

Diazoxide (<15%) Formulation

	Version 2.1	Revision Date: 30.09.2023	SDS Number: 4089869-00009	Date of last issue: 04.04.2023 Date of first issue: 20.03.2019
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Diazoxide (<15%) Formulation					
Manufacturer or supplier's details							
Company name of supplier	:	MSD					
Address	:	126 E. Lincoln Avenue					
		Rahway, New Jersey U.S.A. 07065					
Telephone	:	908-740-4000					
Emergency telephone	:	1-908-423-6000					
E-mail address	:	EHSDATASTEWARD@msd.com					
Recommended use of the chemical and restrictions on use							
Recommended use Restrictions on use	:	Pharmaceutical Not applicable					

SECTION 2. HAZARDS IDENTIFICATION

GHS	Classification	
0.10	oluconioution	

Reproductive toxicity	:	Category 1B
Specific target organ toxicity - repeated exposure	:	Category 1 (Pancreas, Kidney, Heart)

GHS label elements

GHS label elements Hazard pictograms	:	
Signal Word	:	Danger
Hazard Statements	:	H360D May damage the unborn child. H372 Causes damage to organs (Pancreas, Kidney, Heart) through prolonged or repeated exposure.
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. 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.





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Disposal:

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

Other hazards

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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Diazoxide	364-98-7	>= 10 -< 20

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
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 swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	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.
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).
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray Alcohol-resistant foam
		Alconor resistant roam
		Carbon dioxide (CO2)



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me Sp	Unsuitable extinguishing media Specific hazards during fire fighting		:	concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient id in the presence of an ignition source is a osion hazard. ustion products may be a hazard to health.
Ha uc		ous combustion prod-	:	Carbon oxides Chlorine compounds Nitrogen oxides (NOx) Sulfur oxides	
Sp od		extinguishing meth-	:		
		protective equipment ighters	:	In the event of fire Use personal prot	, wear self-contained breathing apparatus. ective equipment.
SECTIO	ON 6.	ACCIDENTAL RELE	ASE	EMEASURES	
tiv	e equ	al precautions, protec- ipment and emer- rocedures	 C- : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8). 		ng advice (see section 7) and personal
En	iviron	mental 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. 	
		s and materials for ment and cleaning up	:	 Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dispersal of dust in the air (i.e., clearing dust sur with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if the released into the atmosphere in sufficient concentratio Local or national regulations may apply to releases and disposal of this material, as well as those materials and employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regulation requirements. 	

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.



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Loca	al/Total ventilation	: If sufficient ve ventilation.	entilation is unavailable, use with local exhaust				
Advice on safe handling		: Do not get on Do not breath Do not swallo Avoid contact Wash skin the Handle in acc practice, base assessment Keep containe Keep containe Keep away fre Take precauti Do not eat, dr	 Do not get on skin or clothing. Do not breathe dust. Do not swallow. Avoid contact with eyes. Wash skin thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment 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 				
Hygi	ene measures	: If exposure to flushing syste place. When using c Wash contam The effective engineering c appropriate d industrial hyg	chemical is likely during typical use, provide eye ms and safety showers close to the working lo not eat, drink or smoke. inated clothing before re-use. operation of a facility should include review of ontrols, proper personal protective equipment, egowning and decontamination procedures, iene monitoring, medical surveillance and the strative controls.				
Con	ditions for safe storage	 Keep in properly labeled containers. Store locked up. Keep tightly closed. Store in accordance with the particular national regulations 					
Mate	erials to avoid	: Do not store v Strong oxidizi	with the following product types: ng agents substances and mixtures				

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients 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 ²	Internal

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



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		the compound containment o Minimize oper	,			
Pers	onal protective equip	nent				
Resp	iratory protection	exposure ass	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.			
	lter type I protection	: Particulates ty				
М	Material :		istant gloves			
	emarks protection	: Wear safety g If the work en mists or aeros Wear a faces	Consider double gloving. 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			
Skin	and body protection	Additional boo task being pe disposable su	or laboratory coat. dy garments should be used based upon the rformed (e.g., sleevelets, apron, gauntlets, hits) to avoid exposed skin surfaces. ate degowning techniques to remove potentially clothing.			

