

according to the OSHA Hazard Communication Standard

Ertapenem Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 03/20/2023
8.1	09/26/2023	20991-00021	Date of first issue: 11/03/2014

SECTION 1. IDENTIFICATION

Product name	:	Ertapenem Formulation					
Manufacturer or supplier's details							
Company name of supplier							
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@merck.com					
Recommended use of the chemical and restrictions on use							
Recommended use	:	Pharmaceutical					
Restrictions on use	:	Not applicable					

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Combustible dust						
Respiratory sensitization	:	Category 1				
GHS label elements Hazard pictograms	:					
Signal Word	:	Danger				
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H334 May cause allergy or asthma symptoms or breathing diffi- culties if inhaled.				
Precautionary Statements	:	Prevention: P261 Avoid breathing dust. P285 In case of inadequate ventilation wear respiratory protec- tion.				
		Response: P304 + P341 IF INHALED: If breathing is difficult, remove per- son to fresh air and keep comfortable for breathing. P342 + P311 If experiencing respiratory symptoms: Call a doc- tor.				
		Disposal: P501 Dispose of contents and container to an approved waste				



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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.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)				
Ertapenem	153773-82-1	>= 70 - < 90				
Actual concentration is withheld as a trade appret						

Actual concentration is withheld as a trade secret

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. 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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
In case of skin contact	:	Wash with water and soap. Get medical attention if symptoms occur.
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 if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May cause allergy or asthma symptoms or breathing difficul- ties if inhaled. Excessive exposure may aggravate preexisting asthma and other respiratory disorders (e.g. emphysema, bronchitis, reac- tive airways dysfunction syndrome). 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



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Ur	Unsuitable extinguishing media Specific hazards during fire fighting		Alcohol-resistant Carbon dioxide (C Dry chemical None known.		
me Sp			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.		
	Hazardous combustion prod- ucts		Exposure to comb Carbon oxides Metal oxides	oustion products may be a hazard to health.	
	Specific extinguishing meth- ods		Use extinguishing measures that are appropriate to local ci 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.		
	ecial protective equipmen fire-fighters	t :		e, wear self-contained breathing apparatus. tective equipment.	

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
Environmental 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.
Methods and materials for containment and cleaning up	:	Surround spill with absorbents and place a damp covering over the area to minimize entry of the material into the air. Add excess liquid to allow the material to enter into solution. Soak up with inert absorbent material. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Clean up remaining materials from spill with suitable absorbent. 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





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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.			
		otal ventilation on safe handling	::	Use only with adequate ventilation. Avoid breathing dust. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safe practice, based on the results of the workplace exposure assessment Keep container tightly closed. Already sensitized individuals, and those susceptible to asthma, allergies, chronic or recurrent respiratory diseases should consult their physician regarding working with respiratory irritants or sensitizers. 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. Take care to prevent spills, waste and minimize release to environment.		
C	Conditio	ons for safe storage	:	Keep tightly close		
Μ	Store in accordance with the particular national regulationMaterials to avoid: Do not store with the following product types: Strong oxidizing agents					

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

inert or nuisance dust	50 Million particles per cubic foot Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	15 mg/m³ Value type (Form of exposure): TWA (total dust) Basis: OSHA Z-3
	5 mg/m³ Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
	15 Million particles per cubic foot Value type (Form of exposure): TWA (respirable fraction) Basis: OSHA Z-3
Dust, nuisance dust and par- ticulates	10 mg/m³ Value type (Form of exposure): PEL (Total dust) Basis: CAL PEL



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			5 mg/m³ Value type (Fo Basis: CAL PE		: PEL (respirable dus	t fraction)		
Comp	onents		CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis		
Ertape	enem		153773-82-1	TWA	0.15 mg/m3 (OEB 2)	Internal		
			Further informa	ation: RSEN				
Engineering measures :		:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Apply measures to prevent dust explosions. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment).					
Perso	onal protective equip	ment						
	spiratory protection : General and local exhau maintain vapor exposure concentrations are abov unknown, appropriate re Follow OSHA respirator use NIOSH/MSHA appro by air purifying respirato hazardous chemical is li supplied respirator if the release, exposure levels circumstance where air adequate protection.			r exposures belows are above reco ropriate respirator respirator regula SHA approved r g respirators aga emical is limited rator if there is a sure levels are u where air purifyi	ow recommended lim ommended limits or a ory protection should ations (29 CFR 1910, respirators. Protection ainst exposure to any . Use a positive press any potential for unco unknown, or any othe	hits. Where are be worn. .134) and n provided sure air ntrolled r		
Hand	protection							
Ma	aterial	:	Chemical-resis	stant gloves				
Re	marks	:	: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.					
Eye p	rotection	:	: Wear the following personal protective equipment:					
	and body protection ne measures	:	 Safety goggles Skin should be washed after contact. 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 contaminated clothing before re-use. 					

