

Signal word



## **Diazoxide (<15%) Formulation**

Version 2.1	Revision Date: 2023/09/30		S Number: 9866-00009	Date of last issue: 2023/04/04 Date of first issue: 2019/03/20
1. PRODU	JCT AND COMPANY IDE	ENT	IFICATION	
Prod	uct name	:	Diazoxide (<15%	) Formulation
Man	ufacturer or supplier's d	etai	ls	
Com	pany	:	MSD	
Addr	ess	:	126 E. Lincoln Av Rahway, New Je	venue orsey U.S.A. 07065
Tele	phone	:	908-740-4000	
Eme	rgency telephone number	:	1-908-423-6000	
E-ma	E-mail address		EHSDATASTEW	/ARD@msd.com
Reco	ommended use of the ch	nem	ical and restriction	ons on use
	ommended use rictions on use	:	Pharmaceutical Not applicable	
11001		•		
2. HAZAF	RDS IDENTIFICATION			
GHS	Classification			
	oductive toxicity	:	Category 1B	
	ific target organ toxicity - ated exposure	:	Category 1 (Pane	creas, Kidney, Heart)
GHS	label elements			
Haza	ard pictograms	:		

Hazard statements : H360D May damage the unborn child. H372 Causes damage to organs (Pancreas, Kidney, Heart) through prolonged or repeated exposure.

: Danger

Precautionary statements : Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust. P264 Wash skin thoroughly after handling.





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P270 Do not eat, drink or smoke when using this product. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Additional Labelling

The following percentage of the mixture consists of ingredient(s) with unknown hazards to the aquatic environment: 11.36 %

### Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation. Contact with dust can cause mechanical irritation or drying of the skin. May form combustible dust concentrations in air during processing, handling or other means.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	CAS-No.	Concentration (% w/w)
Diazoxide	364-98-7	>= 10 -< 30

### 4. FIRST AID MEASURES

General advice	In the case of accident or if you feel unwell, seek me vice immediately. When symptoms persist or in all cases of doubt see advice.	
If inhaled	If inhaled, remove to fresh air. Get medical attention.	
In case of skin contact	<ul> <li>In case of contact, immediately flush skin with soap of water.</li> <li>Remove contaminated clothing and shoes.</li> <li>Get medical attention.</li> <li>Wash clothing before reuse.</li> <li>Thoroughly clean shoes before reuse.</li> </ul>	and plenty
In case of eye contact	If in eyes, rinse well with water. Get medical attention if irritation develops and persi	sts.
If swallowed	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.	



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and	st important symptoms l effects, both acute and ayed	:	exposure. Contact with dus the skin.	to organs through prolonged or repeated t can cause mechanical irritation or drying of				
Pro	Protection of first-aiders		Dust contact with the eyes can lead to mechanical irritation 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).					
Not	es to physician	:	Treat symptomat	ically and supportively.				
5. FIRE	FIGHTING MEASURES							
Suit	table extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide ( Dry chemical					
Uns	suitable extinguishing dia	:	None known.					
	ecific hazards during fire-	:	concentrations, a potential dust exp	dust; fine dust dispersed in air in sufficient and in the presence of an ignition source is a plosion hazard. bustion products may be a hazard to health.				
	Hazardous combustion prod- ucts		Carbon oxides Chlorine compou Nitrogen oxides ( Sulphur oxides					
Spe ods	ecific extinguishing meth-	:	cumstances and Use water spray	g measures that are appropriate to local cir- the surrounding environment. to cool unopened containers. ged containers from fire area if it is safe to d				
	ecial protective equipment firefighters	:	Evacuate area. In the event of fir	e, wear self-contained breathing apparatus. tective equipment.				
3. ACCI	DENTAL RELEASE MEAS	SUF	RES					
tive	sonal precautions, protec- equipment and emer- icy procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal pro- t recommendations (see section 8).				
Env	vironmental precautions	:	Retain and dispo	eakage or spillage if safe to do so. se of contaminated wash water. should be advised if significant spillages				
	thods and materials for tainment and cleaning up	:	tainer for disposa	uum up spillage and collect in suitable con- II. If dust in the air (i.e., clearing dust surfaces				
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		es, as these ma leased into the Local or nationa posal of this ma employed in the mine which regu Sections 13 and	d air). hould not be allowed to accumulate on surfac- by form an explosive mixture if they are re- atmosphere in sufficient concentration. Al regulations may apply to releases and dis- terial, as well as those materials and items a cleanup of releases. You will need to deter- ulations are applicable. d 15 of this SDS provide information regarding national requirements.
7. HANDL	ING AND STORAGE		
Tech	nical measures	causing an expl Provide adequa	may accumulate and ignite suspended dust osion. te precautions, such as electrical grounding inert atmospheres.
Loca	I/Total ventilation		ilation is unavailable, use with local exhaust
Advic	e on safe handling	: Do not get on si Do not breathe Do not swallow. Avoid contact w Wash skin thoro Handle in accor practice, based sessment Keep container Keep container Keep away from Take precautior Do not eat, drin Take care to pro	dust. ith eyes. bughly after handling. dance with good industrial hygiene and safety on the results of the workplace exposure as-
Cond	litions for safe storage	Store locked up Keep tightly close	sed.
Mate	rials to avoid		ance with the particular national regulations. h the following product types: g agents