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	powder
Color	:	white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form combustible dust concentrations in air during proce- ssing, handling or other means.
Flammability (liquids)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	No data available



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		explosion limit / Lower bility limit	:	No data available	9
	Vapor p	pressure	:	Not applicable	
	Relative	e vapor density	:	Not applicable	
	Relative	e density	:	No data available	9
	Density		:	No data available)
	Solubili Wat	ty(ies) er solubility	:	No data available	9
		n coefficient: n-	:	Not applicable	
	octanol Autoign	ition temperature	:	No data available	9
	Decomposition temperature		:	No data available	9
	Viscosi Visc	ty osity, 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	2
	Particle	size	:	No data available	9

SECTION 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 processing, handling or other means. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials	 Heat, flames and sparks. Avoid dust formation. Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact



ersion 1	Revision Date: 30.09.2023	-	98 Number: 89869-00009	Date of last issue: 04.04.2023 Date of first issue: 20.03.2019
Ingest Eye c	tion ontact			
Acute	e toxicity			
Not cl	assified based on availa	ble	information.	
Produ				
Acute	oral toxicity	:	Acute toxicity estin Method: Calculation	mate: > 5,000 mg/kg on method
Comp	oonents:			
Diazo	xide:			
Acute	oral toxicity	:	LD50 (Rat): 980 n	ng/kg
			LD50 (Mouse): 44	l4 mg/kg
			LD50 (Guinea pig): 191 mg/kg
	toxicity (other routes of istration)	:	LD50 (Mouse): 22 Application Route	
			LD50 (Mouse): 32 Application Route	
			LD50 (Rat): 510 n Application Route	
Skin o	corrosion/irritation			
Not cl	assified based on availa	ble	information.	
	us eye damage/eye irri assified based on availa			
	iratory or skin sensitiza			
-	-			
-	sensitization assified based on availa	hle	information	
	iratory sensitization	210		
-	assified based on availa	ble	information.	
Germ	cell mutagenicity			
Not cl	assified based on availa	ble	information.	
	nogenicity assified based on availa	ble	information	
	oductive toxicity	510		
-	lamage the unborn child			
•	oonents:			
Diazo				
	s on fetal development	•	Test Type: Develo	



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		Application Route: Oral Developmental Toxicity: NOAEL: 30 mg/kg body weight Result: Effects on fetal development., Fetal abnormalities.
		Test Type: Development Species: Rat Application Route: Oral Developmental Toxicity: LOAEL: 100 mg/kg body weight Result: Effects on fetal development., Fetal 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: Fetal mortality.
		Test Type: Development Species: Mouse Application Route: Intraperitoneal Developmental Toxicity: LOAEL: 60 mg/kg body weight Result: Fetal mortality.
		Test Type: Development Species: Rabbit Application Route: Intravenous Developmental Toxicity: NOAEL: 7 mg/kg body weight Result: Fetal abnormalities.
		Test Type: Development Species: Rabbit Application Route: Intravenous Developmental Toxicity: LOAEL: 21 mg/kg body weight Result: Fetal abnormalities.
		Test Type: Development Species: Dog Application Route: Intravenous Developmental Toxicity: NOAEL: 5 mg/kg body weight Result: Fetal mortality.
		Test Type: Development Species: Dog Application Route: Intravenous Developmental Toxicity: LOAEL: 10 mg/kg body weight Result: Fetal mortality.
		Test Type: Development Species: Monkey Application Route: Intravenous





