according to the OSHA Hazard Communication Standard



Interferon Alfa-2b Liquid Formulation

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SECTION 1. IDENTIFICATION

Product name	:	Interferon Alfa-2b Liquid Formulation					
Manufacturer or supplier's details							
Company name of supplier Address	:	Merck & Co., Inc 126 E. Lincoln Avenue Rahway, New Jersey U.S.A. 07065					
Telephone Emergency telephone E-mail address	:	908-740-4000 1-908-423-6000 EHSDATASTEWARD@merck.com					
Recommended use of the chemical and restrictions on use							
Recommended use Restrictions on use	:	Pharmaceutical Not applicable					

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)					
Reproductive toxicity	:	Category 1B			
Specific target organ toxicity - repeated exposure	:	Category 2 (Blood, Bone marrow)			
GHS label elements Hazard pictograms	:				
Signal Word	:	Danger			
Hazard Statements	:	H360FD May damage fertility. May damage the unborn child. H373 May cause damage to organs (Blood, Bone marrow) through prolonged or repeated exposure.			
Precautionary Statements	:	Prevention:			
		 P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe mist or vapors. P280 Wear protective gloves, protective clothing, eye protection and face protection. 			
		Response:			
		P308 + P313 IF exposed or concerned: Get medical attention.			
		Storage:			
		P405 Store locked up.			

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Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	:	Mixture
---------------------	---	---------

Components

Chemical name	CAS-No.	Concentration (% w/w)			
m-Cresol	108-39-4	>= 0.1 - < 1			
Interferon alfa-2b	98530-12-2	>= 0.001 - < 0.1			
Actual concentration is withheld as a trade secret					

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.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention.
In case of skin contact	:	In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact	:	
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	May damage fertility. May damage the unborn child. May cause damage to organs through prolonged or repeated exposure.
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 to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical
Unsuitable extinguishing	:	None known.



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	fighting	c hazards during fire lous combustion prod-	:	·	oustion products may be a hazard to health. nbustion products are known
	Specific extinguishing meth- ods		:	Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.	
	Special protective equipment for fire-fighters		•	Use personal prot	e, wear self-contained breathing apparatus. ective equipment.
SEC	SECTION 6. ACCIDENTAL RELEAS			EMEASURES	
	Personal precautions, protec- tive equipment and emer- gency procedures		:		ective equipment. ing advice (see section 7) and personal ent recommendations (see section 8).
	Environmental precautions		:	Prevent spreading oil barriers). Retain and dispos	akage or spillage if safe to do so. g over a wide area (e.g., by containment or se of contaminated wash water. should be advised if significant spillages

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. 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.
		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.
Advice on safe handling	:	Do not get on skin or clothing. Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes.



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		Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment Keep container tightly closed. Take care to prevent spills, waste and minimize release to the environment.					
Conditions for safe storage		 Keep in properly labeled containers. Store locked up. Keep tightly closed. 					
Materials to avoid		: Do not store w Strong oxidizin Self-reactive su					

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
m-Cresol	108-39-4	TWA	2.3 ppm 10 mg/m ³	NIOSH REL
		TWA	5 ppm 22 mg/m³	OSHA Z-1
		TWA (Inhal- able fraction and vapor)	20 mg/m ³	ACGIH
Interferon alfa-2b	98530-12-2	TWA	0.2 µg/m3 (OEB 5)	Internal
		Wipe limit	2 µg/100 cm ²	Internal

Ingredients with workplace control parameters

Engineering measures :	Use closed processing systems or containment technologies to control at source (e.g., glove boxes/isolators) and to prevent leakage of compounds into the workplace. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment. No open handling permitted. Totally enclosed processes and materials transport systems are required. Operations require the use of appropriate containment technology designed to prevent leakage of compounds into the workplace.
Personal protective equipment	
Respiratory protection :	No personal respiratory protective equipment normally required.

