according to the OSHA Hazard Communication Standard



Fenbendazole (22.2%) Solid Formulation

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SECTION 1. IDENTIFICATION

Product name	:	Fenbendazole (22.2%) Solid 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	:	Veterinary product Not applicable			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200) Combustible dust				
Reproductive toxicity	:	Category 2		
Specific target organ toxicity - repeated exposure (Oral)	:	Category 2 (Liver, Stomach, Nervous system, Lymph nodes)		
GHS label elements Hazard pictograms	:			
Signal Word	:	Warning		
Hazard Statements	:	If small particles are generated during further processing, han- dling or by other means, may form combustible dust concentra- tions in air. H361fd Suspected of damaging fertility. Suspected of damaging the unborn child. H373 May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated exposure if swallowed.		
Precautionary Statements	:	 Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust, fume, gas, mist, vapors or spray. P280 Wear protective gloves, protective clothing, eye protection 		

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and face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents and container to an approved waste 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)
Starch	9005-25-8	>= 50 - < 70
fenbendazole	43210-67-9	>= 20 - < 30

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 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. Rinse mouth thoroughly with water.
Most important symptoms : and effects, both acute and delayed	Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure if swallowed. Contact with dust can cause mechanical irritation or drying of the skin. Dust contact with the eyes can lead to mechanical irritation.

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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 1	to physician	:	Treat symptomatically and supportively.		
SEC	TION 5	. FIRE-FIGHTING ME	ASL	JRES		
Suitable extinguishing media		:	Water spray Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical			
	Unsuita media	able extinguishing	:	None known.		
	Specific hazards during fire fighting		:	Exposure to com	pustion products may be a hazard to health.	
	Hazardous combustion prod- ucts		:	Carbon oxides Nitrogen oxides (Sulfur oxides	NOx)	
	Specifi ods	c extinguishing meth-	: Use extinguishing measures that are appropriate to cumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is so. Evacuate area.		the surrounding environment. to cool unopened containers.	
		l protective equipment fighters				
SEC	TION 6	. ACCIDENTAL RELE	AS	E MEASURES		
	tive eq	al precautions, protec- uipment and emer- procedures	:	Follow safe hand	tective equipment. ling advice (see section 7) and personal nent recommendations (see section 8).	
	F astings	an antal are as utions		Avaid valages to t	he en incoment	

E	nvironmental 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.
	fethods and materials for : ontainment and cleaning up	Sweep up or vacuum up spillage and collect in suitable container for disposal. 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. 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.

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SECTION 7. HANDLING AND STORAGE

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.
Local/Total ventilation Advice on safe handling		Use only with adequate ventilation. Do not breathe dust, fume, gas, mist, vapors or spray. Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment 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 the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store locked up. Store in accordance with the particular national regulations.
Materials to avoid	:	Do not store with the following product types: Strong oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Starch	9005-25-8	TWA	10 mg/m ³	ACGIH
		TWA (Res- pirable)	5 mg/m³	NIOSH REL
		TWA (total)	10 mg/m ³	NIOSH REL
		TWA (total dust)	15 mg/m³	OSHA Z-1
		TWA (respir- able fraction)	5 mg/m³	OSHA Z-1
fenbendazole	43210-67-9	TWA	100 µg/m3 (OEB 2)	Internal

Engineering measures :	Use feasible engineering controls to minimize exposure to compound. All engineering controls should be implemented by facility design and operated in accordance with GMP principles to protect products, workers, and the environment.
Personal protective equipmen	t
Respiratory protection :	General and local exhaust ventilation is recommended to

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Hand protection Material		concentration unknown, a Follow OSH use NIOSH by air purify hazardous supplied rea release, exp circumstance adequate p	 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. Chemical-resistant gloves 		
Eye protection		If the work mists or ae Wear a face	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		
Skin and body protection Hygiene measures		: Work unifor : If exposure eye flushing working pla When using Wash conta The effectiv engineering appropriate industrial hy	rm or laboratory coat. to chemical is likely during typical use, provide g systems and safety showers close to the ce. g do not eat, drink or smoke. aminated clothing before re-use. re operation of a facility should include review of g controls, proper personal protective equipment, degowning and decontamination procedures, rgiene monitoring, medical surveillance and the inistrative controls.		