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	powder	
	Color		:	white	
	Odor		:	No data available)
	Odor T	hreshold	:	No data available)
	рН		:	No data available)
	Melting	point/freezing point	:	No data available	
	Initial b range	oiling point and boiling	:	No data available	
	Flash p	oint	:	No data available	
	Evapor	ation rate	:	No data available	9
	Flamma	ability (solid, gas)	:	May form explosi handling or other	ve dust-air mixture during processing, means.
	Flamma	ability (liquids)	:	No data available	
		explosion limit / Upper bility limit	:	No data available	
		explosion limit / Lower bility limit	:	No data available	
	Vapor p	pressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available	
	Density	,	:	No data available	
	Solubili Wat	ty(ies) er solubility	:	No data available	9
	Partition octanol	n coefficient: n- /water	:	No data available	
		ition temperature	:	No data available	
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, dynamic	:	No data available	9
	Visc	osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	



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Molec	zing properties cular weight le size	The substanceNo data availaNo data availa		

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

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Skin contact Ingestion Eye contact

Acute toxicity

Not classified based on available information.

Components:

Ertapenem:

Acute oral toxicity	:	LD50 (Mouse): > 500 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Mouse): > 700 mg/kg Application Route: Intravenous
		LD50 (Rat): > 700 mg/kg Application Route: Intravenous

Skin corrosion/irritation

Not classified based on available information.

Components:

Ertapenem:

Species	:	Rabbit
Result	:	No skin irritation



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Serious eye damage/eye irritation

Not classified based on available information.

Components:

Ertapenem:

Species	:	Rabbit
Result	:	Mild eye irritation

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Components:

Ertapenem:

Routes of exposure	:	inhalation (dust/mist/fume)
Assessment	:	Probability of respiratory sensitization in humans based on
		animal testing
Result	:	positive

Germ cell mutagenicity

Not classified based on available information.

Components:

Ertapenem:

Genotoxicity in vitro	:	Test Type: Bacterial reverse mutation assay (AMES) Result: negative
		Test Type: Alkaline elution assay Test system: rat hepatocytes Result: negative
		Test Type: Chromosomal aberration Test system: Chinese hamster ovary cells Result: negative
		Test Type: In vitro mammalian cell gene mutation test Test system: human lymphoblastoid cells Result: negative
Genotoxicity in vivo	:	Test Type: Micronucleus test Species: Mouse Result: negative

Carcinogenicity

Not classified based on available information. IARC No ingredient of this product present at levels greater than or equal to 0.1% is





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ersion 1	Revisi 09/26/	on Date: 2023		991-00021	Date of last issue: 03/20/2023 Date of first issue: 11/03/2014			
		identified as p	orob	able, possible or co	onfirmed human carcinogen by IARC.			
OSH/				of this product present at levels greater than or equal to 0.1% is fregulated carcinogens.				
					t at levels greater than or equal to 0.1% is carcinogen by NTP.			
-	oductive lassified b	toxicity based on availa	able	information.				
Comp	oonents:							
	enem: ts on ferti	lity	:	Species: Rat Application Route Fertility: NOAEL:	700 mg/kg body weight			
				Test Type: Fertilit Species: Mouse Fertility: NOAEL: Result: No effects	700			
Effect	ts on feta	l development	:	Developmental To	opment :: Intravenous injection oxicity: NOAEL: 700 mg/kg body weight s on early embryonic development.			
				Developmental To Symptoms: Redu	: Intravenous injection oxicity: NOAEL: 350 mg/kg body weight			
	-	exposure based on availa	ble	information				
		based on availa e d exposure	aDIE	mormation.				
0.01	repeate	a chposuic						

Not classified based on available information.

Repeated dose toxicity

Components:

Ertapenem:

Species	: Rat
LOAEL	: 2 mg/kg
Application Route	: Intravenous





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Та	Exposure time Target Organs Remarks			2 Weeks Blood The mechanism o humans.	or mode of action may not be relevant in	
LO A E Ta	Species LOAEL Application Route Exposure time Target Organs Remarks			 Rat 60 mg/kg Intravenous 6 Months Blood The mechanism or mode of action may not be relevant humans. 		
N L A E Ta	Species NOAEL LOAEL Application Route Exposure time Target Organs Remarks			Monkey 360 mg/kg 500 mg/kg Intravenous 27 Weeks Liver, Kidney The mechanism of humans.	or mode of action may not be relevant in	
	-	t ion toxicity ssified based on availa	able	information.		
E	Experience with human exp			ire		

Components:

Ertapenem:

Inhalation	:	Remarks: May cause sensitization by inhalation.
Ingestion	:	Symptoms: Diarrhea, Nausea, Headache, vaginitis

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ertapenem:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 500 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Pseudokirchneriella subcapitata (green algae)): > 51 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
		NOEC (Pseudokirchneriella subcapitata (green algae)): 51 mg/l Exposure time: 72 h



