

according to the OSHA Hazard Communication Standard

Benzylpenicillin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 07/06/2024
4.1	09/28/2024	3928958-00023	Date of first issue: 01/02/2019

SECTION 1. IDENTIFICATION

Product name Other means of identification	 Benzylpenicillin Formulation Duplocillin LA (A004183) Depocillin (A004256) DEPOCILLIN PROCAINE PENICILLIN 300MG/ML INJECTION (37258) DUPLOCILLIN PROCAINE AND BENZATHINE PENICILLIN INJECTION (37266) 			
Manufacturer or supplier's details				

Company name of supplier	:	Merck & Co., Inc
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	:	Veterinary product
Restrictions on use	:	Not applicable

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in acco 1910.1200)	rdan	ce with the OSHA Hazard Communication Standard (29 CFR
Respiratory sensitization	:	Category 1

GHS	label	elements
		0.0

Skin sensitization



: Category 1

Signal Word: DangerHazard Statements: H317 May cause an allergic skin reaction.
H334 May cause allergy or asthma symptoms or breathing diffi-

culties if inhaled.

Precautionary Statements	:	Prevention:
		P261 Avoid breathing mist or vapors.P272 Contaminated work clothing must not be allowed out of the workplace.P280 Wear protective gloves.P285 In case of inadequate ventilation wear respiratory protection.





Benzylpenicillin Formulation

Version 4.1	Revision Date: 09/28/2024	SDS Number: 3928958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019
		P304 + P341 IF son to fresh air P333 + P313 If tion. P342 + P311 If tor.	 ON SKIN: Wash with plenty of soap and water. INHALED: If breathing is difficult, remove per- and keep comfortable for breathing. skin irritation or rash occurs: Get medical atten- experiencing respiratory symptoms: Call a doc- ntaminated clothing before reuse.
		Disposal: P501 Dispose o disposal plant.	of contents and container to an approved waste
None	r hazards hown.	FORMATION ON ING	
	tance / Mixture	: Mixture	

Components

oomponents		
Chemical name	CAS-No.	Concentration (% w/w)
Benzylpenicillin	61-33-6	>= 27.55 - <= 30

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. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. 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 if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	



Benzylpenicillin Formulation

Vers 4.1	sion	Revision Date: 09/28/2024		9S Number: 28958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019	
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).			
_	Notes t	o physician	:	Treat symptomatically and supportively.		
SEC	CTION 5	. FIRE-FIGHTING MEA	ASU	IRES		
Suitable extinguishing media		:	Water spray Alcohol-resistant f Carbon dioxide (C Dry chemical			
	Unsuita media	able extinguishing	:	None known.		
	Specific fighting	c hazards during fire	:	Exposure to comb	oustion products may be a hazard to health.	
	Hazard ucts	lous combustion prod-	:	Carbon oxides Metal oxides		
	Specific ods	c extinguishing meth-	:	cumstances and t Use water spray to	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do	
		l protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective 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. Prevent spreading over a wide area (e.g., by containment or oil barriers). 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	Soak up with inert absorbent material. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent.



according to the OSHA Hazard Communication Standard

Benzylpenicillin Formulation

Version 4.1	Revision Date: 09/28/2024	SDS Number: 3928958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019		
		disposal of thi employed in t determine wh Sections 13 a	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	I 7. HANDLING AND ST	ORAGE			
Loca	nical measures I/Total ventilation ce on safe handling	CONTROLS/I : Use only with : Do not get on Do not breath Do not swallo Avoid contact Handle in acc practice, base assessment Keep containe Already sensi to asthma, all should consul respiratory irri	with eyes. ordance with good industrial hygiene and safety ed on the results of the workplace exposure er tightly closed. tized individuals, and those susceptible ergies, chronic or recurrent respiratory disease, t their physician regarding working with tants or sensitizers.		
	ditions for safe storage erials to avoid	environment. : Keep in prope Keep tightly c Store in accor	dance with the particular national regulations. vith the following product types:		

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
Benzylpenicillin	61-33-6	TWA	600 µg/m3 (OEB 2)	Internal
	Further informa	ation: RSEN, DS	EN	
		Wipe limit	100 µg/100 cm2	Internal

Engineering measures	: Use appropriate engineering controls and manufacturing technologies to control airborne concentrations (e.g., drip- less quick connections). All engineering controls should be implemented by facility design and operated in accordance with GMP principles to
	protect products, workers, and the environment. Laboratory operations do not require special containment.