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	granules
Color	:	white to off-white
Odor	:	No data available
Odor Threshold	:	No data available
рН	:	5 - 7
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	May form explosive dust-air mixture during processing,

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			handling or other	means.
Flamr	mability (liquids)	:	No data available	9
	r explosion limit / Upper nability limit	:	No data available	9
	r explosion limit / Lower nability limit	:	No data available	9
Vapo	r pressure	:	Not applicable	
Relati	ive vapor density	:	Not applicable	
Relati	ive density	:	No data available	9
Densi	ity	:	No data available	9
	ility(ies) ater solubility	:	insoluble	
	ion coefficient: n- ol/water	:	Not applicable	
	gnition temperature	:	No data available	9
Deco	mposition temperature	:	No data available	9
Visco Vis	sity scosity, kinematic	:	Not applicable	
Explo	sive properties	:	Not explosive	
Oxidiz	zing properties	:	The substance o	r mixture is not classified as oxidizing.
Moleo	cular weight	:	No data available	9
Partic	le size	:	No data available	9

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.

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely rout Inhalation Skin contact Ingestion Eye contact Acute toxicity	es of	exposure	
Not classified based on ava	ailable	information.	
Components:			
Starch:			
Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg	
Acute dermal toxicity	:	LD50 (Rabbit): > 2,000 mg/kg	
fenbendazole: Acute oral toxicity	:	LD50 (Rat): > 10,000 mg/kg	
		LD50 (Mouse): > 10,000 mg/kg	
Skin corrosion/irritation Not classified based on ava <u>Components:</u> fenbendazole:	ailable	information.	
Species Result	:	Rabbit No skin irritation	
Serious eye damage/eye irritation Not classified based on available information. Components:			
Starch: Species Result	:	Rabbit No eye irritation	
fenbendazole: Species Result	:	Rabbit No eye irritation	
Respiratory or skin sensitization			

Skin sensitization

Not classified based on available information.

Target Organs

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-	iratory sensitization lassified based on ava	ailable information.	
Com	oonents:		
Starc Test ⊺ Route Speci Resul	Гуре es of exposure es	: Maximizati : Skin conta : Guinea pig : negative	ct
	a cell mutagenicity lassified based on ava	ailable information.	
Comp	oonents:		
Starc Geno	h: toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative
	endazole: toxicity in vitro	: Test Type: Result: neg	Bacterial reverse mutation assay (AMES) gative
		Test Type: Result: neg	DNA Repair gative
		Test Type: Result: neț	Chromosomal aberration gative
		Test system	in vitro test m: mouse lymphoma cells activation: Metabolic activation uivocal
	nogenicity lassified based on ava	ailable information.	
Comp	<u>oonents:</u>		
fenbe	endazole:		
	cation Route sure time EL	: Mouse : oral (feed) : 2 Years : 405 mg/kg : negative	body weight
Expos NOAE Resul	cation Route sure time EL	: Rat : Oral : 2 Years : 5 mg/kg bo : negative	

Lymph nodes, Liver

:





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IARC	0		esent at levels greater than or equal to 0.1% is or confirmed human carcinogen by IARC.	
OSH		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.		
Suspe	oductive toxicity ected of damaging fert ponents:	ility. Suspected of d	amaging the unborn child.	
fenbe	endazole: ts on fertility	Species: Rat Application F General Toxi	Route: oral (feed) city Parent: NOAEL: 15 mg/kg body weight EL: 45 mg/kg body weight	
Effect	ts on fetal developmer	Species: Doc Application R Developmen Result: Embr	g, female	
		Species: Rat Application R	Route: Oral tal Toxicity: NOAEL: 25 mg/kg body weight	
		Species: Rat Application R		
		Species: Rat Application F Developmen		
Repro sessn	oductive toxicity - As- nent	fertility, base	nce of adverse effects on sexual function and d on animal experiments., Some evidence of cts on development, based on animal	

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STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

May cause damage to organs (Liver, Stomach, Nervous system, Lymph nodes) through prolonged or repeated exposure if swallowed.

