

Vers 4.0	ion	Revision Date: 23.03.2020		S Number: 38572-00007	Date of last issue: 13.09.2019 Date of first issue: 18.05.2017			
SEC	SECTION 1. PRODUCT AND COMPANY IDENTIFICATION							
	Produc	t name	:	Betamethasone (0.05%) Ointment Formulation				
	Manufacturer or supplier's d			ls				
	Company			Organon & Co.				
	Addres	S	:	30 Hudson Street, 33nd floor Jersey City, New Jersey, U.S.A 07302				
	Teleph	one	:	551-430-6000				
	Emerge	ency telephone	:	215-631-6999				
	E-mail	address	:	EHSSTEWARD	@organon.com			
Recommended use of the ch Recommended use				ical and restriction Pharmaceutical	ons on use			
SEC	TION 2	. HAZARDS IDENTIFI	САТ	ION				
	GHS C	lassification						
	Reprod	luctive toxicity	:	Category 1B				
		c target organ toxicity - ed exposure	:	Category 1 (Pitui gland, Blood, Ad	tary gland, Immune system, muscle, thymus renal gland)			
	Long-te hazard	erm (chronic) aquatic	:	Category 1				
	GHS la	ibel elements						
		l pictograms	:					
	Signal	Word	:	Danger				
	Hazard	Statements	:	H372 Causes da system, muscle, prolonged or rep	age the unborn child. mage to organs (Pituitary gland, Immune thymus gland, Blood, Adrenal gland) through eated exposure. to aquatic life with long lasting effects.			

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/ fume/ gas/ mist/ vapors/ spray.



ersion)	Revision Date: 23.03.2020	SDS Number: 1688572-00007	Date of last issue: 13.09.2019 Date of first issue: 18.05.2017
		P270 Do not e P273 Avoid rel	in thoroughly after handling. at, drink or smoke when using this product. lease to the environment. otective gloves/ protective clothing/ eye protec ection.
		Response: P308 + P313 I attention. P391 Collect s	F exposed or concerned: Get medical advice/ pillage.
		Storage: P405 Store loc	sked up.
		Disposal: P501 Dispose disposal plant.	of contents/ container to an approved waste
••	r hazards which do r known.	not result in classifica	tion

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Petrolatum	8009-03-8	>= 70 -< 90
Propylene glycol monostearate	1323-39-3	>= 1 -< 5
Betamethasone	378-44-9	>= 0,025 -< 0,1

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	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
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	:	



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Pro	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).			
No	tes to physician	:		cally and supportively.		
SECTIO	ON 5. FIRE-FIGHTING ME	ASU	IRES			
Su	Suitable extinguishing media Unsuitable extinguishing media Specific hazards during fire fighting Hazardous combustion prod- ucts		Water spray Alcohol-resistant Carbon dioxide (0 Dry chemical			
			None known.			
				explosive mixtures with air. Dustion products may be a hazard to health.		
			Carbon oxides			
Sp od:	ecific extinguishing meth- S	:	cumstances and Use water spray f	measures that are appropriate to local cir- the surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do		
	Special protective equipment for fire-fighters		In the event of fire	e, wear self-contained breathing apparatus. tective equipment.		
SECTIO	fire-fighters DN 6. ACCIDENTAL RELE rsonal precautions, protec-		EMEASURES	tective equipment.		

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	:	Discharge into the environment must be avoided. 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.
Methods and materials for containment and cleaning up	:	Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	If sufficient ventilation is unavailable, use with local exhaust ventilation.



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Advice on safe handling Conditions for safe storage		 Do not get on skin or clothing. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and saf practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to environment. 			
		Store locked up Keep tightly clo			
Mater	ials to avoid		th the following product types: g agents		

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
Petrolatum	8009-03-8	CMP (Mist)	5 mg/m³	AR OEL
	Further informativapour, lung	ation: Sampled b	by a method which do	es not include
		CMP - CPT (Mist)	10 mg/m ³	AR OEL
	Further informa	ation: lung		
		TWA (Inhalable particulate matter)	5 mg/m³	ACGIH
Propylene glycol monostearate	1323-39-3	CMP	10 mg/m ³	AR OEL
	Further informa	ation: A4 - Not c	assifiable as a huma	n carcinogen
		TWA (Inhalable particulate matter)	10 mg/m³	ACGIH
		(Inhalable particulate	10 mg/m ³ 3 mg/m ³	
Betamethasone	378-44-9	(Inhalable particulate matter) TWA (Respirable particulate		ACGIH
Betamethasone	378-44-9 Further informa	(Inhalable particulate matter) TWA (Respirable particulate matter) TWA	3 mg/m ³	ACGIH