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Diazoxide	364-98-7	TWA	50 µg/m3 (OEB 3)	Internal
		Wipe limit	500 µg/100 cm <sup>2</sup>	Internal





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Engi	neering measures	design and c protect produ Containment are required			
Pers	onal protective equip	nent			
Resp	iratory protection	sure assess	If adequate local exhaust ventilation is not available or exp sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.		
	lter type I protection	: Particulates			
М	aterial	: Chemical-res	sistant gloves		
	emarks protection	If the work end mists or aero Wear a faces	uble gloving. glasses with side shields or goggles. nvironment or activity involves dusty conditions, psols, wear the appropriate goggles. shield or other full face protection if there is a direct contact to the face with dusts, mists, or		
Skin	and body protection	: Work uniforn Additional bo task being po posable suits	n or laboratory coat. ody garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, dis- s) to avoid exposed skin surfaces. iate degowning techniques to remove potentially d clothing		
Hygie	ene measures	: If exposure t eye flushing ing place. When using Wash contar The effective engineering appropriate o industrial hyg	o chemical is likely during typical use, provide systems and safety showers close to the work- do not eat, drink or smoke. minated clothing before re-use. e operation of a facility should include review of controls, proper personal protective equipment, degowning and decontamination procedures, giene monitoring, medical surveillance and the histrative controls.		

### 9. PHYSICAL AND CHEMICAL PROPERTIES

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





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	рН		:	No data available	9
	Melting	point/freezing point	:	No data available	9
	Initial b range	oiling point and boiling	:	No data available	)
	Flash p	oint	:	No data available	2
	Evapor	ation rate	:	Not applicable	
	Flammability (solid, gas)		:	May form combu cessing, handling	stible dust concentrations in air during pro- g or other means.
	Flamma	ability (liquids)	:	Not applicable	
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	
	Vapour	pressure	:	Not applicable	
	Relative	e vapour density	:	Not applicable	
	Relative density		:	No data available	)
	Density	,	:	No data available	9
	Solubili Wat	ty(ies) er solubility	:	No data available	)
	Partition octanol	n coefficient: n-	:	Not applicable	
		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	
	Oxidizir	ng properties	:	The substance of	r mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle	esize	:	No data available	9



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### **10. STABILITY AND REACTIVITY**

Reactivity Chemical stability Possibility of hazardous reac- tions		Not classified as a reactivity hazard. Stable under normal conditions. May form combustible dust concentrations in air during pro- cessing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks. Avoid dust formation.
Incompatible materials Hazardous decomposition products	:	Oxidizing agents No hazardous decomposition products are known.

### **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of : exposure	Inhalation Skin contact Ingestion Eye contact
Acute toxicity	
Not classified based on available	information.
Product:	
Acute oral toxicity :	Acute toxicity estimate: > 2,000 mg/kg Method: Calculation method
Components:	
Diazoxide:	
Acute oral toxicity :	LD50 (Rat): 980 mg/kg
	LD50 (Mouse): 444 mg/kg
	LD50 (Guinea pig): 191 mg/kg
Acute toxicity (other routes of : administration)	LD50 (Mouse): 228 mg/kg Application Route: Intravenous
	LD50 (Mouse): 326 mg/kg Application Route: Intraperitoneal
	LD50 (Rat): 510 mg/kg Application Route: Intraperitoneal

### Skin corrosion/irritation

Not classified based on available information.

## SAFETY DATA SHEET



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	ous eye damage/eye lassified based on ava		
	iratory or skin sensi		
-	sensitisation lassified based on ava	ailable information.	
-	iratory sensitisation lassified based on ava		
	n cell mutagenicity lassified based on ava	ailable information.	
	inogenicity lassified based on ava	ailable information.	
-	oductive toxicity damage the unborn ch	nild.	
<u>Com</u>	ponents:		
	oxide: ts on foetal develop-		
		Test Type: Dev Species: Rat Application Rou Developmental Result: Fetotox	ite: Intravenous Toxicity: LOAEL: 10 mg/kg body weight
			e ite: Intraperitoneal Toxicity: NOAEL: 30 mg/kg body weight
			e ite: Intraperitoneal Toxicity: LOAEL: 60 mg/kg body weight
		Test Type: Dev	elopment