Hand protection



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Ma	aterial	: Chemical-re	esistant gloves
	emarks protection	: Wear safety If the work e mists or aer Wear a face	buble gloving. glasses with side shields or goggles. environment or activity involves dusty conditions, osols, wear the appropriate goggles. eshield or other full face protection if there is a direct contact to the face with dusts, mists, or
Skin a	and body protection	Additional b task being p disposable s	m or laboratory coat. ody garments should be used based upon the performed (e.g., sleevelets, apron, gauntlets, suits) to avoid exposed skin surfaces. riate degowning techniques to remove potentially ed clothing.
Hygie	ene measures	: If exposure eye flushing working plac When using Wash conta The effectiv engineering appropriate industrial hy	to chemical is likely during typical use, provide systems and safety showers close to the

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Color	:	colorless
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	6.5 - 8
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Flammability (liquids)	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available



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		explosion limit / Lower bility limit	:	No data available	
	Vapor p	oressure	:	No data available)
	Relative	e vapor density	:	No data available)
	Relative	e density	:	No data available)
	Density		:	No data available)
	Solubilit Wate	ty(ies) er solubility	:	No data available	
	Partitior octanol	n coefficient: n-	:	Not applicable	
		ition temperature	:	No data available)
	Decom	position temperature	:	No data available)
	Viscosit Visc	y osity, kinematic	:	No data available)
	Explosi	ve properties	:	Not explosive	
	Oxidizir	ng properties	:	The substance of	mixture is not classified as oxidizing.
	Molecul	ar weight	:	Not applicable	
	Particle	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		

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure Inhalation Skin contact Ingestion Eye contact

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Acute	e toxicity			
Not cl	assified based on ava	ailable	information.	
<u>Produ</u>	uct:			
Acute	oral toxicity	:	Acute toxicity of Method: Calcu	estimate: > 5,000 mg/kg lation method
Acute	dermal toxicity	:	Acute toxicity of Method: Calcu	estimate: > 5,000 mg/kg lation method
<u>Comp</u>	oonents:			
m-Cre	esol:			
Acute	oral toxicity	:	LD50 (Rat): 12 Remarks: Bas	21 mg/kg ed on data from similar materials
Acute	inhalation toxicity	:	Assessment: (Corrosive to the respiratory tract.
Acute	dermal toxicity	:	LD50 (Rabbit) Remarks: Bas	: 301 mg/kg ed on data from similar materials
Not cl	corrosion/irritation assified based on ava ponents:	ailable	information.	
m_Cra	sol			
m-Cre Speci			Rabbit	
m-Cre Speci Resul	es	:	Rabbit Corrosive afte	r 3 minutes to 1 hour of exposure
Speci Resul Interf	es t eron alfa-2b:	:	Corrosive after	r 3 minutes to 1 hour of exposure
Speci Resul	es t eron alfa-2b: es	::		r 3 minutes to 1 hour of exposure
Speci Resul Interf Speci Resul Serio	es t eron alfa-2b: es t us eye damage/eye		Corrosive after Rat Skin irritation	r 3 minutes to 1 hour of exposure
Speci Resul Interf Speci Resul Serio Not cl	es t eron alfa-2b: es t t us eye damage/eye assified based on ava		Corrosive after Rat Skin irritation	r 3 minutes to 1 hour of exposure
Speci Resul Interf Speci Resul Serio Not cl	es t eron alfa-2b: es t us eye damage/eye		Corrosive after Rat Skin irritation	r 3 minutes to 1 hour of exposure
Speci Resul Interf Speci Resul Serio Not cl <u>Comp</u> m-Cre	es t eron alfa-2b: es t us eye damage/eye assified based on ava <u>conents:</u> esol:		Corrosive after Rat Skin irritation on information.	r 3 minutes to 1 hour of exposure
Speci Resul Interf Speci Resul Serio Not cl <u>Comp</u> m-Cre Speci	es t eron alfa-2b: es t us eye damage/eye assified based on ava <u>ponents:</u> esol: es		Corrosive after Rat Skin irritation on information.	
Speci Resul Interf Speci Resul Serio Not cl <u>Comp</u> m-Cre	es t eron alfa-2b: es t us eye damage/eye assified based on ava <u>ponents:</u> esol: es		Corrosive after Rat Skin irritation on information.	r 3 minutes to 1 hour of exposure
Speci Resul Speci Resul Serio Not cl <u>Comp</u> m-Cre Speci Resul	es t eron alfa-2b: es t us eye damage/eye assified based on ava <u>ponents:</u> esol: es t eson alfa-2b:		Corrosive after Rat Skin irritation on information. Rabbit Irreversible eff	
Speci Resul Interf Speci Resul Serio Not cl <u>Comp</u> m-Cre Speci Resul	es t eron alfa-2b: es t us eye damage/eye assified based on ava <u>ponents:</u> esol: es t esol: es		Corrosive after Rat Skin irritation on information.	