according to the OSHA Hazard Communication Standard



Benzylpenicillin Formulation

workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the	/ersion 1.1	Revision Date: 09/28/2024	SDS Number: 3928958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019			
 maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection. Hand protection Hard protection Eye 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. Skin and body protection Work uniform or laboratory coat. 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. Contaminated work clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate dogwning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the 	Perse	onal protective equip	ment				
Material:Chemical-resistant glovesEye 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.Skin and body protection Hygiene measures:Work uniform or laboratory coat. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the	Resp	iratory protection	maintain vap concentration unknown, ap Follow OSH/ use NIOSH/I by air purifyin hazardous cl supplied resp release, exp circumstance	or exposures below recommended limits. Where his are above recommended limits or are propriate respiratory protection should be worn. A respirator regulations (29 CFR 1910.134) and MSHA approved respirators. Protection provided ing respirators against exposure to any memical is limited. Use a positive pressure air pirator if there is any potential for uncontrolled posure levels are unknown, or any other e where air purifying respirators may not provide			
Skin and body protection Hygiene measuresIf 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 Hygiene measures: Work uniform or laboratory coat. 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the			: Chemical-res				
 Hygiene measures 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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures, industrial hygiene monitoring, medical surveillance and the 	Eye p	protection	If the work en mists or aero Wear a faces potential for	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			
			: If exposure to eye flushing working plac When using Contaminate workplace. Wash contar The effective engineering appropriate o industrial hyg	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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use. The effective operation of a facility should include review of engineering controls, proper personal protective equipment, appropriate degowning and decontamination procedures,			
	Appe	arance	: suspension				

Appearance	:	suspension
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



according to the OSHA Hazard Communication Standard

Benzylpenicillin Formulation

Vers 4.1	sion	Revision Date: 09/28/2024		S Number: 8958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019
	Evapor	ation rate	:	No data available	
	Flamma	ability (solid, gas)	:	Not applicable	
	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	:	soluble	
		n coefficient: n-	:	Not applicable	
	octanol, Autoign	/water ition temperature	:	No data available	1
	Decom	position temperature	:	No data available	
	Viscosi Visc	ty osity, kinematic	:	No data available	
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Molecu	lar weight	:	No data available	
	Particle Particle	characteristics size	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac-	:	Can react with strong oxidizing agents.
tions		
Conditions to avoid	:	None known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition	:	No hazardous decomposition products are known.
products		



according to the OSHA Hazard Communication Standard

Benzylpenicillin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 07/06/2024
4.1	09/28/2024	3928958-00023	Date of first issue: 01/02/2019

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:

Benzylpenicillin:

Acute oral toxicity	:	LD50 (Rat): 8,000 mg/kg
		LD50 (Mouse): > 5,000 mg/kg
Acute toxicity (other routes of administration)	:	LD50 (Mouse): 3,500 mg/kg Application Route: Intraperitoneal
		LD50 (Mouse): 329 mg/kg Application Route: Intravenous

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

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

Components:

Benzylpenicillin:

Test Type Routes of exposure Species Result	 Local lymph node assay (LLNA) Dermal Mouse Weak sensitizer
Test Type Routes of exposure Species Result Remarks	 Maximization Test Dermal Guinea pig positive Based on data from similar materials
Result Remarks	Strong sensitizerBased on human experience.

according to the OSHA Hazard Communication Standard



Benzylpenicillin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 07/06/2024
4.1	09/28/2024	3928958-00023	Date of first issue: 01/02/2019

Germ cell mutagenicity

Not classified based on available information.

Components:

Benzylpenicillin:

Germ cell mutagenicity -:Weight of evidence does not support classification as a germAssessmentcell mutagen.

Carcinogenicity

Not classified based on available information.

IARC No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

Benzylpenicillin: Effects on fertility Test Type: Fertility Species: Mouse Result: No effects on fertility. Test Type: Fertility Species: Rat Result: No effects on fertility. Test Type: Fertility Species: Rabbit Result: No effects on fertility. Test Type: Development Effects on fetal development : Species: Mouse Result: No effects on fetal development. Test Type: Development Species: Rat Result: No effects on fetal development. Test Type: Development Species: Rabbit Result: No effects on fetal development.





Benzylpenicillin Formulation

Version 4.1	Revision Date: 09/28/2024	-	0S Number: 28958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019
STO	Γ-single exposure			
Not c	lassified based on availa	ble	information.	
	F-repeated exposure lassified based on availa	ble	information.	
-	ration toxicity lassified based on availa	ble	information.	
Expe	rience with human exp	osı	ıre	
Com	ponents:			
Benz	ylpenicillin:			
Inhala	ation	:	Symptoms: Allerg chospasm, skin ra	ic reactions, Abdominal pain, bron- ash
SECTION	12. ECOLOGICAL INFO	ORN	IATION	
Ecote	oxicity			
Com	ponents:			
Benz	ylpenicillin:			
Toxic	ity to fish	:	LC50 (Oncorhync Exposure time: 96 Method: OECD To	
	ity to daphnia and other tic invertebrates	:	EC50 (Daphnia m Exposure time: 48 Method: OECD Te	
Toxic plants	ity to algae/aquatic s	:	EC50 (Raphidoce 100 mg/l Exposure time: 72 Method: OECD To	
			NOEC (Raphidoc mg/l Exposure time: 72 Method: OECD To	
			EC50 (blue-green Exposure time: 72 Method: OECD Te	2 hrs
			NOEC (blue-gree Exposure time: 72 Method: OECD To	
Toxic	ity to microorganisms	:	EC50: > 500 mg/l Exposure time: 3 Test Type: Respir Method: OECD To	h ation inhibition



