

Version 5.2	Revision Date: 31.01.2024	SDS Number: 25461-00024	Date of last issue: 26.09.2023 Date of first issue: 24.10.2014
SECTIO	N 1: Identification of	the substance	e/mixture and of the company/undertaking
	<b>uct identifier</b> de name	: Temozolor	nide Formulation
Use	vant identified uses of of the Sub- ice/Mixture	the substance of the su	or mixture and uses advised against utical
Rec on u	ommended restrictions ise	: Not applica	able
	<b>ils of the supplier of th</b> npany	: MSD 117 16th F	
Tele	phone	: +27 11 65	5 3000
	ail address of person oonsible for the SDS	: EHSDATA	STEWARD@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 2	H300: Fatal 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	H372: Causes damage to organs through pro-

longed or repeated exposure.

Specific target organ toxicity - repeated exposure, Category 1

## 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms



Signal word





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Hazar	d statements	H319 Cau H341 Sus H351 Sus H360FD child.	al if swallowed. Ises serious eye irritation. pected of causing genetic defects. pected of causing cancer. May damage fertility. May damage the unborn Ises damage to organs through prolonged or re- psure.
Preca	utionary statements	P260 Do	ain special instructions before use. not breathe dust. ar protective gloves/ protective clothing/ eye protec-

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)
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, Lymph nodes, spleen)	>= 50 - < 70
(+)-Tartaric acid	87-69-4 201-766-0	Eye Dam. 1; H318	>= 1 - < 3



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For explanation of abbreviations see section 16.						

# **SECTION 4: First aid measures**

4.1 Description of first aid measure	S
General advice :	In the case of accident or if you feel unwell, seek medical ad- vice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders :	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
If inhaled :	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact :	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact :	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention.
If swallowed :	If swallowed, DO NOT induce vomiting. Call a physician or poison control centre immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms and	effects, both acute and delayed
Risks	Fatal if swallowed. Causes serious eye irritation. Suspected of causing genetic defects. Suspected of causing cancer. May damage fertility. May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
	Contact with dust can cause mechanical irritation or drying of the skin.
4.3 Indication of any immediate me	dical attention and special treatment needed
Treatment :	Treat symptomatically and supportively.



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SECTI	ON 5: Firefighting mea	sures	
5.1 Ext	inguishing media		
Su	itable extinguishing media	: Water spray Alcohol-resista Carbon dioxid Dry chemical	
	suitable extinguishing edia	: None known.	
5.2 Spe	ecial hazards arising from	n the substance or	mixture
	ecific hazards during fire- hting	concentrations potential dust	ng dust; fine dust dispersed in air in sufficient s, and in the presence of an ignition source is a explosion hazard. ombustion products may be a hazard to health.
Ha uc	zardous combustion prod- ts	: Carbon oxides Nitrogen oxide Metal oxides	•
5.3 Adv	vice for firefighters		
	ecial protective equipment firefighters		fire, wear self-contained breathing apparatus. protective equipment.
Sp od	ecific extinguishing meth- s	cumstances a Use water spr	ning measures that are appropriate to local cir- nd the surrounding environment. ay to cool unopened containers. maged containers from fire area if it is safe to do

## 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
6.2 Environmental precautions		
Environmental precautions	:	Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	:	Sweep up or vacuum up spillage and collect in suitable con-
		tainer for disposal.
		Avoid dispersal of dust in the air (i.e., clearing dust surfaces



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		es, as these m leased into the Local or nation posal of this m employed in th mine which re Sections 13 an	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**

### 7.1 Precautions for safe handling

	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.
_			

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage	:	Keep in properly labelled containers. Store locked up. Keep
areas and containers		tightly closed. Store in accordance with the particular national
		regulations.





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Advic	e on common storage	Strong oxidizin Self-reactive su Organic peroxid Flammable liqu Flammable soli Pyrophoric liqu Pyrophoric soli Self-heating su	ubstances and mixtures des hids ids ds bstances and mixtures d mixtures, which in contact with water, emit
•	<b>ic end use(s)</b> fic use(s)	: No data availat No data availat	

## **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
(+)-Tartaric acid	Workers	Inhalation	Long-term systemic effects	5,2 mg/m3
	Workers	Skin contact	Long-term systemic effects	2,9 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1,3 mg/m3
	Consumers	Skin contact	Long-term systemic effects	1,5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	8,1 mg/kg bw/day
Stearic acid	Workers	Inhalation	Long-term systemic effects	17,63 mg/m3
	Workers	Skin contact	Long-term systemic effects	10 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	4,348 mg/m3
	Consumers	Skin contact	Long-term systemic effects	5 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic	2,5 mg/kg