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			Species: Rabbit Application Route Developmental T Result: foetal abr	oxicity: NOAEL: 7 mg/kg body weight
			Test Type: Devel Species: Rabbit Application Route Developmental T Result: foetal abr	e: Intravenous oxicity: LOAEL: 21 mg/kg body weight
			Test Type: Devel Species: Dog Application Route Developmental T Result: foetal mo	e: Intravenous oxicity: NOAEL: 5 mg/kg body weight
			Test Type: Devel Species: Dog Application Route Developmental T Result: foetal mo	e: Intravenous oxicity: LOAEL: 10 mg/kg body weight
			Test Type: Devel Species: Monkey Application Route Developmental T Result: No terato	e: Intravenous oxicity: LOAEL: 5 mg/kg body weight
	roductive toxicity - As- sment	:	May damage the	unborn child.
STO	)T - single exposure			
Not	classified based on avail	able	information.	
	OT - repeated exposure		naan Kidaan Ulaar	
	ises damage to organs (F nponents:	and	reas, Kidney, Hear	t) through prolonged or repeated exposure.
Tar	<b>zoxide:</b> get Organs essment	:	Pancreas, Kidney Causes damage exposure.	y, Heart to organs through prolonged or repeated
Rep	eated dose toxicity			
-	nponents:			
Dia	zoxide:	_	Det	
LÖA	cies \EL lication Route	:	Rat 400 mg/kg Oral	



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	sure time et Organs	: 2 Weeks : Adrenal glar	nd
Spec LOAE		: Rat	
-	⊏∟ cation Route	: 1,080 mg/kg : Oral	
Expo	sure time	: 3 Months	
	et Organs	: Pancreas	
Symp	otoms	: hyperglycen	nia
Spec		: Rat	
LOAE		: 200 mg/kg : Oral	
	cation Route	: 52 Weeks	
	et Organs		, Adrenal gland, Thyroid
Spec	ies	: Dog	
NOA	EL	: 200 mg/kg	
	cation Route	: Oral	
	sure time et Organs	: 82 Weeks : Pancreas	
	otoms	: hyperglycen	nia
-	ration toxicity	ilah la infansa stian	
	classified based on ava		
-		xposure	
Com	ponents:		
Diazo	oxide:		
Gene	eral Information		hyperglycemia, hypotension, Nausea, Vomiting,
	tion	Dizziness, V	
Inges	SUON		sodium retention, water retention, anorexia, Ab- n, Diarrhoea, tachycardia, Palpitation
2. ECOL	OGICAL INFORMATI	ON	
Ecot	oxicity		
<u>Com</u>	ponents:		
Diazo	oxide:		
Ecot	oxicology Assessme	nt	
	e aquatic toxicity		s cannot be excluded
Chro	nic aquatic toxicity	: Toxic effects	s cannot be excluded
Pere	istence and degradal	oility	
	ata available		
INO G	ala avalidule		



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Bioa	ccumulative potential			
Com	ponents:			
Partit	<b>oxide:</b> ion coefficient: n- iol/water	: log Pow: 1.2		
	<b>lity in soil</b> ata available			
	<b>r adverse effects</b> ata available			
13. DISPO	SAL CONSIDERATION	IS		
Disp	osal methods			
-	e from residues		e of waste into sewer.	
Conta	aminated packaging	<ul> <li>Dispose of in accordance with local regulations.</li> <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>		
4. TRAN	SPORT INFORMATION			
Inter	national Regulations			
Prope Class Subs	umber er shipping name s idiary risk ing group	<ul> <li>Not applicable</li> </ul>		
UN/IE Prope Class Subs Packi Labe	er shipping name idiary risk ing group Is ing instruction (cargo	<ul> <li>Not applicable</li> </ul>		
	ing instruction (passen- ircraft)	: Not applicable		
UN n Prope Class Subs	<b>5-Code</b> umber er shipping name s idiary risk ing group	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>		





sion	Revision Date: 2023/09/30	SDS Number: 4089866-00009	Date of last issue: 2023/04/04 Date of first issue: 2019/03/20
	s Code le pollutant	<ul> <li>Not applicable</li> <li>Not applicable</li> <li>Not applicable</li> </ul>	
Trans		-	POL 73/78 and the IBC Code
-	ial precautions for u pplicable	ser	
	LATORY INFORMAT		gislation specific for the substance or n
Minis ter of	Industry Regulation		ER/4/2013 concerning the Revision of M 2009 concerning Globally Harmonized S Is.
	lation of the Ministe rdous to Health	r of Health No. 472 of	1996 on the Safeguarding of Substances
Haza	rdous substances tha	t must be registered	: Not applicable
Gove stanc	-	No. 74 of 2001 on the N	lanagement of Hazardous and Toxic Su
Haza	rdous substances app	proved for use	: Not applicable
Prohi	bited substances		: Not applicable
Restr	icted substances		: Not applicable
Regu Mate		y of Trade No. 7 of 202	2 on Distribution and Control of Hazard
	of hazardous materia ol, Annex I	Is subject to distribution	and : Not applicable
	of hazardous materia ol, Annex II	Is subject to distribution	and : Not applicable
The o		product are reported in : not determined	the following inventories:
DSL		: not determined	
	С	: not determined	
IECS			



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Furt	her information			
	ces of key data used to bile the Safety Data et	:		data, data from raw material SDSs, OECD arch results and European Chemicals Agen- ropa.eu/
Date	format	:	yyyy/mm/dd	

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR -Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration: NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate: NOM - Official Mexican Norm: NTP - National Toxicology Program: NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, 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; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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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