



Version 8.4	Revision Date: 04/04/2023	-	OS Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
SECTION	1. IDENTIFICATION			
Prod	uctname	:	Fenbendazole	(7%) Liquid Formulation
Man	ufacturer or supplier's	det	ails	
Addr Telep Emei	Company name of supplier Address Telephone Emergency telephone		126 E. Lincoln / Rahway, New J 908-740-4000 1-908-423-6000	Avenue ersey U.S.A. 07065
E-ma	ail address	:	EHSDATASTE	WARD@merck.com
	ommended use of the			
Reco	mmended use	:	Veterinary proc	uct
Resti	rictions on use	:	Not applicable	
GHS	I 2. HAZARDS IDENTII classification in acco	-	-	IA Hazard Communication Standard (29 CFR
	oductive toxicity	:	Category 2	
	ific target organ toxicity eated exposure (Oral)	:	Category 2 (Liv	er, Stomach, Nervous system, Lymph nodes)
	label elements rd pictograms	:		
Signa	al Word	:	Warning	
Haza	rd Statements	:	the unborn child H373 May caus	ted of damaging fertility. Suspected of damaging d. e damage to organs (Liver, Stomach, Nervous nodes) through prolonged or repeated exposure
Preca	autionary Statements			

Storage:



ersion .4	Revision Date: 04/04/2023	SDS Number: 26403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
		P405 Store lo	cked up.
		Disposal:	
		•	e of contents and container to an approved waste t.
Other	hazards		
	known.		
ECTION	3. COMPOSITION/IN	FORMATION ON IN	GREDIENTS
Subst	ance / Mixture	: Mixture	
Com	oonents		
	ical name	CAS-No.	Concentration (% w/w)
	ndazole	43210-67-	9 >= 5 - < 10
Silico	n, amorphous	112945-52	2-5 >= 1 - < 5
	4. FIRST AID MEASU		
	<b>4. FIRST AID MEASU</b> al advice	: In the case of advice immed When sympto	accident or if you feel unwell, seek medical liately. Ims persist or in all cases of doubt seek medical
	al advice	<ul> <li>In the case of advice immed When sympto advice.</li> <li>If inhaled, rem</li> </ul>	liately. Ims persist or in all cases of doubt seek medical nove to fresh air.
Gener If inha	al advice	<ul> <li>In the case of advice immed When sympto advice.</li> <li>If inhaled, rem Get medical a</li> <li>In case of corr of water. Remove conta Get medical a</li> </ul>	diately. Ims persist or in all cases of doubt seek medical nove to fresh air. Attention. Intact, immediately flush skin with soap and plenty aminated clothing and shoes. Attention. In before reuse.
Gener If inha In cas	al advice led	<ul> <li>In the case of advice immed When sympto advice.</li> <li>If inhaled, rem Get medical a</li> <li>In case of con of water. Remove conta Get medical a Wash clothing Thoroughly clip</li> <li>Flush eyes with the symptomic of the symptomic sym</li></ul>	diately. Ims persist or in all cases of doubt seek medical nove to fresh air. Attention. Intact, immediately flush skin with soap and plenty aminated clothing and shoes. Attention. In before reuse. ean shoes before reuse. th water as a precaution.
Gener If inha In cas	ral advice lled e of skin contact	<ul> <li>In the case of advice immed When sympto advice.</li> <li>If inhaled, rem Get medical a</li> <li>In case of corrof water. Remove conta Get medical a Wash clothing Thoroughly cliphore in Get medical a Wash clothing Thoroughly cliphore in Get medical a</li> <li>If swallowed, Get medical a a</li> </ul>	diately. Ims persist or in all cases of doubt seek medical nove to fresh air. Attention. Intact, immediately flush skin with soap and plenty aminated clothing and shoes. Attention. In before reuse. ean shoes before reuse. th water as a precaution. Attention if irritation develops and persists. DO NOT induce vomiting. Attention.
Gener If inha In cas If swa Most	ral advice led e of skin contact e of eye contact llowed important symptoms ffects, both acute and	<ul> <li>In the case of advice immed When sympto advice.</li> <li>If inhaled, rem Get medical a</li> <li>In case of corrof water. Remove conta Get medical a</li> <li>Wash clothing Thoroughly cliphoroughly cliphor</li></ul>	diately. Image of the set of the
Gener If inha In cas In cas If swa Most and ef delaye	ral advice led e of skin contact e of eye contact llowed important symptoms ffects, both acute and	<ul> <li>In the case of advice immed When sympto advice.</li> <li>If inhaled, rem Get medical a</li> <li>In case of con of water. Remove conta Get medical a</li> <li>Wash clothing Thoroughly cli</li> <li>Flush eyes wir Get medical a</li> <li>If swallowed, Get medical a</li> <li>Rinse mouth t</li> <li>Suspected of unborn child. May cause da exposure if sy</li> <li>First Aid respondent of the removed of the re</li></ul>	diately. Image of the set of the

### SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Water spray
		Alcohol-resistant foam
		Carbon dioxide (CO2)
		Dry chemical



Version 8.4	Revision Date: 04/04/2023		9S Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014		
	Unsuitable extinguishing media Specific hazards during fire fighting		None known.			
Spec			Exposure to com	oustion products may be a hazard to health.		
	rdous combustion prod-	:	Carbon oxides Nitrogen oxides ( Sulf ur oxides Metal oxides	NOx)		
Spec ods	Specific extinguishing meth- ods		<ul> <li>Use extinguishing measures that are appropriate to local of cumstances and the surrounding environment.</li> <li>Use water spray to cool unopened containers.</li> <li>Remove undamaged containers from fire area if it is safe t so.</li> <li>Evacuate area.</li> </ul>			
	ial protective equipment re-fighters	:	In the event of fire	e, wear self-contained breathing apparatus. tective equipment.		
SECTION	6. ACCIDENTAL RELE	AS	E MEASURES			
tivee	onal precautions, protec- equipment and emer- y procedures	:	Follow safe hand	tective equipment. Ing advice (see section 7) and personal nent recommendations (see section 8).		
Envir	ronmental precautions	:	Prevent spreadin 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		
	ods and materials for ainment and cleaning up	:	For large spills, p containment to ke can be pumped, s container. Clean up remainin absorbent. Local or national disposal of this m employed in the c determine which Sections 13 and	t absorbent material. rovide diking or other appropriate eep material from spreading. If diked material store recovered material in appropriate ng materials from spill with suitable regulations may apply to releases and aterial, as well as those materials and items cleanup of releases. You will need to regulations are applicable. 15 of this SDS provide information regarding attional requirements.		

### SECTION 7. HANDLING AND STORAGE

Technical measures	: See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation Advice on safe handling	<ul> <li>Use only with adequate ventilation.</li> <li>Do not breathe mist or vapors. Do not swallow. Avoid contact with eyes.</li> </ul>



Version 8.4	Revision Date: 04/04/2023	SDS Number: 26403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014			
		Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and saf practice, based on the results of the workplace exposure assessment Take care to prevent spills, waste and minimize release to environment.				
Conditions for safe storage		: Keep in properly labeled containers. Store locked up. Store in accordance with the particular national regulations.				
Materi	ials to avoid		h 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
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal
Silicon, amorphous	112945-52-5	TWA (Dust)	20 Million particles per cubic foot (Silica)	OSHA Z-3
		TWA (Dust)	80 mg/m3 / %SiO2 (Silica)	OSHA Z-3
		TWA	6 mg/m³ (Silica)	NIOSH REL

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.
Personal protective equipmer	nt
	General and local exhaust ventilation is recommended to 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	



Version 8.4	Revision Date: 04/04/2023		DS Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014	
Material		:	: Chemical-resistant gloves		
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 : Hygiene measures :		:	eye flushing syst working place. When using do n Wash contamina The effective ope engineering cont appropriate dego	emical is likely during typical use, provide tems and safety showers close to the not eat, drink or smoke. eted clothing before re-use. eration of a facility should include review of trols, proper personal protective equipment, owning and decontamination procedures, e monitoring, medical surveillance and the	

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	suspension
Color	:	white
Odor	:	characteristic
Odor Threshold	:	No data available
рН	:	6 - 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
Lower explosion limit / Lower flammability limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available