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			Method: OECD	Test Guideline 201	
			Exposure time: 7	a flos-aquae): 0.23 mg/l 72 h Test Guideline 201	
			Exposure time: 7	na flos-aquae): 0.13 mg/l 72 h Test Guideline 201	
Toxici icity)	ty to fish (Chronic tox-	:	Exposure time: 3	ales promelas (fathead minnow)): 2.5 mg 32 d Test Guideline 210	
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)		:	Exposure time: 2	i magna (Water flea)): 82 mg/l 21 d Test Guideline 211	
Toxicity to microorganisms		:	EC10: 3.9 mg/l Exposure time: 3 h Test Type: Respiration inhibition		
Persi	stence and degradabili	ty			
<u>Comp</u>	oonents:				
-	enem: gradability	:	Biodegradation: Exposure time: 2		
Stability in water		:	Degradation hal	f life (DT50): 15.3 d	
Bioac	cumulative potential				
Comp	oonents:				
Partiti	enem: on coefficient: n- ol/water	:	log Pow: -2.22		
	ity in soil ta available				
	adverse effects ta available				

Disposal methods		
Waste from residues	:	Dispose of in accordance with local regulations.





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Conta	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 produc			
ECTION	14. TRANSPORT INFO	ORM	ATION			
Interi	national Regulations					
UNR	TDG					
	umber	:	UN 3077			
Prope	er shipping name	:	ENVIRONMEN N.O.S. (Ertapenem)	TALLY HAZARDOUS SUBSTANCE, SOLID		
Class	;	:	9			
	ng group	:	111			
Label		:	9			
Envir	onmentally hazardous	:	yes			
	-DGR					
UN/IE		:	UN 3077			
-	er shipping name	:	(Ertapenem)	/ hazardous substance, solid, n.o.s.		
Class		:	9			
	ng group	:				
Label	ng instruction (cargo	÷	Miscellaneous 956			
aircra		•	900			
	ng instruction (passen-	:	956			
	ircraft)					
Envir	onmentally hazardous	:	yes			
IMDO	G-Code					
	umber	:	UN 3077			
Prope	er shipping name	:		TALLY HAZARDOUS SUBSTANCE, SOLID		
			N.O.S.			
			(Ertapenem)			
Class	ng group	÷	9 III			
Label		:	9			
	Code	÷	F-А, S-F			
	e pollutant	:	yes			
	sport in bulk according	-		RPOL 73/78 and the IBC Code		
	estic regulation	•				
49 CI	-R					
	D/NA number	:	UN 3077			
	er shipping name	÷		/ hazardous substance, solid, n.o.s.		
1		-	(Ertapenem)	· · · · · · · · · · · · · · · · · · ·		
			/			



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F	Remarł	KS	:	liters. Shipment by grou may be shipped p	ly to containers over 119 gallons or 450 nd under DOT is non-regulated; however it per the applicable hazard classification to dal transport involving ICAO (IATA) or IMO	
9	Specia	I precautions for use	r			
ł	based u Sheet.	upon the properties of	the catio	unpackaged mater	r informational purposes only, and solely ial as it is described within this Safety Data ode of transportation, package sizes, and	
SEC	TION 1	5. REGULATORY INF	OR	MATION		
	This ma SARA : This ma SARA : This ma	302 Extremely Hazard aterial does not contair 311/312 Hazards	n an dou n an dou	s Substances Rep y components with s Substances Thr y components with Combustible dust Respiratory or ski This material doe known CAS numb	oortable Quantity a section 304 EHS RQ. eshold Planning Quantity a section 302 EHS TPQ.	
l	US Sta	te Regulations				
I	Pennsy	ylvania Right To Knov Ertapenem Sodium hydrogenca		onate	153773-82-1 144-55-8	
	-	gredients of this prod	luct	-	ne following inventories:	
/	AICS		:	not determined		
[DSL		:	not determined		
I	IECSC		:	not determined		

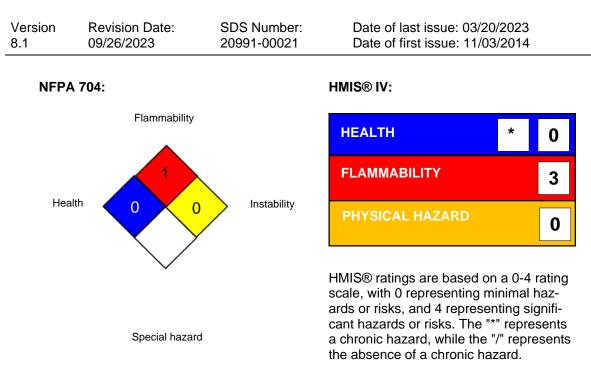
SECTION 16. OTHER INFORMATION

Further information



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Full text of other abbreviations

CAL PEL	:	California permissible exposure limits for chemical contami- nants (Title 8, Article 107)
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
CAL PEL / PEL	:	Permissible exposure limit
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada): ECx - Concentration associated with x% response: EHS - Extremely Hazardous Substance; 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act;



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REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; 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

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/
Revision Date	:	09/26/2023

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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