according to the OSHA Hazard Communication Standard

Benzylpenicillin Formulation

Version 4.1	Revision Date: 09/28/2024	SDS Number: 3928958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019
		NOEC: 5 mg/l Exposure time: Test Type: Res Method: OECD	3 h piration inhibition Test Guideline 209
Persi	istence and degrada	bility	
Com	ponents:		
	ylpenicillin: egradability	: Result: Readily Biodegradation Exposure time: Method: OECD	: 70.10 %
	ccumulative potentia ata available	I	
	i lity in soil ata available		
	r adverse effects ata available		
SECTION	13. DISPOSAL CON	SIDERATIONS	
•	osal methods e from residues	· Dispose of in a	cordance with local regulations.

Waste from residues	Dispose of in accorda	nce with local regulations.
	Do not dispose of was	
Contaminated packaging	handling site for recyc	uld be taken to an approved waste ling or disposal. ied: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3082
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Benzylpenicillin)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3082
Proper shipping name	:	Environmentally hazardous substance, liquid, n.o.s. (Benzylpenicillin)
Class	:	9
Packing group	:	III



according to the OSHA Hazard Communication Standard

Benzylpenicillin Formulation

Vers 4.1	sion	Revision Date: 09/28/2024		DS Number: 28958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019
	Labels Packin aircraft	g instruction (cargo	:	Miscellaneous 964	
	ger aire		:	964	
	Enviro	nmentally hazardous	:	yes	
	IMDG-	Code			
	UN nu	mber	:	UN 3082	
	Proper	shipping name	:	ENVIRONMENTA N.O.S. (Benzylpenicillin)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
	Class		:	9	
	Packing group Labels EmS Code Marine pollutant		:		
			:	9	
			÷	F-A, S-F	
		•	·	yes	
	Transport in bulk according		j to	Annex II of MARP	OL 73/78 and the IBC Code
	Not ap	plicable for product as	sup	plied.	
	Domes	stic regulation			
	49 CFF	र			
	UN/ID/	NA number	:	UN 3082	
	Proper	shipping name	:	Environmentally h (Benzylpenicillin)	nazardous substance, liquid, n.o.s.
	Class		:	9	
		g group	:		
	Labels		:	CLASS 9	

Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes(Benzylpenicillin)
Remarks	:	Above applies only to containers over 119 gallons or 450
		liters.
		Shipment by ground under DOT is non-regulated; however it
		may be shipped per the applicable hazard classification to
		facilitate multi-modal transport involving ICAO (IATA) or IMO.

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

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

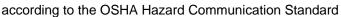
SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Respiratory or skin sensitization

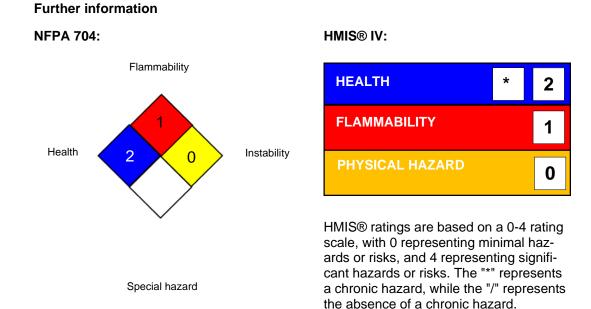




Benzylpenicillin Formulation

Version 4.1	Revision Date: 09/28/2024	SDS Number: 3928958-00023	Date of last issue: 07/06/2024 Date of first issue: 01/02/2019	
SARA	. 313	known CAS n	does not contain any chemical components with umbers that exceed the threshold (De Minimis) Is established by SARA Title III, Section 313.	
US Sta	ate Regulations			
Penns	sylvania Right To Kno Water	w	7732-18-5	
	Benzylpenicillin		61-33-6	
The ingredients of this product are reported in the following inventories:				
AICS		: not determine	d	
DSL		: not determine	d	
IECSC	>	: not determine	d	

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

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;



according to the OSHA Hazard Communication Standard

Benzylpenicillin Formulation

Version	Revision Date:	SDS Number:	Date of last issue: 07/06/2024
4.1	09/28/2024	3928958-00023	Date of first issue: 01/02/2019

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; 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/
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Revision Date : 09/28/2024

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.

US / Z8