Skin sensitization

Not classified based on available information.

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Not c Germ Not c	iratory sensitizatior lassified based on av n cell mutagenicity lassified based on av	ailable inforr		
	ponents:			
m-Cr Geno	esol: toxicity in vitro	Meth		omosome aberration test in vitro Test Guideline 473
		Meth		terial reverse mutation assay (AMES) Test Guideline 471 e
Geno	toxicity in vivo	cyto Spec Appl Meth	genetic test cies: Mouse lication Rou	ite: Ingestion Test Guideline 475
Interf	eron alfa-2b:			
Geno	toxicity in vitro		Type: Chroud Type: Chroud Chrod Chroud Chrod Chroud Chroud Chroud Chroud Chroud Chroud Chroud	omosome aberration test in vitro e
			Type: Bac ult: negative	terial reverse mutation assay (AMES) e
Geno	toxicity in vivo	Spe Res	cies: Mouse ult: negative	
Not c	inogenicity lassified based on av ponents:	ailable inforr	nation.	
m-Cr				
Speci Applie	ies cation Route sure time It	: Inge : 105 : equi	se, males stion weeks vocal ed on data t	from similar materials
	cation Route sure time It	: Inge : 106 : posi		s from similar materials





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Carci ment	nogenicity - Assess-	:	Weight of evid	dence does not support classification as a car-			
IARC	0		of this product present at levels greater than or equal to 0.1% is robable, possible or confirmed human carcinogen by IARC.				
OSH			nt of this product present at levels greater than or equal to 0.1% is to fregulated carcinogens.				
NTP				esent at levels greater than or equal to 0.1% is ted carcinogen by NTP.			
-	oductive toxicity damage fertility. May d	amag	e the unborn c	hild.			
<u>Com</u>	oonents:						
m-Cr	esol:						
Effect	s on fertility	:	Species: Rat	vo-generation reproduction toxicity study oute: Ingestion ive			
Effect	Effects on fetal development		Species: Rat	enatal development toxicity study (teratogenicity oute: Ingestion ive			
Interf	eron alfa-2b:						
	s on fertility	:	Species: Mon Fertility: LOAI	EL: 3.8 μg/kg trual irregularities			
Effect	Effects on fetal development		Test Type: Fertility/early embryonic development Species: Monkey Developmental Toxicity: LOAEL: 3.8 µg/kg body weig Result: Embryolethal effects.				
Repro sessr	oductive toxicity - As- nent	:	May damage	fertility. May damage the unborn child.			
	-single exposure						
Not c	assified based on ava	ilable	information.				
	-repeated exposure cause damage to organ	ns (Bl	ood. Bone mar	row) through prolonged or repeated exposure.			
-	oonents:	(_)		· · · · · · · · · · · · · · · · · · ·			
	eron alfa-2b:						
	et Organs		Blood, Bone r	narrow			
. arge	e gano	•	2.000, 20101				

