

Vers 9.0	sion	Revision Date: 06.04.2024		0S Number: 583-00025	Date of last issue: 26.09.2023 Date of first issue: 03.11.2014
SEC		1: Identification of	the	substance/mixtu	ure and of the company/undertaking
1.1	Produc t Trade r	t identifier name	:	Temozolomide Inj	ection Formulation
1.2	Use of	nt identified uses of t the Sub- /Mixture	he s :		ure and uses advised against
	Recom on use	mended restrictions	:	Not applicable	
1.3 Details of the supplier of the Company			saf :	MSD 117 16th Road	use, Midrand, South Africa
	Teleph	one	:	+27 11 655 3000	
		address of person sible for the SDS	:	EHSDATASTEW	ARD@msd.com

1.4 Emergency telephone number

+1-908-423-6000

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 3	H301: Toxic if swallowed.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Germ cell mutagenicity, Category 2	H341: Suspected of causing genetic defects.
Carcinogenicity, Category 2	H351: Suspected of causing cancer.
Reproductive toxicity, Category 1B	H360FD: May damage fertility. May damage the unborn child.
Specific target organ toxicity - repeated	H373: May cause damage to organs through pro-

longed or repeated exposure.

Specific target organ toxicity - repeated exposure, Category 2

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word



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Hazard statements		H319 Caus H341 Susp H351 Susp H360FD child.	c if swallowed. ses serious eye irritation. bected of causing genetic defects. bected of causing cancer. May damage fertility. May damage the unborn cause damage to organs through prolonged or bosure.
Precautionary statements		P260 Do r	in special instructions before use. ot breathe dust. r protective gloves/ protective clothing/ eye protec- tection.

Hazardous components which must be listed on the label:

Temozolomide

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.

Contact with dust can cause mechanical irritation or drying of the skin.

May form explosive dust-air mixture during processing, handling or other means.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Citric acid	77-92-9 201-069-1 607-750-00-3	Eye Irrit. 2; H319 STOT SE 3; H335	>= 10 - < 20
Temozolomide	85622-93-1	Acute Tox. 2; H300 Muta. 2; H341 Carc. 2; H351 Repr. 1B; H360FD STOT RE 1; H372 (Bone marrow, thymus gland,	>= 1 - < 10



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			Lymph nodes, spleen)				
Fo	r explanation of abbrevia	tions see sectior	n 16.				
SECTI	ON 4: First aid measu	ires					
4.1 Des	scription of first aid mea	isures					
	eneral advice	: In the cas vice imm	se of accident or if you feel unwell, seek medical ad- ediately. mptoms persist or in all cases of doubt seek medical				
Pr	otection of first-aiders	and use t	responders should pay attention to self-protection, he recommended personal protective equipment potential for exposure exists (see section 8).				
lf i	nhaled		, remove to fresh air. cal attention.				
In	case of skin contact	of water. Remove Get medi Wash clo	f contact, immediately flush skin with soap and plenty contaminated clothing and shoes. cal attention. thing before reuse. ily clean shoes before reuse.				
In	case of eye contact	for at leas If easy to	f contact, immediately flush eyes with plenty of water st 15 minutes. do, remove contact lens, if worn. cal attention.				
lf s	swallowed	Call a phy Rinse mo	ved, DO NOT induce vomiting. ysician or poison control centre immediately. buth thoroughly with water. re anything by mouth to an unconscious person.				
4 2 Mo	st important symptoms	and effects bo	th acute and delayed				
	sks	: Toxic if s Causes s Suspecte Suspecte May dam	wallowed. erious eye irritation. d of causing genetic defects. d of causing cancer. age fertility. May damage the unborn child. se damage to organs through prolonged or repeated				
		Contact w the skin.	vith dust can cause mechanical irritation or drying of				
4.3 Ind	ication of anv immediat	e medical atten	tion and special treatment needed				
	Treatment : Treat symptomatically and supportively.						