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			effects	bw/day

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

Substance name	Environmental Compartment	Value
(+)-Tartaric acid	Fresh water	0,3125 mg/l
	Freshwater - intermittent	0,514 mg/l
	Marine water	0,3125 mg/l
	Sewage treatment plant	10 mg/l
	Fresh water sediment	1,141 mg/kg dry weight (d.w.)
	Marine sediment	1,141 mg/kg dry weight (d.w.)
	Soil	0,0449 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 Hand 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	: off-white



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	Odour Odour	Threshold	:	No data available No data available	
	рН		:	No data available	
		point/freezing point	:	No data available	
	-	oiling point and boiling	:	No data available	
	range Flash p	01 0		No data available	
		ation rate	:	No data available	
		ability (solid, gas)	:		ive dust-air mixture during processing, han-
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	No data available	9
	Relative	e vapour density	:	No data available	9
	Relative	e density	:	No data available	9
	Density	,	:	1 g/cm <sup>3</sup>	
		er solubility n coefficient: n-	:	No data available No data available	
		nition temperature	:	No data available	9
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ty cosity, kinematic	:	No data available	9
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
9.2	Other in	formation			
	Flamma	ability (liquids)	:	No data available	9
	Molecu	lar weight	:	No data available	9
	Particle	size	:	No data available	9



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SECTION	10: Stability and re	eactivity	
<b>10.1 Reac</b> Not c	<b>tivity</b> lassified as a reactivity	hazard.	
	nical stability e under normal conditio	ons.	
10.3 Poss	ibility of hazardous re	eactions	
	rdous reactions	: May form exp dling or other	plosive dust-air mixture during processing, han- r means. h strong oxidizing agents.
10.4 Conc	litions to avoid		
Cond	itions to avoid	: Heat, flames Avoid dust fo	
10.5 Incor	npatible materials		
Mater	rials to avoid	: Oxidizing age	ents
No ha	rdous decomposition azardous decomposition	n products are know	n.
No ha	azardous decomposition	information	n.
No ha	Azardous decomposition 1 11: Toxicological i mation on toxicologic nation on likely routes o	information	n.
No ha SECTION 11.1 Inform Inform expose Acute	Azardous decomposition 1 11: Toxicological i mation on toxicologic nation on likely routes o	n products are know information cal effects of : Inhalation Skin contact Ingestion	n.
No ha SECTION 11.1 Inform Inform expose Acute Fatal <u>Prode</u>	azardous decomposition <b>I 11: Toxicological i</b> <b>mation on toxicologic</b> nation on likely routes of sure <b>e toxicity</b> if swallowed.	information cal effects of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity	n. estimate: 33,93 mg/kg Jation method
No ha SECTION 11.1 Inform Expose Acute Fatal Produ Acute	Azardous decomposition A 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity if swallowed. <u>uct:</u>	information cal effects of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity	estimate: 33,93 mg/kg
No ha SECTION 11.1 Inform Inform expose Acute Fatal Produ Acute Comp Temo	Azardous decomposition A 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity if swallowed. <u>uct:</u> e oral toxicity ponents: poolemide:	information cal effects of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity Method: Calco	estimate: 33,93 mg/kg Jation method
No ha SECTION 11.1 Inform Inform expose Acute Fatal Produ Acute Comp Temo	azardous decomposition I 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity if swallowed. <u>uct:</u> a oral toxicity ponents:	information information cal effects of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity Method: Calco : LD50 (Dog): 1	estimate: 33,93 mg/kg Jation method 9 mg/kg
No ha SECTION 11.1 Inform Inform expose Acute Fatal Produ Acute Comp Temo	Azardous decomposition A 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity if swallowed. <u>uct:</u> e oral toxicity ponents: poolemide:	information cal effects of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity Method: Calco	estimate: 33,93 mg/kg Jation method 9 mg/kg 15 mg/kg
No ha SECTION 11.1 Inform Inform expose Acute Fatal Produ Acute	Azardous decomposition A 11: Toxicological i mation on toxicologic nation on likely routes of sure e toxicity if swallowed. <u>uct:</u> e oral toxicity ponents: poolemide:	information cal effects of : Inhalation Skin contact Ingestion Eye contact : Acute toxicity Method: Calco : LD50 (Dog): 1 LD50 (Rat): 3	estimate: 33,93 mg/kg Jation method 9 mg/kg 15 mg/kg



