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## Diazoxide (>30%) Formulation

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### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1	Product identifier Trade name	:	Diazoxide (>30%) Formulation
1.2	Relevant identified uses of th	ne s	ubstance or mixture and uses advised against
	Use of the Sub- stance/Mixture		Pharmaceutical
	Recommended restrictions on use	:	Not applicable
1.3	Details of the supplier of the	saf	ety data sheet
	Company	:	MSD 120 Moorgate EC2M 6UR London, United Kingdom
	Telephone	:	+44 (0) 2081548000
	E-mail address of person responsible for the SDS	:	EHSDATASTEWARD@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) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Reproductive toxicity, Category 1B Specific target organ toxicity - repeated exposure, Category 1

H360D: May damage the unborn child. H372: Causes damage to organs through prolonged or repeated exposure.

#### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Hazard pictograms

Signal word



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Hazar	d statements	-	H360D H372	May damage the unborn child. Causes damage to organs through prolonged or repeated exposure.
Preca	utionary statements	•	<b>Prevention</b> P201 P260 P264 P270 P280	Obtain special instructions before use. Do not breathe dust. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this prod- uct. Wear protective gloves/ protective clothing/ eye protection/ face protection.
			<b>Response:</b> P308 + P31	3 IF exposed or concerned: Get medical advice/ attention.

Hazardous components which must be listed on the label:

Diazoxide

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 32.258 %

#### 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.

Dust contact with the eyes can lead to mechanical irritation.

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)
Diazoxide	364-98-7 206-668-1	Acute Tox. 4; H302 Repr. 1B; H360D STOT RE 1; H372 (Pancreas, Kidney, Heart)	>= 30 - < 50

For explanation of abbreviations see section 16.

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### **SECTION 4: First aid measures**

4.1 Description of first aid meas	ure	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	:	If in eyes, rinse well with water. Get medical attention if irritation develops and persists.		
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.		
4.2 Most important symptoms a	nd	effects, both acute and delayed		
Risks	:	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. Dust contact with the eyes can lead to mechanical irritation.		
4.3 Indication of any immediate	me	dical attention and special treatment needed		
Treatment	:	Treat symptomatically and supportively.		
SECTION 5: Firefighting mea	sur	res		

### 5.1 Extinguishing media

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

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Unsuitable extinguishing media		:	None known.		
5.2 S	Special	hazards arising from	the	substance or mi	xture
Specific hazards during fire- fighting		:	Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Exposure to combustion products may be a hazard to health.		
	Hazard ucts	ous combustion prod-	:	Carbon oxides Chlorine compour Nitrogen oxides (I Sulphur oxides	
5.3 A	Advice	or firefighters			
	Special for firefi	protective equipment ghters	:	: In the event of fire, wear self-contained breathing apparat Use personal protective equipment.	
	Specific ods	extinguishing meth-	:	Use extinguishing measures that are appropriate to local cir cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to so. Evacuate area.	

### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Personal precaution	ins :	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.
		If spillage enters rivers or watercourses, inform the Environ-
		ment Agency (emergency telephone number 0800 807060).

### 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 with compressed air). Dust deposits should not be allowed to accumulate on surfac- es, as these may form an explosive mixture if they are re- leased into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and dis-
		Local or national regulations may apply to releases and dis- posal of this material, as well as those materials and items

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		mine which reg Sections 13 an	e cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.
See sectio	ence to other sections ons: 7, 8, 11, 12 and 13		
SECTION	N 7: Handling and st	orage	
7.1 Preca	utions for safe handli	ng	
Tech	nical measures	causing an exp Provide adequa	/ may accumulate and ignite suspended dust losion. ate precautions, such as electrical grounding r inert atmospheres.
Local	/Total ventilation		tilation is unavailable, use with local exhaust
Advic	e on safe handling	Handle in acco practice, based sessment Keep container Minimize dust g Keep container Keep away fror Take precaution Do not eat, drin Take care to pr environment.	dust. vith eyes. oughly after handling. rdance with good industrial hygiene and safety I on the results of the workplace exposure as- tightly closed. generation and accumulation. closed when not in use. n heat and sources of ignition. nary measures against static discharges. k or smoke when using this product. event spills, waste and minimize release to the
Hygie	ene measures	flushing system place. When us nated clothing b The effective op engineering con appropriate deg	peration of a facility should include review of ntrols, proper personal protective equipment, gowning and decontamination procedures, ne monitoring, medical surveillance and the
7.2 Condi	tions for safe storage	, including any inco	mpatibilities
Requ	irements for storage and containers	: Keep in proper	ly labelled containers. Store locked up. Keep Store in accordance with the particular national
Advid	e on common storage	: Do not store wi Strong oxidizin	th the following product types: g agents