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SECTION	N 5: Firefighting meas	sure	S	
5 1 Evtina	wiching modio			
-	Juishing media ble extinguishing media		Water spray Alcohol-resistar Carbon dioxide Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
5.2 Specia	al hazards arising from	the	substance or n	nixture
Spec fightir	ific hazards during fire- ng		concentrations, potential dust ex	g dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a xplosion hazard. nbustion products may be a hazard to health.
Haza ucts	rdous combustion prod-		Carbon oxides Nitrogen oxides Metal oxides Chlorine compo	
5.3 Advic	e for firefighters			
	ial protective equipment efighters			ire, wear self-contained breathing apparatus. otective equipment.
Speci ods	ific extinguishing meth-		cumstances and Use water spray	ng measures that are appropriate to local cir- d the surrounding environment. y to cool unopened containers. aged containers from fire area if it is safe to d
SECTION	N 6: Accidental releas			
	• 0. Accidental releas	50 m	casures	
	•		• •	emergency procedures
Perso	onal precautions		Follow safe han	otective equipment. dling advice (see section 7) and personal pro- nt recommendations (see section 8).
6.2 Enviro	onmental precautions			
Envir	onmental precautions		Prevent further Retain and disp	o the environment. leakage or spillage if safe to do so. ose of contaminated wash water. s should be advised if significant spillages lined.
6.3 Metho	ds and material for co	ntain	ment and clear	ning up
	ods for cleaning up	:		cuum up spillage and collect in suitable con-
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		with compress Dust deposits es, as these m leased into the Local or nation posal of this m employed in th mine which re Sections 13 an	al of dust in the air (i.e., clearing dust surfaces sed air). should not be allowed to accumulate on surfac- nay form an explosive mixture if they are re- e atmosphere in sufficient concentration. nal regulations may apply to releases and dis- naterial, as well as those materials and items ne cleanup of releases. You will need to deter- gulations are applicable. nd 15 of this SDS provide information regarding r national requirements.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

Technical measures	:	Static electricity may accumulate and ignite suspended dust causing an explosion.
		Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.
Advice on safe handling	:	Do not get on skin or clothing.
		Do not breathe dust.
		Do not swallow.
		Do not get in 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.
		Minimize dust generation and accumulation. Keep container closed when not in use.
		Keep away from heat and sources of ignition.
		Take precautionary measures against static discharges.
		Do not eat, drink or smoke when using this product.
		Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye
,,,		flushing systems and safety showers close to the working
		place. When using do not eat, drink or smoke. Wash contami- nated clothing before re-use.
		The effective operation of a facility should include review of
		engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures,
		industrial hygiene monitoring, medical surveillance and the use of administrative controls.

7.1 Precautions for safe handling

7.2 Conditions for safe storage, including any incompatibilities	2 Conditions for safe storage, including	g any incompatibilities
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Requirements for storage : Keep in properly labelled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations.



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Advic	e on common storage	:	Strong oxidizing	stances and mixtures
•	f ic end use(s) fic use(s)	:	No data available	9

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Temozolomide	85622-93-1	TWA	0.1 ug/m3 (OEB 5)	Internal
		Wipe limit	1 µg/100 cm2	Internal

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

Substance name	End Use	Exposure routes	Potential health ef- fects	Value
Sodium chloride	Workers	Inhalation	Long-term systemic effects	2068,62 mg/m3
	Workers	Inhalation	Acute systemic ef- fects	2068,62 mg/m3
	Workers	Skin contact	Long-term systemic effects	295,52 mg/kg bw/day
	Workers	Skin contact	Acute systemic ef- fects	295,52 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	443,28 mg/m3
	Consumers	Inhalation	Acute systemic ef- fects	443,28 mg/m3
	Consumers	Skin contact	Long-term systemic effects	126,65 mg/kg bw/day
	Consumers	Skin contact	Acute systemic ef- fects	126,65 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	126,65 mg/kg bw/day
	Consumers	Ingestion	Acute systemic ef- fects	126,65 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
Citric acid	Fresh water	0,44 mg/l
	Marine water	0,044 mg/l
	Sewage treatment plant	1000 mg/l
	Fresh water sediment	34,6 mg/kg dry



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		weight (d.w.)
	Marine sediment	3,46 mg/kg dry weight (d.w.)
	Soil	33,1 mg/kg dry weight (d.w.)
Sodium chloride	Fresh water	5 mg/l
	Sewage treatment plant	500 mg/l
	Soil	4,86 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace.

All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.

No open handling permitted.

Totally enclosed processes and materials transport systems are required.

Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.

