

Version 2.1	Revision Date: 16.02.2022	SDS Number: 50002083	Date of last issue: - Date of first issue: 19.02.2019
SECTION	1: Identification of	the substance/m	ixture and of the company/undertaking
1.1 <u>Produ</u>	ct identifier		
Produ	uct name	Authority 480	Herbicide
<u>Other</u>	r means of identificati	ion	
Produ	uct code	50002083	
Use o	ant identified uses of of the Sub- e/Mixture	the substance or m : Herbicide	ixture and uses advised against
Recor on us	mmended restrictions e	: Use as recom	mended by the label.
1.3 Details	s of the supplier of th	e safety data sheet	
<u>Supp</u>	lier Address	West End Off	gistration Number: 1988/001451/07 ice Park, Building C e & Hall Street
		E-mail addres mation)	s: SDS-Info@fmc.com (E-Mail General Infor-
1.4 <u>Eme</u>	rgency telephone		spill or accident emergencies, call: 0-800-983-611 (CHEMTREC)
			gency: gency or poisoning contact: Griffon Poison Info e (24 hrs) - +27-(0)-82-446-8946
SECTION	V 2: Hazards identifi	cation	
2.1 Classi	fication of the substa	nce or mixture	

Classification (REGULATION (EC) No 1272/2008)							
Acute toxicity, Category 4	H332: Harmful if inhaled.						
Reproductive toxicity, Category 2	H361: Suspected of damaging fertility or the un-						





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					born child.
		c target organ toxicity ire, Category 2	- re	peated	H373: May cause damage to organs through pro- longed or repeated exposure.
	Long-te egory ?	erm (chronic) aquatic h 1	naza	ard, Cat-	H410: Very toxic to aquatic life with long lasting effects.
2.2	Label e	lements			
		ng (REGULATION (EC	C) I :	No 1272/200	
	Signal	Word	:	Warning	
	Hazaro	Statements	:	H361 Su H373 Ma repeated e	rmful if inhaled. spected of damaging fertility or the unborn child. y cause damage to organs through prolonged or xposure. ry toxic to aquatic life with long lasting effects.
	Pž Pž Pž tic Ri Ri Ai C		P260 Dc P273 Av P280 W tion/ face p Response P304 + P3 air and kee CENTER/	tain special instructions before use. not breathe mist or vapors. oid release to the environment. ear protective gloves/ protective clothing/ eye protec- rotection/ hearing protection.	

Hazardous ingredients which must be listed on the label: Sulfentrazone

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

CAS-No. EC-No.	Classification	Concentration (% w/w)
Index-No.		



>= 30 - < 50
;

SECTION 4: First aid measures

media

4.1 Description of 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	:	Consult a physician after significant exposure. If unconscious, place in recovery position and seek medical advice.					
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	:	Induce vomiting immediately and call a physician. 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.					
4.2 Most important symptoms ar	າd e	effects, both acute and delaved					
Risks	:	Harmful if inhaled. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.					
4.3 Indication of any immediate	mec	lical attention and special treatment needed					
Treatment	:	Treat symptomatically.					
SECTION 5: Firefighting meas	sure	es					
5.1 Extinguishing media							
Suitable extinguishing media	:	Dry chemical, CO2, water spray or regular foam.					
Unsuitable extinguishing	:	Do not spread spilled material with high-pressure water					

streams.



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5.2	Special	hazards arising from	the	substance or mix	xture
	Specific fighting	c hazards during fire	:	Do not allow run-o courses.	off from fire fighting to enter drains or water
	Hazard ucts	ous combustion prod-	:	Carbon oxides Nitrogen oxides (I Halogenated com Sulfur oxides	
5.3	Advice	for firefighters			
	Special for fire-	protective equipment fighters	:	Firefighters should breathing apparat	d wear protective clothing and self-contained rus.
	Specific ods	c extinguishing meth-	:	SO.	ged containers from fire area if it is safe to do y to cool fully closed containers.
	Further	information	:	must not be disch Fire residues and	ated fire extinguishing water separately. This arged into drains. contaminated fire extinguishing water must accordance with local regulations.
				Use extinguishing	re for chemical fires. measures that are appropriate to local cir- he surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions :	Evacuate personnel to safe areas. Use personal protective equipment. If it can be safely done, stop the leak. Do not touch or walk through the spilled material. Ensure adequate ventilation. Never return spills in original containers for re-use. For disposal considerations see section 13.
6.2 Environmental precautions	
Environmental precautions :	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
6.3 Methods and material for conta	ainment and cleaning up
Methods for 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.
6.4 Reference to other sections	
	See sections: 7, 8, 11, 12 and 13.