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		Explosives Gases	
<b>7.3 Specific end use(s)</b> Specific use(s)		: No data availa	ble

### **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

### **Occupational Exposure Limits**

dust of any kind	10 mg/m3 Value type (Form of exposure): TWA (Inhalable) Basis: GB EH40
	4 mg/m3 Value type (Form of exposure): TWA (Respirable fraction) Basis: GB EH40

Components	CAS-No.	Value type (Form	Control parameters	Basis
Diazoxide	364-98-7	TWA	50 µg/m3 (OEB 3)	Internal
		Wipe limit	500 μg/100 cm²	Internal

#### 8.2 Exposure controls

### **Engineering measures**

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

Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., open-face containment devices).

Minimize open handling.

#### 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.
Hand protection		
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.

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Resp	iratory protection	contaminate : If adequate sure assess ommended	riate degowning techniques to remove potentially ed clothing. local exhaust ventilation is not available or expo- sment demonstrates exposures outside the rec- guidelines, use respiratory protection. should conform to BS EN 143
Fil	lter type	: Particulates	

### **SECTION 9: Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

Appearance Colour Odour Odour Threshold	:	powder white No data available No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling	:	No data available
range Flash point	:	No data available
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing, han- dling or other means.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	No data available
Density	:	No data available
Solubility(ies) Water solubility Partition coefficient: n- octanol/water Auto-ignition temperature	::	No data available Not applicable No data available
Decomposition temperature	:	No data available
Viscosity		

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	Viscosity, kinem	atic :	: Not applicable	
	Explosive propertie	s :	: Not explosive	
Oxidizing properties		s :	: The substance	or mixture is not classified as oxidizing.
<b>9.2 Other information</b> Flammability (liquids)		ls) :	: Not applicable	
	Molecular weight	:	: No data availa	ble
	Particle size	:	: No data availa	ble

### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Not classified as a reactivity hazard.

#### 10.2 Chemical stability

Stable under normal conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions	: May form explosive dust-air mixture during processing, han- dling or other means. Can react with strong oxidizing agents.
10.4 Conditions to avoid	
Conditions to avoid	: Heat, flames and sparks. Avoid dust formation.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

Information on likely routes of	:	Inhalation
exposure		Skin contact
		Ingestion
		Eye contact

### Acute toxicity

Not classified based on available information.

#### Product:

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	Acute oral toxicity :		:	Acute toxicity estine Method: Calculation	mate: > 2,000 mg/kg on method
	Compo	onents:			
	Diazox	ide:			
	Acute o	oral toxicity	:	LD50 (Rat): 980 n	ng/kg
				LD50 (Mouse): 44	4 mg/kg
				LD50 (Guinea pig	): 191 mg/kg
	Acute to adminis	oxicity (other routes of stration)	:	LD50 (Mouse): 22 Application Route	
				LD50 (Mouse): 32 Application Route	
				LD50 (Rat): 510 n Application Route	
	Skin corrosion/irritation Not classified based on available information. Serious eye damage/eye irritation Not classified based on available information.				
	-	atory or skin sensitis	atio	n	
		ensitisation ssified based on availa	ble	information.	
	-	atory sensitisation ssified based on availa	ble	information.	
		ell mutagenicity			
		ssified based on availa	ble	information.	
		<b>ogenicity</b> ssified based on availa	ble	information.	
	-	luctive toxicity mage the unborn child			
	Compo	onents:			
	Diazox	ide:			
	Effects ment	on foetal develop-	:		
					an mont