Personal protective equipment

Eye/face protection	:	Wear safety glasses with side shields or goggles. If the work environment or activity involves dusty conditions, mists or aerosols, wear the appropriate goggles. Wear a faceshield or other full face protection if there is a potential for direct contact to the face with dusts, mists, or aerosols.
Material	:	Chemical-resistant gloves
Remarks Skin and body protection	:	Consider double gloving. Work uniform or laboratory coat. Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Use appropriate degowning techniques to remove potentially contaminated clothing.
Respiratory protection Filter type	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: powder
Colour	: white
Odour	: No data available
Odour Threshold	: No data available
рH	: No data available



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	Melting	point/freezing point	:	No data available	9
		oiling point and boiling	:	No data available	e
	range Flash p	point	:	Not applicable	
	Evaporation rate		:	Not applicable	
	Flamma	ability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- eans.
		explosion limit / Upper bility limit	:	No data available	e
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density	/	:	No data available	9
	Partitio octanol	er solubility n coefficient: n- /water	:	soluble Not applicable	
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidiziı	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2	Other ir	formation			
	Flamma	ability (liquids)	:	No data available	9
	Molecu	lar weight	:	No data available	9
	Particle	e size	:	No data available	9

SECTION 10: Stability and reactivity

10.1 Reactivity

Not classified as a reactivity hazard.

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10.2 Cher	nical stability			
Stable	e under normal conditi	ions.		
10.3 Poss	ibility of hazardous i	reactio	ons	
Haza	rdous reactions	:	dling or other	losive dust-air mixture during processing, han- means. n strong oxidizing agents.
10.4 Conc	ditions to avoid			
Cond	itions to avoid	:	Heat, flames Avoid dust for	
10.5 Incor	mpatible materials			
Mater	rials to avoid	:	Oxidizing age	nts
10 6 Haza	rdous decompositio	n nroc	lucts	
	azardous decompositio	-		1
	N 11: Toxicological	•		
	mation on toxicologi nation on likely routes		ects Inhalation	
expos		01.	Skin contact Ingestion	
		01.	Skin contact	
expos Acute		01.	Skin contact Ingestion	
expos Acute	sure e toxicity if swallowed.	01.	Skin contact Ingestion	
expos Acute Toxic <u>Prod</u> e	sure e toxicity if swallowed.	:	Skin contact Ingestion Eye contact	estimate: 243,59 mg/kg lation method
expos Acute Toxic <u>Prod</u> Acute	sure e toxicity if swallowed. uct:	:	Skin contact Ingestion Eye contact Acute toxicity of	
expos Acute Toxic <u>Prode</u> Acute	e toxicity if swallowed. <u>uct:</u> e oral toxicity ponents:	:	Skin contact Ingestion Eye contact Acute toxicity of	
expos Acute Toxic <u>Produ</u> Acute <u>Com</u>	e toxicity if swallowed. <u>uct:</u> e oral toxicity	:	Skin contact Ingestion Eye contact Acute toxicity of	lation method
Acute Toxic <u>Produ</u> Acute Comp Acute	e toxicity if swallowed. <u>uct:</u> o oral toxicity ponents: c acid:	:	Skin contact Ingestion Eye contact Acute toxicity of Method: Calcu LD50 (Mouse) LD50 (Rat): > Method: OECI	: 5.400 mg/kg
Acute Toxic <u>Produ</u> Acute Com Citric Acute	e toxicity if swallowed. <u>uct:</u> e oral toxicity <u>ponents:</u> e acid: e oral toxicity	:	Skin contact Ingestion Eye contact Acute toxicity of Method: Calcu LD50 (Mouse) LD50 (Rat): > Method: OECI Assessment: T	ilation method : 5.400 mg/kg 2.000 mg/kg D Test Guideline 402
expos Acute Toxic Produ Acute Acute Acute Acute	e toxicity if swallowed. <u>uct:</u> e oral toxicity ponents: c acid: e oral toxicity e dermal toxicity	:	Skin contact Ingestion Eye contact Acute toxicity of Method: Calcu LD50 (Mouse) LD50 (Rat): > Method: OECI Assessment: T	lation method : 5.400 mg/kg 2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal
expos Acute Toxic Produ Acute Acute Acute Acute	e toxicity if swallowed. <u>uct:</u> a oral toxicity ponents: a acid: a oral toxicity a dermal toxicity	:	Skin contact Ingestion Eye contact Acute toxicity of Method: Calcu LD50 (Mouse) LD50 (Rat): > Method: OECI Assessment: T toxicity	lation method : 5.400 mg/kg 2.000 mg/kg D Test Guideline 402 The substance or mixture has no acute dermal 9 mg/kg