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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
		General industrial hygiene practice. Avoid contact with skin, eyes and clothing. Do not inhale aerosol.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re- sealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Further information on stor- age stability	:	No decomposition if stored and applied as directed.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of expo- sure	Potential health ef- fects	Value
			Systemic effects	0.014 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
	Water	1.9 µg/l



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8.2 Expo	sure controls				
Pers	onal protective equipn	nent	:		
Eye protection		:	Eye wash bottle with pure water Tightly fitting safety goggles		
Hand protection Material		:	Protective gloves		
Remarks		:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.		
Skin and body protection		:	Impervious clothing Choose body protection according to the amount and conce tration of the dangerous substance at the work place.		
			Protective suit		
Prote	ective measures	:	Plan first aid action	on before beginning work with this product.	

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	liquid
Color	:	off-white
Odor	:	alcohol-like
Odor Threshold	:	No data available
рН	:	5.3 - 6
Melting point/range	:	123 °C
Boiling point/boiling range	:	No data available
Flash point	:	> 94 °C Method: closed cup
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	0.0000001 Pa
Relative density	:	1.206 (20 °C)
Density	:	No data available
Solubility(ies)		



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	Wat	er solubility	:	dispersible	
	Solu	ubility in other solvents	:	186 g/l Solvent: acetonit	rile
	Partitio octano	n coefficient: n- l/water	:	log Pow: 1.49 pH: 5	
	Autoigr	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
,	Viscosi Visc	ty cosity, dynamic	:	No data available	9
	Viso	cosity, kinematic	:	No data available	9
	Explosi	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	Non-oxidizing	
)ther ir Self-igr	nformation hition	:	No data available	e

SECTION 10: Stability and reactivity

10.1 Reactivity

	No decomposition if stored and applied as directed.
10.2 Chemical stability	
	No decomposition if stored and applied as directed.
10.3 Possibility of hazardous re	eactions
Hazardous reactions	: No decomposition if stored and applied as directed.
10.4 Conditions to avoid	
Conditions to avoid	: Avoid extreme temperatures Avoid formation of aerosol.
10.5 Incompatible materials	
Materials to avoid	: Avoid strong acids, bases, and oxidizers.
10.6 Hazardous decomposition	products

10.6 Hazardous decomposition products

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Harmful if inhaled.



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Produ	ıct:			
	oral toxicity	A	D50 (Rat): 2 ssessment: ingle ingestio	The component/mixture is minimally toxic after
Acute	inhalation toxicity	E T A		e: 4 h ere: dust/mist The component/mixture is moderately toxic af
Acute	dermal toxicity	A		2,000 mg/kg The component/mixture is minimally toxic afte with skin.
Comp	oonents:			
Sulfe	ntrazone:			
Acute	oral toxicity	: L	D50 (Rat, m	ale): 3,034 mg/kg
		L	D50 (Rat, fe	male): 2,689 mg/kg
		L	D50 (Rat, m	ale and female): 2,855 mg/kg
Acute	inhalation toxicity	E T A		
Acute	dermal toxicity	: L	D50 (Rabbit	, male and female): > 2,000 mg/kg
Skin d	corrosion/irritation			
Not cl	assified based on av	ailable in	ormation.	
<u>Produ</u>	<u>ict:</u>			
Resul	t	: N	lo skin irritati	on
<u>Comp</u>	oonents:			
Sulfe	ntrazone:			
Speci			abbit	
Metho Resul			DECD Test G Io skin irritati	uideline 404 on
Serio	us eye damage/eye	irritation		
	assified based on av			
<u>Produ</u>	<u>ict:</u>			
Resul		: N	lo eye irritatio	20



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Comp	oonents:						
Sulfer	ntrazone:						
Specie	es	: Rabbit					
Metho		: OECD	est Guideline 405				
Result	t	: No eye	irritation				
Respi	ratory or skin sensi	tization					
Skin s	sensitization						
Not cla	assified based on ava	ilable informati	on.				
Resni	ratory sensitization						
-	assified based on ava	ilable informati	on				
<u>Produ</u> Result			in sensitizer.				
Result	L	. NOLASI	in sensitzer.				
<u>Comp</u>	oonents:						
Sulfer	ntrazone:						
Test T		: Maximiz	ration Test				
Specie			Guinea pig				
Metho			OECD Test Guideline 406				
Result	t	: Does no	ot cause skin sensitization.				
	cell mutagenicity						
	assified based on ava	ilable informati	on.				
<u>Comp</u>	oonents:						
Sulfer	ntrazone:						
Genot	oxicity in vitro		be: Ames test				
			ic activation: with and without metabolic activat negative				
		Test Ty	be: Mouse lymphoma assay				
		Test sys	stem: mouse lymphoma cells				
			ic activation: Metabolic activation				
		Result:	negative				
Genot	oxicity in vivo		pe: Micronucleus test				
			: Mouse				
			ion Route: Intraperitoneal injection negative				
Germ sessm	cell mutagenicity- As	· : Animal	esting did not show any mutagenic effects.				
Carci	nogenicity						
	assified based on ava	ilahla informati	on				