rsion	Revision Date: 30.09.2023		S Number: 89869-00009	Date of last issue: 04.04.2023 Date of first issue: 20.03.2019
				Toxicity: LOAEL: 5 mg/kg body weight togenic effects.
Repro sessn	oductive toxicity - As- nent	:	May damage th	ne unborn child.
STOT	-single exposure			
	assified based on avai	lable	information.	
STOT	-repeated exposure			
Cause	es damage to organs (Panc	reas, Kidney, He	eart) through prolonged or repeated exposu
<u>Comp</u>	oonents:			
Diazo	oxide:			
	et Organs ssment	:	,	ney, Heart le to organs through prolonged or repeated
Repe	ated dose toxicity			
<u>Com</u>	oonents:			
Diazo	oxide:			
Speci		:	Rat	
LOAE		:	400 mg/kg	
	cation Route	:	Oral	
	sure time	:	2 Weeks	
Targe	et Organs	:	Adrenal gland	
Speci	es	:	Rat	
LOAE		:	1,080 mg/kg	
	cation Route	:	Oral	
	sure time	:	3 Months	
-	et Organs	:	Pancreas	
Symp	toms	:	hyperglycemia	
Speci	es	:	Rat	
LÓAE	E	:	200 mg/kg	
	cation Route	:	Oral	
Applic		•	52 Weeks	
Applic Expos	sure time	•		
Applic Expos	sure time t Organs	:	Heart, Liver, A	drenal gland, Thyroid
Applic Expos Targe Speci	et Organs es	:	Heart, Liver, A	drenal gland, Thyroid
Applic Expos Targe Speci NOAE	et Organs es EL	:	Dog 200 mg/kg	drenal gland, Thyroid
Applic Expose Targe Speci NOAE Applic	et Organs es EL cation Route	:	Dog 200 mg/kg Oral	drenal gland, Thyroid
Applic Expose Targe Speci NOAE Applic Expose	et Organs EL cation Route sure time	:	Dog 200 mg/kg Oral 82 Weeks	drenal gland, Thyroid
Applic Expose Targe Speci NOAE Applic Expose	et Organs es EL cation Route sure time et Organs		Dog 200 mg/kg Oral	drenal gland, Thyroid

Not classified based on available information.



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Expe	erience with human ex	posı	ire			
<u>Com</u>	ponents:					
Diaz	oxide:					
Gene	eral Information	:	: Symptoms: hyperglycemia, hypotension, Nausea,			
Inges			ness um retention, water retention, anorexia, Ab- arrhea, tachycardia, Palpitation			
SECTION	12. ECOLOGICAL INF	ORM	IATION			
Ecot	oxicity					
	-					
Com	ponents:					
Diaz	oxide:					
	oxicology Assessmen e aquatic toxicity	t :	Toxic effects can	not be evoluded		
Acute		•		not be excluded		
Chro	nic aquatic toxicity	:	Toxic effects can	not be excluded		
	istence and degradab i ata available	lity				
Bioa	ccumulative potential					
<u>Com</u>	ponents:					
Diaz	oxide:					
	tion coefficient: n- nol/water	:	log Pow: 1.2			
Mobi	ility in soil					
No d	ata available					
Othe	r adverse effects					
No d	ata available					

Disposal methods		
Waste from residues	:	Do not dispose of waste into sewer. Dispose of in accordance with local regulations.
Contaminated packaging	:	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 INFORMATION

International Regulations

UNRTDG Not regulated as a dangerous good





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	-DGR egulated as a dangero	us good	
-	-Code egulated as a dangerou	us good	
	sport in bulk accordin pplicable for product a	-	RPOL 73/78 and the IBC Code
Dome	estic regulation		
	-002-SCT egulated as a dangerou	us good	
-	ial precautions for us pplicable	ser	
SECTION	15. REGULATORY IN	IFORMATION	
Safet mixtu		mental regulations/l	egislation specific for the substance or
esser	ral Law for the control ontial chemical products action of the second seco	and machinery for	s, : Not applicable

The ingredients of this product are reported in the following inventories:

AICS	:	not determined
DSL	:	not determined
IECSC	:	not determined

SECTION 16. OTHER INFORMATION

Revision Date	:	30.09.2023
Date format	:	dd.mm.yyyy

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 Con-



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centration 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

Sources of key data used to compile the Material Safety Data Sheet

: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/

The information is considered as correct, but not exhaustive, and will be used only as a guide, which is based in the current knowledge of the substance or mixture, and is applicable to proper safety precautions for the product.

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