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-	corrosion/irritation lassified based on ava	ilable	information.	
Com	ponents:			
	acid:			
Spec Metho Resu	bc	:	Rabbit OECD Test Guid No skin irritation	
	eus eye damage/eye i es serious eye irritation		on	
Com	ponents:			
Citric	acid:			
Speci Metho Resu	bc	:	Rabbit OECD Test Guid Irritation to eyes	deline 405 , reversing within 21 days
Resp	iratory or skin sensit	isatio	on	
-	sensitisation lassified based on ava	ilable	information.	
-	iratory sensitisation lassified based on ava	ilable	information.	
Com	ponents:			
Temo	ozolomide:			
Test Expo Spec Resu	sure routes ies	:	Maximisation Te Dermal Guinea pig negative	st
	a cell mutagenicity ected of causing genet	tic del	ects.	
Com	ponents:			
Citric	acid:			
Geno	toxicity in vitro	:	Test Type: Bacte Result: negative	erial reverse mutation assay (AMES)
			Test Type: in viti Result: positive	ro micronucleus test

Test Type: Bacterial reverse mutation assay (AMES) Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis) Species: Rat Application Route: Ingestion



ersion 0	Revision Date: 06.04.2024		9S Number: 583-00025	Date of last issue: 26.09.2023 Date of first issue: 03.11.2014
			Result: negative	
Temo	zolomide:			
	toxicity in vitro	:	Test Type: Bacte Result: positive	rial reverse mutation assay (AMES)
				nosome aberration test in vitro nan lymphocytes
Germ sessn	cell mutagenicity- As- nent	:		om in vitro mammalian mutagenicity assays e activity relationship to known germ cell
	nogenicity ected of causing cancer			
	oonents:			
	zolomide:			
Speci Applic		:	Rat Oral 6 Months	int
Resul Targe	t t Organs	:	4 mg/kg body we positive Mammary gland	ignt
Carcii ment	nogenicity - Assess-	:	Limited evidence	of carcinogenicity in animal studies
-	oductive toxicity			
May o	lamage fertility. May da	mag	e the unborn child	
<u>Com</u>	oonents:			
	acid: s on foetal develop-	:	Test Type: One-g Species: Rat Application Route Result: negative	generation reproduction toxicity study e: Ingestion
II Tomo	zolomide:			
	s on fertility	:	Test Type: Fertili	ty/early embryonic development
		-	Species: Rat, ma Application Route	le
Effect ment	s on foetal develop-	:	Species: Rat Application Route Embryo-foetal to	yo-foetal development e: Oral kicity: LOAEL: 13 mg/kg body weight Malformations were observed.



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Repro sessn	oductive toxicity - As- nent	ity, base	ridence of adverse effects on sexual function and fertil- ed on animal experiments., Clear evidence of adverse on development, based on animal experiments.
	- single exposure		
	lassified based on avail	able informati	on.
	oonents:		
Citric	a cid: ssment	: May cau	se respiratory irritation.
STOT	- repeated exposure		
May c	cause damage to organ	s through prol	onged or repeated exposure.
Comp	oonents:		
Temo	zolomide:		
Targe	sure routes et Organs ssment		arrow, thymus gland, Lymph nodes, spleen damage to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Citric	acid:		
Speci NOAE		: Rat : 4.000 m	a/ka
LOAE	EL	: 8.000 n	ng/kg
	cation Route sure time	: Ingestio : 10 Days	
Temo	zolomide:		
Speci		: Rat, fem	
NOAE		: 4 mg/kg : 21 mg/l	
Applic	cation Route	: Oral	
	sure time et Organs	: 6 Month	s lodes, thymus gland, Bone marrow, Reproductive
Targe	a Organs	organs	iodes, inymus giand, bone manow, reproductive
Speci	es	: Rat, ma	le
NOAE		: 8,5 mg/l	
LOAE Applic	:L cation Route	: 34 mg/l : Oral	(g
Expos	sure time	: 6 Month	
Targe	et Organs		nodes, thymus gland, Bone marrow, male reproductive Gastrointestinal tract
Speci		: Dog	
NOAE	ΞL	: 2,5 mg/l	(y