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	Comp	onents:			
	Specie Applica	ation Route ure time	:	Rat, male and fer Ingestion 2 Years negative	nale
		s ation Route ure time	: : :	Mouse, male and Ingestion 18 month(s) negative	female
	Carcin ment	ogenicity - Assess-	:	Animal testing dic	I not show any carcinogenic effects.
	Suspect	ductive toxicity - As-	:y oi :	Some evidence o	f adverse effects on sexual function and development, based on animal experiments.
	Comp	onents:			
	Sulfen	trazone:			
	Effects	on fertility	:		e and female : Oral Parent: NOEL: 13.7 - 16.2 mg/kg bw/day F1: NOEL: 13.7 - 16.2 mg/kg bw/day
	Effects	on fetal development	:	Species: Rat Application Route General Toxicity I	Maternal: NOEL: 25 mg/kg bw/day oxicity: NOEL: 10 mg/kg bw/day
		single exposure Issified based on availa	ıble	information.	
	Comp	onents:			
	Sulfen Remar	trazone: ks	:	No significant adv	verse effects were reported

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.



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Comp	oonents:		
Targe	n trazone: t Organs ssment		etic system Ince or mixture is classified as specific target org peated exposure, category 2.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Sulfe	ntrazone:		
Expos		: Rat, male a 65.8 - 78.1 : Oral - feed : 90-days : hematopoie	mg/kg
Expos		: Mouse, ma : 60 - 79.8 m : Oral - feed : 90-days : hematopoie	
-	ation toxicity	ilable information	
	assified based on ava ponents:	liable information.	
Sulfe The s	n trazone: ubstance does not ha	ve properties asso	ciated with aspiration hazard potential.
	ological effects		
Comp	oonents:		
Sulfe Rema	n trazone: rks	: No neuroto	xicity observed in animal studies.
Furth	er information		
<u>Prodι</u> Rema		: No data av	ailable

12.1 Toxicity

Product:

Toxicity to fish

LC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l Exposure time: 96 h

:



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		to daphnia and other invertebrates	:	LC50 (Daphnia magna (Water flea)): 60.4 mg/l Exposure time: 48 h		
	oxicity ants	to algae/aquatic	:	EC50 (Pseudokiro mg/l Exposure time: 12	chneriella subcapitata (green algae)): 0.031 20 h	
				EC50 (Lemna gibl Exposure time: 14	ba (duckweed)): 0.0288 mg/l ł d	
				NOEC (Lemna git Exposure time: 14	bba (duckweed)): 0.019 mg/l ł d	
To icit		to fish (Chronic tox-	:	NOEC: 2.95 mg/l Exposure time: 99 Species: Oncorhy) d nchus mykiss (rainbow trout)	
aq		to daphnia and other invertebrates (Chron- ty)	:	NOEC: 0.2 mg/l Exposure time: 21 Species: Daphnia	l d magna (Water flea)	
To isn	-	to terrestrial organ-	:	LD50: > 5,620 mg Species: Anas pla	y/kg atyrhynchos (Mallard duck)	
				LD50: > 25 µg/beo Species: Apis mel Remarks: Oral		
				LD50: > 200 µg/bo Species: Apis mel Remarks: Contact	llifera (bees)	
<u>Cc</u>	ompo	nents:				
		razone: to fish	:	LC50 (Oncorhync Exposure time: 96	hus mykiss (rainbow trout)): > 120 mg/l እ h	
		to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 60.4 mg/l 3 h	
	oxicity ants	to algae/aquatic	:	EC50 (algae): 32. Exposure time: 72		
				EC50 (Pseudokiro mg/l Exposure time: 12	chneriella subcapitata (green algae)): 0.031 20 h	
				EC50 (Navicula p Exposure time: 12	elliculosa (Diatom)): 0.042 mg/l 20 h	
				EC50 (Lemna gibl Exposure time: 14	ba (duckweed)): 0.0288 mg/l ł d	
То	oxicity	to fish (Chronic tox-	:	NOEC: 5.9 mg/l		