Engineering measures

: Containment technologies suitable for controlling compounds are required to control at source and to prevent migration of the compound to uncontrolled areas (e.g., vacuum conveying



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		stationary co All engineerin design and o protect produ Essentially n	d system, packout head with inflatable seal from ntainer, ventilated enclosure, etc.). ng controls should be implemented by facility perated in accordance with GMP principles to acts, workers, and the environment. o open handling permitted. processing systems or containment technologies.				
Perso	onal protective equipr	nent					
Respiratory protection Filter type Hand protection		exposure ass recommende	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection. Particulates type				
Ma	aterial	: Chemical-res	Chemical-resistant gloves				
	emarks protection	: Wear safety If the work er mists or aero 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		: Work uniform Additional bo task being pe disposable s	n or laboratory coat. dy garments should be used based upon the erformed (e.g., sleevelets, apron, gauntlets, uits) to avoid exposed skin surfaces. ate degowning techniques to remove potentially d clothing.				
Hygie	ene measures	: If exposure to eye flushing working plac 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				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	ointment
Color	:	white to off-white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	No data available



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	Initial boiling point and boiling range Flash point Evaporation rate		:	No data available	
F			:	> 93,3 °C	
E			:	Not applicable	
F	lamma	bility (solid, gas)	:	Not classified as	a flammability hazard
F	-lamma	bility (liquids)	:	Not applicable	
		xplosion limit / Upper pility limit	:	No data available	
		xplosion limit / Lower bility limit	:	No data available	
١	Vapor pressure Relative vapor density Relative density		:	No data available	
F			:	Not applicable	
F			:	No data available	
0	Density		:	No data available	
S	Solubilit Wate	y(ies) er solubility	:	No data available	
	Partition	coefficient: n-	:	Not applicable	
		ition temperature	:	No data available	
۵	Decomp	oosition temperature	:	No data available	
١	Viscosity Viscosity, kinematic Explosive properties		:	Not applicable	
E			:	Not explosive	
C	Oxidizin	g properties	:	The substance or	mixture is not classified as oxidizing.
F	Particle	size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials		None known. Oxidizing agents



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Haza produ		:	No hazardous decomposition products are known.							
SECTION	SECTION 11. TOXICOLOGICAL INFORMATION									
Inform expos	nation on likely routes of sure	f:	Skin contact Ingestion Eye contact							
	e toxicity lassified based on availa	able	information.							
<u>Com</u>	oonents:									
Petro	latum:									
Acute	e oral toxicity	:	LD50 (Rat): > 5.000 mg/kg Method: OECD Test Guideline 401 Remarks: Based on data from similar materials							
Acute	e dermal toxicity	:	LD50 (Rat): > 2.000 mg/kg Method: OECD Test Guideline 402 Assessment: The substance or mixture has no acute dermal toxicity Remarks: Based on data from similar materials							
Prop	ylene glycol monostea	rate	2:							
	oral toxicity		LD50 (Mouse): > 5.000 mg/kg							
	nethasone:									
Acute	oral toxicity	:	LD50 (Rat): > 5.000 mg/kg							
			LD50 (Mouse): > 4.500 mg/kg							
Acute	inhalation toxicity	:	LC50 (Rat): 0,4 mg/l Exposure time: 4 h							
-	corrosion/irritation lassified based on availa	able	information.							
Com	ponents:									
Petro	latum:									
Speci		:	Rabbit							
Metho Resu		:	OECD Test Guideline 404 No skin irritation							
Rema		:	Based on data from similar materials							
	ylene glycol monostea	rate								
Resu	IL	:	No skin irritation							
Betar Speci	nethasone: les	:	Rabbit							