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LOA	EL	: 6,3 mg/kg	
Appli	cation Route	: Oral	
	sure time	: 6 Months	
Targe	et Organs		w, spleen, male reproductive organs, Gastrointes-
11		tinal tract, t	nymus gland
Aspi	ration toxicity		
Not c	lassified based on av	ailable information.	
Evne	rience with human e	NDOSURA	
Expe		, Aposulo	
<u>Com</u>	ponents:		
Tom	ozolomide:		
		o , ,	
Inges	stion		Blood disorders, Nausea, Vomiting, Diarrhoea,
		anorexia, r	atigue, hair loss
SECTION	N 12: Ecological in	formation	
	J		
10.1 Taxi	~i4./		
12.1 Toxi	City		
<u>Com</u>	ponents:		
Citric	c acid:		
Toxic	to fish	· 1 C50 (Pime	ephales promelas (fathead minnow)): > 100 mg/l
I UNIC		. 2000 (Fillie	

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 1.535 mg/l Exposure time: 24 h
Temozolomide:		
Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 90 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 40 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to microorganisms	:	EC50 : > 100 mg/l Exposure time: 3 h Test Type: Respiration inhibition Method: OECD Test Guideline 209



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12.2 Persi	istence and degradab	ility		
<u>Com</u>	ponents:			
Citric	acid:			
Biode	gradability	:	Result: Readily biodegradable. Biodegradation: 97 % Exposure time: 28 d Method: OECD Test Guideline 301B	
Temo	zolomide:			
Biode	gradability	:	Result: rapidly degradable Biodegradation: 83 % Exposure time: 35 d	
Stabil	ity in water	:	Degradation half life (DT50): < 1 d	
12.3 Bioa	ccumulative potential			
Com	oonents:			
Citric	acid:			
	ion coefficient: n- ol/water	:	log Pow: -1,72	
Partiti	ozolomide: ion coefficient: n- ol/water	:	log Pow: 1,35	
	2.4 Mobility in soil No data available			
12.5 Resu	lts of PBT and vPvB a	asse	ssment	
Prod	uct:			
	ssment	:	to be either pe	e/mixture contains no components considered rsistent, bioaccumulative and toxic (PBT), or t and very bioaccumulative (vPvB) at levels of r.
12.6 Othe	r adverse effects			
Prod	uct:			
Endo tial	crine disrupting poten-	:	ered to have e REACH Article	e/mixture does not contain components consid- indocrine disrupting properties according to a 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at or higher.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

: Dispose of in accordance with local regulations.



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Contaminated packaging		 According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer. Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product. 	
SECTION	14: Transport infor	mation	
14.1 UN ու	umber		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG		: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.2 UN pr	oper shipping name		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG		: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.3 Trans	port hazard class(es)		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG		: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.4 Packi	ng group		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG		: Not regulated as a dangerous good	
	(Cargo)	: Not regulated as a dangerous good	
	(Passenger)	: Not regulated as a dangerous good	
14.5 Environmental hazards			
Not regulated as a dangerous good 14.6 Special precautions for user			
-	oplicable	~	





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

Remarks : 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 components of this product are reported in the following inventories:				
AICS	: not determined			
DSL	: not determined			
IECSC	: not determined			

15.2 Chemical safety assessment

A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

Other information	:	Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.
Full text of H-Statements		
H300	:	Fatal if swallowed.
H319	:	Causes serious eye irritation.
11005		Many approximation of instantian

H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H360FD	May damage fertility. May damage the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if swallowed.

Full text of other abbreviations

Acute Tox.	Acute toxicity
Carc. :	Carcinogenicity
Eye Irrit. :	Eye irritation
Muta. :	Germ cell mutagenicity
Repr. :	Reproductive toxicity
STOT RE :	Specific target organ toxicity - repeated exposure
STOT SE :	Specific target organ toxicity - single 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 La-



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boratory 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; 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

Further information

Sources of key data used to :	Internal technical data, data from raw material SDSs, OECD
compile the Safety Data	eChem Portal search results and European Chemicals Agen-
Sheet	cy, http://echa.europa.eu/

Classification procedure:

Classification of the mixture:

Acute Tox. 3	H301	Calculation method
Eye Irrit. 2	H319	Calculation method
Muta. 2	H341	Calculation method
Carc. 2	H351	Calculation method
Repr. 1B	H360FD	Calculation method
STOT RE 2	H373	Calculation method

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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.

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