Versi 8.4	ion	Revision Date: 04/04/2023		S Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
Relative density		:	No data availabl	e	
[	Density		:	No data availabl	e
S	Solubility(ies) Water solubility		:	insoluble	
	Partition coefficient: n- octanol/water Autoignition temperature		:	No data availabl	e
			:	No data availabl	e
[	Decomposition temperature		:	No data availabl	e
١	Viscosity Viscosity, kinematic Explosive properties		:	No data availabl	e
E			:	Not explosive	
C	Oxidizi	ng properties	:	The substance of	or mixture is not classified as oxidizing.
Ν	Molecu	ular weight	:	No data availabl	е
F	Particle	esize	:	No data availabl	e

### SECTION 10. STABILITY AND REACTIVITY

Reactivity Chemical stability Possibility of hazardous reac- tions	:	Not classified as a reactivity hazard. Stable under normal conditions. Can react with strong oxidizing agents.
Conditions to avoid Incompatible materials Hazardous decomposition products	:	None known. Oxidizing agents 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:

### fenbendazole:

Acute oral toxicity

: LD50 (Rat): > 10,000 mg/kg

LD50 (Mouse): > 10,000 mg/kg

### SAFETY DATA SHEET



## Fenbendazole (7%) Liquid Formulation

ersion 4	Revision Date: 04/04/2023	SDS Numb 26403-0002	
Silic	on, amorphous:		
	e oral toxicity	Method	Rat): > 5,000 mg/kg : OECD Test Guideline 401 s: Based on data from similar materials
Acute	e inhalation toxicity	Exposu Test atn Assess tion tox	at): > 2.08 mg/l re time: 4 h nosphere: dust/mist ment: The substance or mixture has no acute inhal icity s: Based on data from similar materials
Acute	e dermal toxicity	: LD50 (F Remark	Rabbit): > 5,000 mg/kg s: Based on data from similar materials
	corrosion/irritation	ailable informat	ion.
<u>Com</u>	ponents:		
fenbe	endazole:		
Spec	ies	: Rabbit	
Resu	lt	: No skin	irritation
Silic	on, amorphous:		
Spec		: Rabbit	
Meth			Test Guideline 404
Resu Rema			irritation on data from similar materials
Not c	bus eye damage/eye classified based on ava		ion.
	ponents:		
	endazole:		
Spec Resu		: Rabbit : No eye	irritation
Silic	on, amorphous:		
Spec	•	: Rabbit	
Resu	lt	: No eye	irritation
Meth			Test Guideline 405
Rema	arks	: Based of	on data from similar materials
Resp	iratory or skin sensi	tization	
Skin	sensitization		
Not c	lassified based on av	ailable informat	ion.
Poen	iratory consitization		

### **Respiratory sensitization**

Not classified based on available information.

### SAFETY DATA SHEET



# Fenbendazole (7%) Liquid Formulation

ersion .4	Revision Date: 04/04/2023	SDS Number: 26403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
	<b>cell mutagenicity</b> lassified based on av	ailable information.	
<u>Com</u>	<u>ponents:</u>		
fenbe	endazole:		
Geno	toxicity in vitro	: Test Type: Bao Result: negativ	cterial reverse mutation assay (AMES) re
		Test Type: DN Result: negativ	
		Test Type: Chr Result: negativ	omosomal aberration re
			nouse lymphoma cells vation: Metabolic activation
Silico	on, amorphous:		
	toxicity in vitro	Method: OEC	cterial reverse mutation assay (AMES) D Test Guideline 471 re ed on data from similar materials
Geno	toxicity in vivo	cytogenetic tes Species: Rat Application Ro Result: negativ	

Not classified based on available information.

#### Components:

fenbendazole: Species Application Route Exposure time NOAEL Result	 Mouse oral (feed) 2 Years 405 mg/kg body weight negative
Species Application Route Exposure time NOAEL Result Target Organs	 Rat Oral 2 Years 5 mg/kg body weight negative Lymph nodes, Liver