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Resu	It	: Mild skin irritat	ion					
Not c	ous eye damage/eye i lassified based on ava ponents:							
Petro Spec Resu Metho Rema	lt od	: Rabbit : No eye irritatio : OECD Test G : Based on data						
Beta Spec Resu		: Rabbit : No eye irritatio	n					
Skin	Respiratory or skin sensitization Skin sensitization Not classified based on available information.							
Not c	iratory sensitization lassified based on ava ponents:	ilable information.						
Test	es of exposure ies	: Buehler Test : Skin contact : Guinea pig : negative						
Rema	arks	-	from similar materials					
		: Dermal : Guinea pig : Weak sensitiz	ər					
Not c	n cell mutagenicity lassified based on ava	ilable information.						
11	ponents: platum:							
	toxicity in vitro	Result: negativ	romosome aberration test in vitro /e ed on data from similar materials					
Geno	toxicity in vivo	cytogenetic as Species: Mous						
		0 / 11						



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			Result: negative	Test Guideline 474 d on data from similar materials
H Beta	methasone:			
Geno	toxicity in vitro	:	Test Type: Bact Result: negative	erial reverse mutation assay (AMES)
			Test Type: In vit Result: negative	ro mammalian cell gene mutation test
			Test Type: Chro Result: positive	mosome aberration test in vitro
Genc	otoxicity in vivo	:	Test Type: Mam cytogenetic assa Species: Mouse Application Rou Result: equivoca	te: Oral
	n cell mutagenicity - ssment	:	Weight of evider cell mutagen.	nce does not support classification as a germ
	lassified based on availa ponents:			
11	blatum:			
Petro Spec	blatum:	:	Rat	
Petro Spec Appli	blatum: ies cation Route	:	Ingestion	
Petro Spec Appli	platum: ies cation Route sure time			
Petro Spec Applie Expo Resu	olatum: ies cation Route sure time It oductive toxicity		Ingestion 2 Years	
Petro Spec Appli Expo Resu Repr May o	olatum: ies cation Route sure time It oductive toxicity damage the unborn child	: : :	Ingestion 2 Years	
Petro Spec Appli Expo Resu Repr May o	olatum: ies cation Route sure time It oductive toxicity	: : : 1.	Ingestion 2 Years	
Petro Appli Expo Resu Repr May o <u>Com</u>	olatum: ies cation Route sure time It oductive toxicity damage the unborn chilo ponents:	: : : 1.	Ingestion 2 Years negative	
Petro Appli Expo Resu Repr May o <u>Com</u>	blatum: ies cation Route sure time It oductive toxicity damage the unborn chilo ponents:	: : :	Ingestion 2 Years negative Test Type: Repr test Species: Rat Application Rou Result: negative	



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Betan	nethasone:			
Effects on fetal development		:		e: Intramuscular oxicity: LOAEL: 0,05 mg/kg body weight ty., Malformations were observed.
				e: Subcutaneous oxicity: LOAEL: 0,42 mg/kg body weight tions were observed.
				e: Intramuscular oxicity: LOAEL: 1 mg/kg body weight tions were observed.
Repro sessm	oductive toxicity - As- nent	:	Clear evidence o animal experimer	f adverse effects on development, based on nts.
STOT	-single exposure			
Not cl	assified based on availa	able	information.	
STOT	-repeated exposure			
	es damage to organs (F gland) through prolonge			system, muscle, thymus gland, Blood, Ad- e.
<u>Comp</u>	oonents:			
Betan	nethasone:			
Targe	t Organs	:	Pituitary gland, Ir Adrenal gland	nmune system, muscle, thymus gland, Blood,
Asses	ssment	:	5	to organs through prolonged or repeated

Repeated dose toxicity

Components:		
Petrolatum: Species NOAEL Application Route Exposure time	:	Rat 5.000 mg/kg Ingestion 2 y
Betamethasone: Species LOAEL Application Route Exposure time Target Organs	:	Rabbit 0.05 % Skin contact 10 - 30 d Pituitary gland, Immune system, muscle
Species LOAEL Application Route	:	Rat 0.05 % Skin contact



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	sure time t Organs	: 8 Weeks : thymus gland	
Expos		: Mouse : 0.1 % : Skin contact : 8 Weeks : thymus gland	
Expos		: Dog : 0,05 mg/kg : Oral : 28 d : Blood, thymus g	gland, Adrenal gland
Not cl	ation toxicity assified based on ava rience with human e		
<u>Comp</u>	<u>oonents:</u> nethasone:		

Detamethasone.	
Inhalation Skin contact	Target Organs: Adrenal gland Symptoms: Redness, pruritis, Irritation

