneous 956	
Packin ger air Enviro	g instruction (passen- craft) nmentally hazardous	:	956 yes	
IMDG- UN nu Proper	Code mber shipping name	:	UN 3077 ENVIRONMENTA N.O.S. (Biylozopo, Motrik	ALLY HAZARDOUS SUBSTANCE, SOLID,
Class Packin Labels EmS C Marine	g group Code e pollutant	: : : : : : : : : : : : : : : : : : : :	9 III 9 F-A, S-F yes	Juzin)

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

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.

15. REGULATORY INFORMATION

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

The ingredients of this product are reported in the following inventories:				
TCSI	:	Not in compliance with the inventory		
TSCA	:	Product contains substance(s) not listed on TSCA inventory.		
AIIC	:	Not in compliance with the inventory		
DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.		

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			Bixlozone metribuzin (ISO)	
ENCS		:	Not in compliance	with the inventory
ISHL		:	Not in compliance	with the inventory
KECI		:	Not in compliance	with the inventory
PICCS		:	Not in compliance	with the inventory
IECSC		:	Not in compliance	with the inventory
NZIoC		:	Not in compliance	with the inventory
TECI		:	Not in compliance	with the inventory

16. OTHER INFORMATION

Revision Date	:	06.06.2024
Date format	:	dd.mm.yyyy

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 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, Bioaccumu-



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lative 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

Disclaimer

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