Version Revisi 8.4 04/04/			9S Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
<b>Silicon, amor</b> Species Application Ro Exposure time Result Remarks	ute	:	Rat Ingestion 103 weeks negative Based on data fro	om similar materials
IARC				t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
OSHA			this product prese regulated carcino	nt at levels greater than or equal to 0.1% is jens.
NTP				t at levels greater than or equal to 0.1% is carcinogen by NTP.
Reproductive Suspected of c Components:	damaging fertility	y. S	Suspected of dama	ging the unborn child.
fenbendazole				
Effects on ferti		:	Species: Rat Application Route General Toxicity I	Parent: NOAEL: 15 mg/kg body weight 45 mg/kg body weight
Effects on feta	I development	:	Result: Embryoto offspring were de Test Type: Embry Species: Rabbit Application Route	nale e: Oral oxicity: LOAEL: 100 mg/kg body weight xic effects and adverse effects on the tected., No teratogenic effects. vo-fetal development e: Oral
			Result: Fetotoxici	
			Species: Rabbit Application Route	vo-fetal development e: Oral oxicity: LOAEL: 63 mg/kg body weight
			Species: Rat Application Route Developmental To	vo-fetal development e: Oral oxicity: NOAEL: 120 mg/kg body weight s on fetal development.
Reproductive t sessment	toxicity - As-	:		f adverse effects on sexual function and animal experiments., Some evidence of



Vers 8.4	sion	Revision Date: 04/04/2023		9S Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
				adverse effects o experiments.	n development, based on animal
		<b>n, amorphous:</b> s on fetal development	:	Species: Rat Application Route Result: negative	yo-fetal development e: Ingestion on data from similar materials
		-single exposure assified based on availa	able	information.	
	May ca	<b>-repeated exposure</b> ause damage to organs d or repeated exposure			vous system, Lymph nodes) through pro-
	<u>Comp</u>	<u>onents:</u>			
	Routes	ndazole: s of exposure Organs sment	:		Vervous system, Lymph nodes ge to organs through prolonged or repeated
	-	ted dose toxicity onents:			
	fenber	ndazole:			
	Expos		:	Rat 500 mg/kg Oral 2 Weeks Kidney, Liver	
		L ation Route ure time	:	Rat > 2,500 mg/kg Oral 30 Days No significant adv	verse effects were reported
	Expos	_ ation Route ure time Organs	:	Rat 1,600 mg/kg Oral 90 Days Central nervous s Tremors	system
		L	:	Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervou	ıs system, Lymph nodes





Version 8.4	Revision Date: 04/04/2023		0S Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
Spo NO App Exp	i <b>con, amorphous:</b> ecies AEL plication Route posure time narks	: : : : : : : : : : : : : : : : : : : :	Rat 1.3 mg/l inhalation (dust/n 13 Weeks Based on data fro	nist/fume) om similar materials
	<b>piration toxicity</b> t classified based on availa	able	information.	
<u>Co</u>	mponents:			
-	<b>bendazole:</b> aspiration toxicity classific	atic	on	
Ex	perience with human exp	os	ure	
<u>Co</u>	mponents:			
-	<b>bendazole:</b> estion	:	Symptoms: Rapid	d respiration, Salivation, anorexia, Diarrhea
SECTIO	N 12. ECOLOGICAL INF	OR	MATION	
Fo	otoxicity			
	mponents:			
	bendazole:			
-	cicity to fish	:	LC50 (Lepomis n Exposure time: 2	nacrochirus (Bluegill sunfish)): 0.009 mg/l 1 d
	cicity to daphnia and other latic invertebrates	:	Exposure time: 4	nagna (Water flea)): 0.008 mg/l 8 h Test Guideline 202
aqı	cicity to daphnia and other natic invertebrates (Chron- oxicity)		Exposure time: 2	magna (Water flea)): 0.00113 mg/l 1 Days est Guideline 211
Sil	icon, amorphous:			
	cicity to fish	:	Exposure time: 9 Method: OECD T	o (zebra fish)): > 10,000 mg/l 6 h ēst Guideline 203 on data from similar materials
	cicity to daphnia and other latic invertebrates	:	Exposure time: 2 Method: OECD T	nagna (Water flea)): > 1,000 mg/l 4 h Test Guideline 202 on data from similar materials
Тох	cicity to algae/aquatic	:	EC50 (Desmodes	smus subspicatus (green algae)): > 10,000
			11 / 16	