Test Type: Development

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		Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 100 mg/kg body weight Result: Effects on foetal development, foetal abnormalities
		Test Type: Development Species: Rat Application Route: Intravenous Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: Fetotoxicity
		Test Type: Development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: NOAEL: 30 mg/kg body weight Result: foetal mortality
		Test Type: Development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 60 mg/kg body weight Result: foetal mortality
		Test Type: Development Species: Rabbit Application Route: Intravenous Developmental Toxicity: NOAEL: 7 mg/kg body weight Result: foetal abnormalities
		Test Type: Development Species: Rabbit Application Route: Intravenous Developmental Toxicity: LOAEL: 21 mg/kg body weight Result: foetal abnormalities
		Test Type: Development Species: Dog Application Route: Intravenous Developmental Toxicity: NOAEL: 5 mg/kg body weight Result: foetal mortality
		Test Type: Development Species: Dog Application Route: Intravenous Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: foetal mortality
		Test Type: Development Species: Monkey Application Route: Intravenous Developmental Toxicity: LOAEL: 5 mg/kg body weight Result: No teratogenic effects

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Repro sessr	oductive toxicity - As- nent	:	May damage the	e unborn child.
	<b>F - single exposure</b> lassified based on avai	lable	information.	
	<b>F - repeated exposure</b> es damage to organs th		h prolonged or re	epeated exposure.
Com	ponents:			
Targe	<b>oxide:</b> et Organs ssment	:	Pancreas, Kidne Causes damage exposure.	ey, Heart e to organs through prolonged or repeated
Repe	ated dose toxicity			
Com	ponents:			
Diazo	oxide:			
Expo		:	Rat 400 mg/kg Oral 2 Weeks Adrenal gland	
Expo Targe			Rat 1,080 mg/kg Oral 3 Months Pancreas hyperglycemia	
Expo			Rat 200 mg/kg Oral 52 Weeks Heart, Liver, Ad	renal gland, Thyroid
Expo Targe			Dog 200 mg/kg Oral 82 Weeks Pancreas hyperglycemia	

### Aspiration toxicity

Not classified based on available information.

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	Experience with human exposure							
	Components:							
	Diazoxide: General Information : Symptoms: hyperglycemia, hypotension, Nausea, Von Dizziness, Weakness							
Ingestion			:	<ul> <li>Symptoms: sodium retention, water retention, anorexia, Ab- dominal pain, Diarrhoea, tachycardia, Palpitation</li> </ul>				
SEC	TION	12: Ecological infor	ma	tion				
12.1	Toxic	ity						
	Comp	onents:						
	Diazo							
	Ecoto	xicology Assessment						
	Acute	aquatic toxicity	:	Toxic effects can	not be excluded			
	Chron	ic aquatic toxicity	:	Toxic effects can	not be excluded			
		stence and degradabil ta available	ity					
12.3	Bioac	cumulative potential						
	Comp	onents:						
		<b>xide:</b> on coefficient: n- ol/water	:	log Pow: 1.2				
		<b>ity in soil</b> ta available						
12.5	Resul	ts of PBT and vPvB as	sse	ssment				
	<u>Produ</u> Asses	<u>ict:</u> sment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of			
12.6	Other	adverse effects						
	<u>Produ</u> Endoc tial	ict: rine disrupting poten-	:	ered to have end	nixture does not contain components consid- ocrine disrupting properties for environment REACH Article 57(f).			

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### **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations. 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.</li> </ul>
Contaminated packaging	<ul> <li>Empty containers should be taken to an approved waste han- dling site for recycling or disposal.</li> <li>If not otherwise specified: Dispose of as unused product.</li> </ul>

### **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
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport 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 Packing 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

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IATA (Cargo) IATA (Passenger)		C C	s a dangerous good s a dangerous good	
14.5 Enviro	onmental hazards gulated as a dangerous	C C		
14.6 Special precautions for user Not applicable				
14.7 Transport in bulk according Remarks			ool and the IBC Code or product as supplied.	

### **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Not applicable
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Brit-	:	Not applicable
ain) Regulation (EC) on substances that deplete the ozone laver	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (CC Not applicable	OMA	.H)

### Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

#### 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.

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### **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

H302	:	Harmful if swallowed.
H360D	:	May damage the unborn child.
H372	:	Causes damage to organs through prolonged or repeated
		exposure.

#### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Repr.	:	Reproductive toxicity
STOT RE	:	Specific target organ toxicity - repeated exposure
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

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

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Furth	er information		
	es of key data used to ile the Safety Data	: Internal technical data, data from raw material SDSs, C eChem Portal search results and European Chemicals cy, http://echa.europa.eu/	
Class	ification of the mixtur	e:	Classification procedure:
Repr.	1B	H360D	Calculation method
STOT	RE 1	H372	Calculation method

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.

GB / EN