



Version 2.1	Revision Date: 30.09.2023	SDS Number: 4088926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019				
SECTIC	ON 1: Identification of	the substance/r	nixture and of the company/undertaking				
1.1 Proc	luct identifier						
Tra	de name	: Diazoxide (>	30%) Formulation				
Use	vant identified uses of e of the Sub- nce/Mixture	the substance or i : Pharmaceuti	nixture and uses advised against cal				
Rec on t	commended restrictions use	: Not applicabl	e				
1.3 Deta	ils of the supplier of the	e safety data shee	t				
Cor	npany	: MSD 117 16th Roa 1685 Halfwa	ad y house, Midrand, South Africa				
Tele	ephone	: +27 11 655 3	000				
	ail address of person consible for the SDS	: EHSDATAST	EWARD@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)

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)

Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H360D May damage the unborn child. H372 Causes damage to organs through prolonged or re- peated exposure.

## SAFETY DATA SHEET



# **Diazoxide (>30%) Formulation**

Version 2.1	Revision Date: 30.09.2023	SDS Number: 4088926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
Preca	utionary statements	Prevention:	
		P260 Do not b P264 Wash ski P270 Do not ea	becial instructions before use. reathe dust. in thoroughly after handling. at, drink or smoke when using this product. btective gloves/ protective clothing/ eye protec- tion.
		<b>Response:</b> P308 + P313 II attention.	F exposed or concerned: Get medical advice/

Hazardous components which must be listed on the label: Diazoxide

#### **Additional Labelling**

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.

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

#### 4.1 Description of 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.

# SAFETY DATA SHEET



Version 2.1	Revision Date: 30.09.2023		OS Number: 88926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
Prote	Protection of first-aiders		and use the recor	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).
lf inha	aled	:	If inhaled, remove Get medical atten	
In case of skin contact		:	of water. Remove contamir Get medical atten Wash clothing bet	
In cas	se of eye contact	:	If in eyes, rinse w Get medical atten	ell with water. tion if irritation develops and persists.
lf swa	If swallowed		If swallowed, DO Get medical atten Rinse mouth thore	
4.2 Most i	mportant symptoms a	nd e	effects. both acute	and delaved
Risks		:	May damage the	-
			the skin.	can cause mechanical irritation or drying of the eyes can lead to mechanical irritation.
4.3 Indica	tion of any immediate	mee	dical attention and	I special treatment needed
Treat	-	:		cally and supportively.
SECTION	V 5: Firefighting meas	sur	es	
5.1 Extinc	uishing media			
-	ble extinguishing media	:	Water spray Alcohol-resistant Carbon dioxide (C Dry chemical	
Unsu media	itable extinguishing a	:	None known.	
5.2 Specia	al hazards arising from	h the	e substance or mix	xture
-	ific hazards during fire-	:	Avoid generating concentrations, ar potential dust exp	dust; fine dust dispersed in air in sufficient nd in the presence of an ignition source is a
Haza	rdous combustion prod-	:	Carbon oxides	



Version 2.1	Revision Date: 30.09.2023		DS Number: 88926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
ucts			Chlorine compou Nitrogen oxides ( Sulphur oxides	
5.3 Advice	for firefighters			
Special protective equipment for firefighters		:		e, wear self-contained breathing apparatus. tective equipment.
Specific extinguishing meth- ods		:	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 do

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

#### 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	<ul> <li>Avoid release to the environment.</li> <li>Prevent further leakage or spillage if safe to do so.</li> <li>Retain and dispose of contaminated wash water.</li> <li>Local authorities should be advised if significant spillages cannot be contained.</li> </ul>

#### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up	<ul> <li>Sweep up or vacuum up spillage and collect in suitable crainer for disposal. Avoid dispersal of dust in the air (i.e., clearing dust surface with compressed air). Dust deposits should not be allowed to accumulate on sures, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Local or national regulations may apply to releases and deposal of this material, as well as those materials and item employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regar certain local or national requirements.</li> </ul>	ces rfac- - lis- is ter-
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### 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



Version 2.1	Revision Date: 30.09.2023		S Number: 38926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019		
Local/Total ventilation Advice on safe handling Hygiene measures		: :	causing an explosion. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. If sufficient ventilation is unavailable, use with local exhaust ventilation. 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 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. 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.			
			appropriate dego	ols, proper personal protective equipment, wning and decontamination procedures, monitoring, medical surveillance and the tive controls.		
7.2 Condi	tions for safe storage,	incl				
Requ	irements for storage and containers	:	Keep in properly	labelled containers. Store locked up. Keep ore in accordance with the particular national		
Advid	e on common storage	:	Strong oxidizing a	stances and mixtures		
7.3 Speci	fic end use(s)					
-	ific use(s)	:	No data available			