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Acute	e dermal toxicity	:		000 mg/kg Fest Guideline 402 e substance or mixture has no acute dermal
-	corrosion/irritation	ilable	information.	
<u>Com</u>	ponents:			
<b>(+)-T</b> Spec Meth Resu	od	:	Rabbit OECD Test Guid No skin irritation	leline 404
	ous eye damage/eye i es serious eye irritation		on	
<u>Com</u>	ponents:			
(+)-T	artaric acid:			
Spec Meth		:	Bovine cornea OECD Test Guid	leline 437
Resu	lt	:	Irreversible effec	ts on the eye
Resp	piratory or skin sensit	tisatio	n	
-	sensitisation classified based on ava	ilable	information.	
-	<b>biratory sensitisation</b> classified based on ava	ilable	information.	
<u>Com</u>	ponents:			
Teme	ozolomide:			
Test Expo Spec Resu	sure routes ies	:	Maximisation Tes Dermal Guinea pig negative	st
(+)-T	artaric acid:			
Test	Type sure routes ies od	:	Local lymph node Skin contact Mouse OECD Test Guid	

### Germ cell mutagenicity

Result

Suspected of causing genetic defects.

: negative



sion	Revision Date: 31.01.2024		OS Number: 461-00024	Date of last issue: 26.09.2023 Date of first issue: 24.10.2014
<u>Comp</u>	onents:			
Temo	zolomide:			
Genot	oxicity in vitro	:	Test Type: Bactor Result: positive	erial reverse mutation assay (AMES)
				mosome aberration test in vitro man lymphocytes
Germ sessm	cell mutagenicity- As- ent	:		rom in vitro mammalian mutagenicity assa re activity relationship to known germ cell
(+)-Ta	rtaric acid:			
Genot	oxicity in vitro	:	Result: negative	erial reverse mutation assay (AMES) I on data from similar materials
			Result: negative	mosome aberration test in vitro I on data from similar materials
				damage and repair, unscheduled DNA syr alian cells (in vitro)
Genot	oxicity in vivo	:		
Carcin	nogenicity			
Suspe	cted of causing cancer.			
<u>Comp</u>	onents:			
Temo	zolomide:			
Specie		:	Rat	
	ation Route ure time	:	Oral 6 Months	
Lvhos		÷	4 mg/kg body w	eight
Result		:	positive	
Target	t Organs	:	Mammary gland	
Carcin ment	ogenicity - Assess-	:	Limited evidence	e of carcinogenicity in animal studies
Repro	ductive toxicity			
May d	amage fertility. May dar	mag	e the unborn child	١.
<u>Comp</u>	onents:			
	zolomide:			

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	Revision Date: 31.01.2024		9S Number: 461-00024	Date of last issue: 26.09.2023 Date of first issue: 24.10.2014
Effect	s on fertility	:	Species: Rat, r Application Ro	ute: Oral L: 8,5 mg/kg body weight
Effect ment	s on foetal develop-	:	Species: Rat Application Ro Embryo-foetal	bryo-foetal development ute: Oral toxicity: LOAEL: 13 mg/kg body weight e, Malformations were observed.
Repro sessn	oductive toxicity - As- nent	:	ity, based on a	e of adverse effects on sexual function and fern nimal experiments., Clear evidence of adverse elopment, based on animal experiments.
• •	artaric acid: s on foetal develop-	:	Test Type: Em Species: Rat Application Ro Result: negativ	
Cause <u>Comp</u> Temo Expos	<ul> <li>repeated exposure</li> <li>damage to organs the second second</li></ul>		Ingestion	
	t Organs ssment	:	Bone marrow, Causes damag	thymus gland, Lymph nodes, spleen je to organs through prolonged or repeated
Asses			exposure.	
Repe	ated dose toxicity		exposure.	
Repea <u>Com</u> r	ated dose toxicity ponents:		exposure.	
Repea Comp Temo Speci NOAE LOAE Applic Expos	ated dose toxicity ponents: pzolomide: es EL	:	Rat, female 4 mg/kg 21 mg/kg Oral 6 Months	thymus gland, Bone marrow, Reproductive



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Та	Target Organs		Lymph nodes, thymus gland, Bone marrow, male reproductiv organs, Gastrointestinal tract		
NC LC Ap E×	Species NOAEL LOAEL Application Route Exposure time Target Organs		Dog 2,5 mg/kg 6,3 mg/kg Oral 6 Months Bone marrow, spleen, male reproductive organs, Gastrointes tinal tract, thymus gland		
Sp NC Ap	<b>(+)-Tartaric acid:</b> Species NOAEL Application Route Exposure time		Rat > 100 mg/kg Ingestion 2 yr		
No	Aspiration toxicity Not classified based on available information. Experience with human exposure				
<u>Cc</u>	omponents:				
	mozolomide:				
Ing	Ingestion		Symptoms: Blood disorders, Nausea, Vomiting, Diarrhoea, anorexia, Fatigue, hair loss		
SECTI	ON 12: Ecological infor	ma	tion		
12.1 To	oxicity				
<u>Cc</u>	omponents:				
Те	mozolomide:				
Τc	xicity to fish	:	LC50 (Oncorhyno Exposure time: 96 Method: OECD T		
	xicity to daphnia and other uatic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD T		
	xicity to algae/aquatic ants	:	EC50 (Pseudokiro mg/l Exposure time: 72 Method: OECD T		