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rsion 5	Revision Date: 09/30/2023		Number: 8-00019	Date of last issue: 04/04/2023 Date of first issue: 01/07/2015
Asses	ssment		lay cause da xposure.	mage to organs through prolonged or repeate
Repe	ated dose toxicity			
<u>Comp</u>	oonents:			
m-Cre	esol:			
Speci	es	: R	at	
NOAE		: 1	50 mg/kg	
Applic	ation Route		ngestion	
Expos	sure time	: 1	3 Weeks	
Metho	od	: C	ECD Test G	uideline 408
Interf	eron alfa-2b:			
Speci	es	: N	lonkey	
NOAE			.095 mg/kg	
Applic	ation Route		tramuscular	
	sure time	: 1	Months	
Rema		: N	lo significant	adverse effects were reported
Speci			at	
NOAE	EL		.38 mg/kg	
	ation Route	: S	ubcutaneous	3
	sure time		Months	
Rema	irks	: N	lo significant	adverse effects were reported
Speci			louse	
NOAE			.076 mg/kg	
	ation Route		ntraperitonea	
	sure time		d	
Rema	irks	: N	lo significant	adverse effects were reported
Speci			lonkey	
LOAE			.38 mg/kg	
	ation Route		ntramuscular	
	sure time		Months	
	t Organs		lood, Bone n	
Rema	irks	: S	ignificant tox	icity observed in testing
Aspir	ation toxicity			
Not cl	assified based on av	ailable inf	ormation.	
Expe	rience with human e	exposure	!	
	oonents:			

Interferon alfa-2b:

Skin contact

: Symptoms: The most common side effects are:, flu-like symptoms, Fever, chills, Fatigue

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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

m-Cresol:

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 8.6 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia pulex (Water flea)): > 99.5 mg/l Exposure time: 48 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Pimephales promelas (fathead minnow)): 1.35 mg/l Exposure time: 32 d Remarks: Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chron- ic toxicity)	:	NOEC (Daphnia magna (Water flea)): 1 mg/l Exposure time: 21 d Remarks: Based on data from similar materials

Persistence and degradability

Components:

m-Cresol:

Biodegradability :	:	Result: Readily biodegradable. Biodegradation: 90 %
		Exposure time: 28 d Method: OECD Test Guideline 301D

Bioaccumulative potential

Components:

m-Cresol:	
Bioaccumulation	: Species: Leuciscus idus (Golden orfe) Bioconcentration factor (BCF): 17 - 20

Partition coefficient: n- : log Pow: 1.96 octanol/water

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues

: Dispose of in accordance with local regulations.

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Conta	minated packaging	: Empty contain handling site fo	e of waste into sewer. ers should be taken to an approved waste or recycling or disposal. e specified: Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.

Domestic regulation

49 CFR Not regulated as a dangerous good

Special precautions for user

Not applicable

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No. Component RQ Calculated produc		Calculated product RQ
		(lbs)	(lbs)
m-Cresol	108-39-4	100	66666

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

SARA 311/312 Hazards	:	Reproductive toxicity Specific target organ toxicity (single or repeated exposure)
SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right To Know

7732-18-5
7558-79-4
108-39-4

according to the OSHA Hazard Communication Standard



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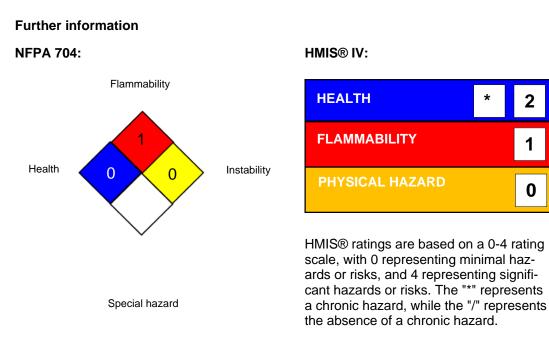
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The i	ngredients of this pr	oduct are report	ted in the following inventories:
AICS		: not detern	nined
DSL		: not detern	nined
IECS	C	: not detern	nined

SECTION 16. OTHER INFORMATION



Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-
		its for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour
		workday during a 40-hour workweek
OSHA Z-1 / 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



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

Revision Date : 09/30/2023

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.

US / Z8