Components:

fenbendazole:

Routes of exposure	: Ingestion
Target Organs	: Liver, Stomach, Nervous system, Lymph nodes
Assessment	: May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

Components:

Starch:

Species	:	Rat
NOAEL	:	>= 2,000 mg/kg
Application Route	:	Skin contact
Exposure time	:	28 Days
Method	:	OECD Test Guideline 410

fenbendazole:

Species	: Rat	
LÕAEL	: 500 mg/kg	
Application Route	: Oral	
Exposure time	: 2 Weeks	
Target Organs	: Kidney, Liver	

Species:NOAEL:Application Route:Exposure time:Remarks:	Rat > 2,500 mg/kg Oral 30 Days No significant adverse effects were reported
Species:LOAEL:Application Route:Exposure time:Target Organs:Symptoms:	Rat 1,600 mg/kg Oral 90 Days Central nervous system Tremors
Species:NOAEL:LOAEL:Exposure time:Target Organs:	Dog 4 mg/kg 8 mg/kg 6 Months Stomach, Nervous system, Lymph nodes

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Aspir	ation toxicity			
Not cl	assified based on availa	ble	information.	
<u>Comp</u>	oonents:			
	ndazole:			
No as	piration toxicity classifica	atio	1	
Expe	rience with human exp	osu	ire	
<u>Comp</u>	oonents:			
fenbe	endazole:			
Inges	tion	:	Symptoms: Rapic	I respiration, Salivation, anorexia, Diarrhea
ECTION	12. ECOLOGICAL INFO	ORN	ATION	
Ecoto	oxicity			
Com	oonents:			
fenbe	endazole:			
Toxici	ty to fish	:	LC50 (Lepomis m Exposure time: 21	acrochirus (Bluegill sunfish)): 0.009 mg/l 1 d
	ty to daphnia and other ic invertebrates	:	EC50 (Daphnia m Exposure time: 48	nagna (Water flea)): 0.0088 mg/l 3 h
				est Guideline 202
	ty to daphnia and other	:		nagna (Water flea)): 0.00113 mg/l
aquat ic toxi	ic invertebrates (Chron- city)		Exposure time: 2 ² Method: OECD T	1 Days est Guideline 211
Persi	stence and degradabili	itv		
No da	ita available	•		
Bioac	cumulative potential			
<u>Comp</u>	oonents:			
Partiti	ndazole: on coefficient: n- ol/water	:	log Pow: 3.32	
Mobil	ity in soil			
<u>Comp</u>	oonents:			
fenbe	endazole:			
	oution among environ-	:	0	
menta	al compartments		Method: FDA 3.08	8

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Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods		
Waste from residues	:	Dispos

Waste from residues	:	Dispose of in accordance with local regulations.
		Do not dispose of waste into sewer.
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 product.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (fenbendazole)
Class	:	9
Packing group	:	III
Labels	:	9
Environmentally hazardous	:	yes
IATA-DGR		
UN/ID No.	:	UN 3077
Proper shipping name	:	Environmentally hazardous substance, solid, n.o.s. (fenbendazole)
Class	:	9
Packing group	:	
Labels	:	Miscellaneous
Packing instruction (cargo aircraft)	:	956
Packing instruction (passen- ger aircraft)	:	956
Environmentally hazardous	:	yes
IMDG-Code		
UN number	:	UN 3077
Proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
		(fenbendazole)
Class	÷	9
Packing group	÷	
Labels	÷	9
EmS Code	÷	F-A, S-F
Marine pollutant	•	yes

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

Not applicable for product as supplied.

Domestic regulation

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Proper Class Packin Labels ERG C	NA number shipping name g group Code pollutant	(fenbendazole) 9 III CLASS 9 171 yes(fenbendazole Above applies on liters. Shipment by grou may be shipped p	e) by to containers over 119 gallons or 450 nd under DOT is non-regulated; however it ber the applicable hazard classification to dal 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	:	Combustible dust 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	
Starch	9005-25-8 64044-51-5
D-Glucose, 4-O-β-D-galactopyranosyl-, monohydrate fenbendazole	43210-67-9
California List of Hazardous Substances	
Polyvinyl pyrrolidone	9003-39-8
California Permissible Exposure Limits for Chemical Contaminants	
Starch	9005-25-8
The increasing the set of this was due to see you acted in the following increasion	

The ingredients of this product are reported in the following inventories:

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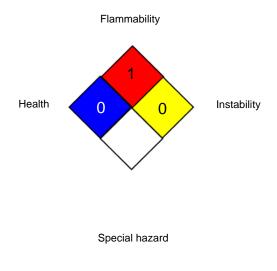
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AICS		: not determined	
DSL		: not determined	
IECSC	2	: not determined	

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

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

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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

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

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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