Specific use(s)

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

### 8.1 Control parameters

## **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis



VersionRevision Date:2.130.09.2023			8 Number: 8926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019		
Diazo	oxide	364-98-7	TWA	50 µg/m3 (OEB 3)	Internal	
			Wipe limit	500 µg/100 cm <sup>2</sup>	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 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	:	Consider double gloving.
Skin and body protection	:	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	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection.
Filter type	:	Particulates type (P)

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

#### 9.1 Information on basic physical and chemical properties

internation en sacre prijerea	~	a enemiear preper
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



Vers 2.1	sion	Revision Date: 30.09.2023		S Number: 38926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
	Flamm	ability (solid, gas)	:	May form explos dling or other me	ive dust-air mixture during processing, han- ans.
		explosion limit / Upper ability limit	:	No data available	9
		explosion limit / Lower ability limit	:	No data available	9
	Vapou	rpressure	:	Not applicable	
	Relativ	e vapour density	:	Not applicable	
	Relativ	e density	:	No data available	9
	Density	/	:	No data available	9
	Partitio octano	ter solubility n coefficient: n-	:	No data available Not applicable No data available	
	Decom	position temperature	:	No data available	9
	Viscosi Visc	ity cosity, kinematic	:	Not applicable	
	Explos	ive properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2		nformation ability (liquids)	:	Not applicable	
	Molecu	ılar weight	:	No data available	9
	Particle	e size	:	No data available	9

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

#### 10.1 Reactivity

Not classified as a reactivity hazard.

### 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



Version 2.1	Revision Date: 30.09.2023		S Number: 38926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
Cond	itions to avoid	:	Heat, flames and Avoid dust forma	
10.5 Incor	npatible materials			
Mater	rials to avoid	:	Oxidizing agents	
10.6 Haza	rdous decomposition p	oroc	lucts	
No ha	azardous decomposition	pro	ducts are known.	
SECTION	11: Toxicological in	for	mation	
11.1 Infor	mation on toxicologica	l eff	ects	
Inform	nation on likely routes of	:	Inhalation	
expos	sure		Skin contact Ingestion	
			Eye contact	
Acute	e toxicity			
Not c	lassified based on availa	ble	information.	
Prod	uct:			
Acute	e oral toxicity	:	Acute toxicity estimeters Method: Calculation	mate: > 2.000 mg/kg on method
<u>Com</u>	ponents:			
Diazo	oxide:			
Acute	e oral toxicity	:	LD50 (Rat): 980 n	ng/kg
			LD50 (Mouse): 44	4 mg/kg
			LD50 (Guinea pig	): 191 mg/kg
	e toxicity (other routes of	:	LD50 (Mouse): 22	
admir	nistration)		Application Route	: Intravenous
			LD50 (Mouse): 32 Application Route	
			LD50 (Rat): 510 n Application Route	
•••••	corrosion/irritation lassified based on availa	ble	information.	
Serio	ous eye damage/eye irri	tati	on	
Not c	lassified based on availa	ble	information.	
Resp	iratory or skin sensitis	atio	n	
Skin	sensitisation			
Not c	lassified based on availa	ble	information	

Not classified based on available information.

# SAFETY DATA SHEET



Vers 2.1	sion	Revision Date: 30.09.2023	-	)S Number: 88926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
	-	ratory sensitisation		in former time.	
		assified based on availa	adie	information.	
		cell mutagenicity assified based on availa	able	information.	
		nogenicity			
		assified based on availa	able	information.	
	Repro	oductive toxicity			
	May d	amage the unborn child	d.		
	Comp	onents:			
	Diazo	xide:			
	Effects ment	s on foetal develop-	:		
				Test Type: Develo Species: Rat Application Route Developmental To Result: Fetotoxicit	: Intravenous oxicity: LOAEL: 10 mg/kg body weight
				Test Type: Develor Species: Mouse Application Route Developmental To Result: foetal mor	: Intraperitoneal oxicity: NOAEL: 30 mg/kg body weight
				Test Type: Develor Species: Mouse Application Route Developmental To Result: foetal mor	: Intraperitoneal pxicity: LOAEL: 60 mg/kg body weight
				Test Type: Develo Species: Rabbit Application Route Developmental To Result: foetal abn	: Intravenous pxicity: NOAEL: 7 mg/kg body weight
				Test Type: Develo Species: Rabbit Application Route Developmental To Result: foetal abn	: Intravenous oxicity: LOAEL: 21 mg/kg body weight