Toxicity to microorganisms : EC50 : > 100 mg/l



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			Exposure time: 3 Test Type: Resp Method: OECD 7		
(+)-Ta	artaric acid:				
	Toxicity to fish		LC50 (Danio rerio (zebra fish)): > 100 mg/l Exposure time: 96 h Method: OECD Test Guideline 203		
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia magna (Water flea)): 93,313 mg/l Exposure time: 48 h Method: OECD Test Guideline 202		
Toxicity to algae/aquatic plants		:	EC50 (Pseudokirchneriella subcapitata (green algae)): 51,4 mg/l Exposure time: 72 h Method: OECD Test Guideline 201		
			mg/l Exposure time: 7	irchneriella subcapitata (green algae)): 3,125 2 h Fest Guideline 201	
Toxicity to microorganisms		:	EC50 : > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209		
12.2 Pers	istence and degradabil	ity			
Com	ponents:				
Temo	ozolomide:				
Biode	egradability	:	Result: rapidly de Biodegradation: Exposure time: 3	83 %	
Stabi	lity in water	:	Degradation half life (DT50): < 1 d		
.,	artaric acid: egradability	:	Result: Readily b Biodegradation: Exposure time: 2 Method: OECD 7	85 %	
12.3 Bioa	ccumulative potential				
Com	ponents:				
Partit	<b>ozolomide:</b> ion coefficient: n- iol/water	:	log Pow: 1,35		

(+)-Tartaric acid:



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	tion coefficient: n- nol/water	: log	Pow: -1,91		
12.4 Mob	oility in soil				
No d	lata available				
12.5 Res	ults of PBT and vPvB a	issessme	ent		
Proc	luct:				
Asse	essment	to b very	e either persi	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of	
12.6 Oth	er adverse effects				
Proc	luct:				
Endo tial	ocrine disrupting poten-	erec REA (EU	to have end	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.	
SECTION 13: Disposal considerations					
13.1 Was	te treatment methods				
Product :		Acc are Was disc	ording to the not product s ste codes sho ussion with th	ordance with local regulations. European Waste Catalogue, Waste Codes pecific, but application specific. ould be assigned by the user, preferably in ne waste disposal authorities. f waste into sewer.	

## **SECTION 14: Transport information**

## 14.1 UN number

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 proper shipping name		
ADN	:	Not regulated as a dangerous good
ADR	:	Not regulated as a dangerous good
RID	:	Not regulated as a dangerous good

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## **Temozolomide Formulation**

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IMDG	3	: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.3 Tran	sport hazard class(e	)	
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG	6	: Not regulated as a dangerous good	
ΙΑΤΑ		: Not regulated as a dangerous good	
14.4 Pack	ing group		
ADN		: Not regulated as a dangerous good	
ADR		: Not regulated as a dangerous good	
RID		: Not regulated as a dangerous good	
IMDG	6	: Not regulated as a dangerous good	
ΙΑΤΑ	(Cargo)	: Not regulated as a dangerous good	
ΙΑΤΑ	(Passenger)	: Not regulated as a dangerous good	
-	ronmental hazards egulated as a dangero	s good	
-	<b>ial precautions for u</b>	er	
14.7 Tran	sport in bulk accord	g to Annex II of Marpol and the IBC Code	
Rema	arks	: Not applicable for product as supplied.	

ture

## 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.



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#### Full text of H-Statements

H300 :	Fatal if swallowed.
H318 :	Causes serious eye damage.
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 toxicity Carcinogenicity
	Serious eye damage
	Germ cell mutagenicity
•	Reproductive toxicity
STOT RE :	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; 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 : compile the Safety Data

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agen-



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Sheet		cy, http://echa.e	uropa.eu/
Class	ification of the mixt	ure:	Classification procedure:
Acute	Tox. 2	H300	Calculation method
Eye Ir	rit. 2	H319	Calculation method
Muta.	2	H341	Calculation method
Carc.	2	H351	Calculation method
Repr.	1B	H360FD	Calculation method
STOT	RE 1	H372	Calculation method

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