Version 8.4	Revision Date: 04/04/2023		DS Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
plants				2 h Fest Guideline 201 I on data from similar materials
			mg/l Exposure time: 7 Method: OECD	esmus subspicatus (green algae)): 10,000 2 h Fest Guideline 201 on data from similar materials
	stence and degradabi ta available	ility		
Bioad	cumulative potential			
<u>Com</u>	oonents:			
Partiti	n <b>dazole:</b> on coefficient: n- ol/water	:	log Pow: 3.32	
Mobi	lity in soil			
<u>Com</u>	oonents:			
Distri	ndazole: oution among environ- ll compartments	:	log Koc: 3.8 - 4.7 Method: FDA 3.0	
Other	adverse effects			
No da	ta available			
SECTION	13. DISPOSAL CONS	IDE	RATIONS	
Dispo	osal methods			
•	from residues	:		cordance with local regulations.
Conta	minated packaging	:	Empty containers handling site for	of waste into sewer. s should be taken to an approved waste recycling or disposal. specified: 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. (fenbendazole)
Class	:	9
Packing group	:	
Labels	:	9



Version 8.4	Revision Date: 04/04/2023		9S Number: 403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
<b>IATA-I</b> UN/ID Prope	-	:		nazardous substance, liquid, n.o.s.
Labels	ng instruction (cargo	:	(fenbendazole) 9 III Miscellaneous 964	
Packir ger air	g instruction (passen-	:	964 yes	
<b>IMDG-</b> UN nu Prope		:	UN 3082 ENVIRONMENT/ N.O.S. (fenbendazole)	ALLY HAZARDOUS SUBSTANCE, LIQUID,
Labels EmS (		:	9 III 9 F-A, S-F yes	
	port in bulk according	-		POL 73/78 and the IBC Code
Dome	stic regulation			
	<b>R</b> /NA number r shipping name	:	UN 3082 Environmentally I (fenbendazole)	nazardous substance, liquid, n.o.s.
Class Packir	na aroup	:	9	

Class	•	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	171
Marine pollutant	:	yes(fenbendazole)
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.



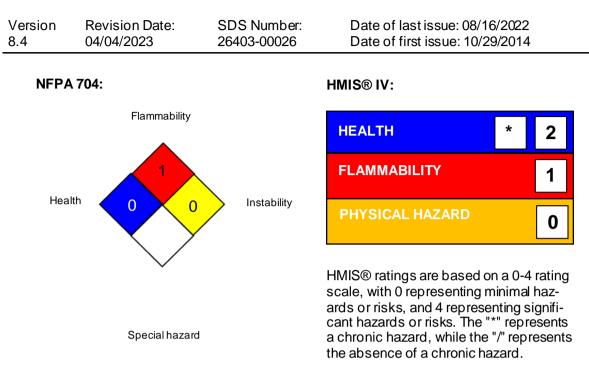


Version 8.4	Revision Date: 04/04/2023	SDS Number: 26403-00026	Date of last issue: 08/16/2022 Date of first issue: 10/29/2014
	•		<b>es Reportable Quantity</b> Its with a section 304 EHS RQ.
	•		es Threshold Planning Quantity Its with a section 302 EHS TPQ.
SAR	A 311/312 Hazards	: Reproduct Specific ta	ve toxicity rget organ toxicity (single or repeated exposure)
SAR	A 313	known CAS	al does not contain any chemical components with S numbers that exceed the threshold (De Minimis) evels established by SARA Title III, Section 313.
US S	tate Regulations		
Penn	<b>sylvania Right To Kn</b> Water fenbendazole Silicon, amorphou		7732-18-5 43210-67-9 112945-52-5
Calif	ornia Permissible Exp Silicon, amorphou		Chemical Contaminants 112945-52-5
<b>The i</b> AICS	•	oduct are reporte : not determ	ed in the following inventories: ined
DSL		: not determ	ined
IECS	С	: not determ	ined

### **SECTION 16. OTHER INFORMATION**

Further information





#### Full text of other abbreviations

NIOSH REL OSHA Z-3		USA. NIOSH Recommended Exposure Limits USA. Occupational Exposure Limits (OSHA) - Table Z-3 Min- eral Dusts
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
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; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concern-





Version	Revision Date:	SDS Number:	Date of last issue: 08/16/2022
8.4	04/04/2023	26403-00026	Date of first issue: 10/29/2014

ing 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
	eChem Portal search results and European Chemicals Agen- cy, http://echa.europa.eu/

Revision Date : 04/04/2023

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