Version 2.1	Revision Date: 30.09.2023	SDS Number: 4088926-0001	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
		Species: D Application Developme	Development og Route: Intravenous ental Toxicity: NOAEL: 5 mg/kg body weight tal mortality
		Species: D Application Developme	Development og Route: Intravenous ental Toxicity: LOAEL: 10 mg/kg body weight tal mortality
		Species: M Application Developme	Development onkey Route: Intravenous ental Toxicity: LOAEL: 5 mg/kg body weight teratogenic effects
Repro sessn	oductive toxicity - As- nent	: May damag	ge the unborn child.
Not c	F - single exposure lassified based on avail F - repeated exposure	able information.	
	es damage to organs th ponents:	rough prolonged	or repeated exposure.
Diazo	oxide:		
	et Organs ssment		Kidney, Heart mage to organs through prolonged or repeated
Repe	ated dose toxicity		
<u>Com</u>	ponents:		
	oxide:		
Expos		: Rat : 400 mg/kg : Oral : 2 Weeks : Adrenal gla	
Expos	EL cation Route sure time et Organs	: Rat : 1.080 mg/ : Oral : 3 Months : Pancreas : hyperglyce	
Speci LOAE Applic		: Rat : 200 mg/kg : Oral	



VersionRevision Date:2.130.09.2023	-	OS Number: 88926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019			
Exposure time Target Organs	:	52 Weeks Heart, Liver, Adre	enal gland, Thyroid			
Species NOAEL Application Route Exposure time Target Organs Symptoms	:	Dog 200 mg/kg Oral 82 Weeks Pancreas hyperglycemia				
Aspiration toxicity Not classified based on availa	ble	information.				
Experience with human exp	osi	ıre				
Components:						
<b>Diazoxide:</b> General Information	:		glycemia, hypotension, Nausea, Vomiting,			
Ingestion	:	<ul> <li>Dizziness, Weakness</li> <li>Symptoms: sodium retention, water retention, anorexia, Ab- dominal pain, Diarrhoea, tachycardia, Palpitation</li> </ul>				
SECTION 12: Ecological info	ma	tion				
12.1 Toxicity						
Components:						
Diazoxide:						
Ecotoxicology Assessment Acute aquatic toxicity	:	Toxic effects can	not be excluded			
Chronic aquatic toxicity	:	Toxic effects can	not be excluded			
<b>12.2 Persistence and degradabil</b> No data available	ity					
12.3 Bioaccumulative potential						
Components:						
<b>Diazoxide:</b> Partition coefficient: n- octanol/water	:	log Pow: 1,2				
<b>12.4 Mobility in soil</b> No data available						
12.5 Results of PBT and vPvB as	sse	ssment				
Product: Assessment	:		nixture contains no components considered stent, bioaccumulative and toxic (PBT), or			
		11 / 15				



Version 2.1	Revision Date: 30.09.2023	SDS Number: 4088926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
		very persistent 0.1% or higher.	and very bioaccumulative (vPvB) at levels of
12.6 Othe	r adverse effects		
Prod	uct:		
Endo tial	crine disrupting poten-	ered to have er REACH Article	mixture does not contain components consid- adocrine disrupting properties according to 57(f) or Commission Delegated regulation 0 or Commission Regulation (EU) 2018/605 at or higher.

## **SECTION 13: Disposal considerations**

13.1 Waste treatment methods	
Product	<ul> <li>Dispose of in accordance with local regulations.</li> <li>According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.</li> <li>Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.</li> <li>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