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

I	Petrolatum:	
	Toxicity to fish :	LL50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 203 Remarks: Based on data from similar materials
	Toxicity to daphnia and other : aquatic invertebrates	EC50 (Daphnia magna (Water flea)): > 10.000 mg/l Exposure time: 48 h Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials
	Toxicity to algae/aquatic : plants	NOEL (Pseudokirchneriella subcapitata (green algae)): >= 100 mg/l Exposure time: 72 h Test substance: Water Accommodated Fraction Method: OECD Test Guideline 201 Remarks: Based on data from similar materials
	Toxicity to daphnia and other : aquatic invertebrates (Chron- ic toxicity)	NOEC (Daphnia magna (Water flea)): 10 mg/l Exposure time: 21 d Test substance: Water Accommodated Fraction Remarks: Based on data from similar materials



ersion D	Revision Date: 23.03.2020		OS Number: 88572-00007	Date of last issue: 13.09.2019 Date of first issue: 18.05.2017
IJ				
Betar	nethasone:			
	ity to daphnia and other ic invertebrates	:	EC50 (Americam Exposure time: 9	
Toxici plants	ity to algae/aquatic	:	mg/I Exposure time: 7 Method: OECD T	chneriella subcapitata (green algae)): > 34 2 h cest Guideline 201 icity at the limit of solubility.
			mg/I Exposure time: 7 Method: OECD T	rchneriella subcapitata (green algae)): 34 2 h rest Guideline 201 icity at the limit of solubility.
Toxici icity)	ity to fish (Chronic tox-	:	Exposure time: 3	les promelas (fathead minnow)): 0,052 mg/ 2 d rest Guideline 210
			Exposure time: 2	atipes (Japanese medaka)): 0,07 μg/l 19 d est Guideline 229
	ity to daphnia and other ic invertebrates (Chron- city)	:	Exposure time: 2	magna (Water flea)): 8 mg/l 1 d est Guideline 211
M-Fac toxicit	ctor (Chronic aquatic y)	:	1.000	
Persi	stence and degradabili	ity		
<u>Comp</u>	oonents:			
Petro	latum:			
LL.	gradability	:		31 %
Bioac	cumulative potential			
Comp	oonents:			
Partiti	nethasone: on coefficient: n- ol/water	:	log Pow: 2,11	
Mobil	l ity in soil Ita available			



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	e r adverse effects ata available		
SECTION	13. DISPOSAL CONSI	DERATIONS	
Disp	osal methods		
Wast	te from residues aminated packaging	: Empty conta handling site	n accordance with local regulations. iners should be taken to an approved waste for recycling or disposal. ise specified: Dispose of as unused product.
SECTION	I 14. TRANSPORT INFO	RMATION	
Intor	national Poquiations		
	national Regulations		
	umber er shipping name	: UN 3077 : ENVIRONM N.O.S. (betametha:	ENTALLY HAZARDOUS SUBSTANCE, SOLID,
Class Pack Labe	ing group	: 9 : III : 9	
UN/II	-DGR D No. er shipping name		ally hazardous substance, solid, n.o.s.
Labe Pack aircra Pack ger a	ing group Is ing instruction (cargo	(Betametha : 9 : III : Miscellaneou : 956 : 956 : yes	
UN n	G-Code number er shipping name	: UN 3077 : ENVIRONM N.O.S. (Betamethas	ENTALLY HAZARDOUS SUBSTANCE, SOLID,
Pack Labe EmS	sidiary risk ing group	: 9 : ENVIRONM : III : 9 (ENVIRON : F-A, S-F : yes	

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data



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Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legis mixture	lation specific for the substance or
Argentina. Carcinogenic Substances and Agents	: Not applicable

Control of precursors and essential chemicals for the : Not applicable preparation of drugs.

International Regulations

Registry.

The ingredients of this product are reported in the following inventories:				
AICS	:	not determined		
DSL	:	not determined		

IECSC : no	t determined
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SECTION 16. OTHER INFORMATION

Further information

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

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 other abbreviations

ACGIH AR OEL		USA. ACGIH Threshold Limit Values (TLV) Argentina. Occupational Exposure Limits
ACGIH / TWA	:	8-hour, time-weighted average
AR OEL / CMP	:	TLV (Threshold Limit Value)
AR OEL / CMP - CPT	:	STEL (Short Term Limit Value)

AICS - Australian Inventory of Chemical Substances; 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 Chemi-



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cal 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; 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 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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