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icity)			Exposure time: 2 Species: Fish	1 d
	ity to daphnia and other ic invertebrates (Chron- icity)	:	NOEC: 0.51 mg/l Exposure time: 2 Species: Crustac	1 d
Toxic isms	ity to terrestrial organ-	:	, · · · ·	g/kg atyrhynchos (Mallard duck)
			LD50: > 25 µg/be Species: Apis me Remarks: Oral	
			LD50: > 200 µg/b Species: Apis me Remarks: Contac	llifera (bees)
12.2 Persi	stence and degradabil	ity		
Produ	uct:			
Biode	gradability	:	Result: Not readil Exposure time: 1	
Com	oonents:			
Sulfe	ntrazone:			
Biode	gradability	:	Result: Not readil	y biodegradable.
Stabil	ity in water	:	Degradation half	life (DT50): 2.22 - 9.56 h
12.3 Bioad	ccumulative potential			
Produ	uct:			
Bioac	cumulation	:	Remarks: Bioacc	umulation is unlikely.
Com	oonents:			
Sulfe	ntrazone:			
Bioac	cumulation	:		umulation is unlikely. octanol-water partition coefficient.
	ion coefficient: n- ol/water	:	Remarks: No data	a available
12.4 Mobi	lity in soil			
Produ	uct:			
Distrik	oution among environ- al compartments	:	Remarks: Mobile	in soils



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	Compor	nents:			
		azone: on among environ- ompartments	:	Remarks: Mobile	in soils
12.5	Results	of PBT and vPvB as	sses	ssment	
	<u>Product</u> Assessm		:	to be either persis	ixture contains no components considered tent, bioaccumulative and toxic (PBT), or d very bioaccumulative (vPvB) at levels of
12.6	Other ad	dverse effects			
	Product	<u>:</u>			
	Endocrin tial	e disrupting poten-	:	ered to have endo REACH Article 57	xture does not contain components consid- ocrine disrupting properties according to '(f) or Commission Delegated regulation r Commission Regulation (EU) 2018/605 at higher.
	Additiona mation	al ecological infor-	:	unprofessional ha	hazard cannot be excluded in the event of ndling or disposal. tic life with long lasting effects.

SECTION 13: Disposal considerations

Product	The product should not be allowed to enter drains courses or the soil. Do not contaminate ponds, waterways or ditches cal or used container. Send to a licensed waste management company.	with chemi-
Contaminated packaging	Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Empty containers should be taken to an approved dling site for recycling or disposal.	waste han-

SECTION 14: Transport information

14.1 UN number		
IMDG	:	UN 3082
ΙΑΤΑ	:	UN 3082

14.2 UN proper shipping name



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	IMDG		:	ENVIRONMENT N.O.S. (Sulfentrazone) ()	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	ΙΑΤΑ		:	Environmentally I (Sulfentrazone) (Sulfentrazone)	hazardous substance, liquid, n.o.s.
14.3	8 Trans	port hazard class(es)			
	IMDG		:	9	
	ΙΑΤΑ		:	9	
14.4	l Packii	ng group			
	IMDG Packin Labels EmS C		:	III 9 F-A, S-F	
	Packin aircraft	Cargo) ig instruction (cargo t) ig instruction (LQ)	:	964 Y964	
		ig group	:	III Miscellaneous	
		Passenger) g instruction (passen- craft)	:	964	
		g instruction (LQ) g group	:	Y964 III Miscellaneous	
14.5	5 Enviro	onmental hazards			
	IMDG Marine	pollutant	:	yes	

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 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



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TSCA		:	Product contains	substance(s) not listed on TSCA inventory.
AIIC		:	Not in compliance	e with the inventory
DSL		:	This product cont on the Canadian	ains the following components that are not DSL nor NDSL.
				5'-(4-DIFLUOROMETHYL-4,5-DIHYDRO-3- -1H-1,2,4-TRIAZOL-1- ILFONANILIDE
ENCS	i	:	Not in compliance	e with the inventory
ISHL		:	Not in compliance	e with the inventory
KECI		:	Not in compliance	e with the inventory
PICCS	3	:	Not in compliance	e with the inventory
IECSC		:	Not in compliance	e with the inventory
NZIoC	;	:	Not in compliance	e with the inventory
TECI		:	Not in compliance	e with the inventory

15.2 Chemical Safety Assessment

SECTION 16: Other information

Full text of H-Statement	5			
H373	: May cause damage to organs through prolonged or repeated exposure.			
H411	: Toxic to aquatic life with long lasting effects.			
Full text of other abbreviations				
Aquatic Chronic STOT RE	 Long-term (chronic) aquatic hazard Specific target organ toxicity - repeated exposure 			

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA -European Chemicals Agency; EC-Number - European Community number; 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; 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;



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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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Other information

Classification of the mixture:		Classification procedure:	
Acute Tox. 4	H332	Based on product data or assessment	
Repr. 2	H361	Based on product data or assessment	
STOT RE 2	H373	Calculation method	
Aquatic Chronic 1	H410	Based on product data or assessment	

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