Version 2.1	Revision Date: 30.09.2023		DS Number: 88926-00010	Date of last issue: 04.04.2023 Date of first issue: 21.03.2019
IMDG	6	:	Not regulated as	a dangerous good
ΙΑΤΑ		:	-	a dangerous good
14.4 Pack	ing group		C C	
ADN		:	Not regulated as	a dangerous good
ADR		:	-	a dangerous good
RID		:	-	a dangerous good
IMDG	6	:	-	a dangerous good
ΙΑΤΑ	(Cargo)	:	Not regulated as	a dangerous good
ΙΑΤΑ	(Passenger)	:	Not regulated as	a dangerous good
Not re	ronmental hazards egulated as a dangerou ial precautions for us	-	od	
-	pplicable			
14.7 Tran	sport in bulk accordi	ng to	Annex II of Marpe	ol and the IBC Code
Rema	arks	:	Not applicable fo	r product as supplied.
	N 15: Regulatory inf			gislation specific for the substance or mix-
ture The c AICS	•	rodu :	ct are reported in not determined	the following inventories:
DSL		:	not determined	
IECS	С	:	not determined	
A Chemica	nical safety assessment l	has n	ot been carried out	i.
SECTION	N 16: Other informa	tion		
Other	rinformation	:		nges have been made to the previous version the body of this document by two vertical

#### 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
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Version	Revision Date: 30.09.2023	SDS Number:	Date of last issue: 04.04.2023
2.1		4088926-00010	Date of first issue: 21.03.2019
Repr.	RE	: Reproductive toxi	city
STOT		: Specific target or	gan toxicity - repeated exposure
Watery Road; ing of tion (E of the Europe associ cy Sch sociate borato Transp rying D tional IMDG - Indus KECI - tion; L tional NO(A) fect Le Chemi of Che stance tative) Parliar strictio Goods SVHC Thailan - Unite	ways; ADR - Agreeme AIIC - Australian Inven Materials; bw - Body w C) No 1272/2008; CMI German Institute for S ean Chemicals Agency ated with x% response hedule; ENCS - Existing ed with x% growth rate ry Practice; IARC - Inte out Association; IBC - Dangerous Chemicals in Civil Aviation Organiza - International Maritime strial Safety and Health Korea Existing Chemic D50 - Lethal Dose to 5 Convention for the Pre EC - No Observed (Ad evel; NOELR - No Ob cals; OECD - Organiza emical Safety and Pollu ; PICCS - Philippines In Structure Activity Rela nent and of the Coun n of Chemicals; RID 5 by Rail; SADT - Self-A - Substance of very h nd Existing Chemicals	ent concerning the Inter- teriory of Industrial Chem- veight; CLP - Classifica R - Carcinogen, Mutage tandardisation; DSL - r; EC-Number - Europe ; ELx - Loading rate as g and New Chemical S e response; GHS - Gl- ernational Agency for International Code for n Bulk; IC50 - Half ma- tion; IECSC - Inventor e Dangerous Goods; IM n Law (Japan); ISO - I cals Inventory; LC50 - 50% of a test population evention of Pollution f liverse) Effect Concent servable Effect Loadin ation for Economic Co- ution Prevention; PBT nventory of Chemicals tionship; REACH - Re cil concerning the Re - Regulations concern Accelerating Decomposi igh concern; TCSI - T Inventory; TSCA - Toxi - United Nations Record	tional Carriage of Dangerous Goods by Inland ernational Carriage of Dangerous Goods by nicals; ASTM - American Society for the Test- tion Labelling Packaging Regulation; Regula- gen or Reproductive Toxicant; DIN - Standard Domestic Substances List (Canada); ECHA - ean Community number; ECx - Concentration associated with x% response; EmS - Emergen- Substances (Japan); ErCx - Concentration as- obally Harmonized System; GLP - Good La- Research on Cancer; IATA - International Air the Construction and Equipment of Ships car- ximal inhibitory concentration; ICAO - Interna- ry of Existing Chemical Substances in China; IO - International Maritime Organization; ISHL nternational Organisation for Standardization; Lethal Concentration to 50 % of a test popula- on (Median Lethal Dose); MARPOL - Interna- rom Ships; n.o.s Not Otherwise Specified; ration; NO(A)EL - No Observed (Adverse) Ef- ng Rate; NZIoC - New Zealand Inventory of operation and Development; OPPTS - Office - Persistent, Bioaccumulative and Toxic sub- and Chemical Substances; (Q)SAR - (Quanti- gulation (EC) No 1907/2006 of the European gistration, Evaluation, Authorisation and Re- ing the International Carriage of Dangerous sition Temperature; SDS - Safety Data Sheet; aiwan Chemical Substance Inventory; TECI - ic Substances Control Act (United States); UN mmendations on the Transport of Dangerous lative

#### Further information

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



Version	Revision Date:	SDS Number:	Date of last issue: 04.04.2023
2.1	30.09.2023	4088926-00010	Date of first issue: 21.03.2019

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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