

Eastman(TM) CHDM-D PO00091311

Vers 2.4 PRD	sion	Revision Date: 09/01/2020	15	DS Number: 0000001802 ISUS / Z8 / 0001	Date of last issue: 02/07/2019 Date of first issue: 09/06/2016 N46 / 0090151766 / 0004272709			
SEC	TION 1	. IDENTIFICATION						
	Produc	t name	:	: Eastman(TM) CHDM-D				
	Produc	t code	:	P06792N4				
		acturer or supplier's						
	Compa	ny name of supplier	:	Eastman Chemic	al Company			
	Addres	S	:	200 South Wilcox Kingsport TN 376				
	Teleph	one	:	(423) 229-2000				
	Emerge	ency telephone	:	CHEMTREC: +1	-800-424-9300, +1-703-527-3887 CCN7321			
	Recom	mended use of the c	hen	nical and restriction	ons on use			
	Recom	mended use	:	Chemical interme	diate			
Restrictions on use		:	None known.					

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accor Serious eye damage	GHS classification in accordance with 29 CFR 1910.1200 Serious eye damage : Category 1				
GHS label elements Hazard pictograms	:				
Signal Word	:	Danger			
Hazard Statements	:	H318 Causes serious eye damage.			
Precautionary Statements	:	Prevention: P280 Wear eye protection/ face protection.			
		Response: P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.			
		Disposal: P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regu-			



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lations.

Other hazards

Molten material will produce thermal burns.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,4-cyclohexanedimethanol	105-08-8	100

SECTION 4. FIRST AID MEASURES

If inhaled	:	Move to fresh air. Treat symptomatically. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with soap and water. Get medical attention if symptoms occur.
In case of eye contact	:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical advice/ attention.
If swallowed	:	Seek medical advice.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye damage. The molten product can cause serious burns.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray to extinguish. Dry chemical Carbon dioxide (CO2)
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	None known.
Hazardous combustion prod- ucts	:	No hazardous combustion products are known
Further information	:	None known.
Special protective equipment for fire-fighters	:	In the event of fire, wear self-contained breathing apparatus.



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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Wear appropriate personal protective equipment. Only qualified personnel equipped with suitable protective equipment may intervene.
Environmental precautions	:	Avoid release to the environment.
Methods and materials for containment and cleaning up	:	Flush with water. Clean contaminated surface thoroughly. Prevent runoff from entering drains, sewers, or streams.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	None known.
Advice on safe handling	:	Do not get in eyes. Wash thoroughly after handling.
Conditions for safe storage	:	Keep container tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne
		levels to an acceptable level.

Personal protective equipment

Respiratory protection :	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear a positive-pressure supplied-air respirator with full facepiece.
Eye protection :	Wear a face shield when working with molten material. Wear safety glasses with side shields (or goggles).
Protective measures :	PPE selections vary based on potential exposure conditions such as application, handling practices, concentration and ventilation.



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				e selection of protective equipment for use s based upon intended, normal usage.
Hygien	e measures	:	Handle in accorda practice.	nce with good industrial hygiene and safety
ECTION 9	. PHYSICAL AND CHI	ЕМІС		3
Appear	ance	:	Wax like	
Color		:	off-white	
Odor		:	mild	
Odor T	hreshold	:	not determined	
pН		:	Not applicable	
Melting	point/range	:	106 - 142 °F / 41	- 61 °C
Boiling	point/boiling range	:	545.9 °F / 285.5	°C
Flash p	oint	:	334 °F / 168 °C	
			Method: Seta clo	sed cup
Evapor	ation rate	:	not determined	
Flamma	ability (solid, gas)	:	Not applicable	
Self-igr	hition	:	601 °F / 316 °C Method: ASTM E	659
	explosion limit / Upper bility limit	:	Not applicable	
	explosion limit / Lower bility limit	:	Not applicable	
Vapor p	pressure	:	< 0.24 Pa (68 °F	/ 20 °C)
Relative	e vapor density	:	5	
Relative	e density	:	1.082	
Solubili Wat	ty(ies) er solubility	:	34 - 143 g/l(77 °	°F / 25 °C)
Partition octanol	n coefficient: n- /water	:	log Pow: 0.36 - 1	.49 (77 °F / 25 °C)



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	Autoignition temperature	:	not determined	
	Decomposition temperature	:	Method: HPDTA	
	Self-Accelerating decomposi- tion temperature (SADT)		GLP: Not applica	ble
	Viscosity Viscosity, dynamic	:	Not applicable	
	Viscosity, kinematic	:	Not applicable	
	Explosive properties	:	Not classified	
	Oxidizing properties	:	Not classified	
	Surface tension	:	Not applicable	

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	None known. Stable
Conditions to avoid	:	Incompatible materials
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO2) Carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	LD50 Oral (Rat): > 2,000 mg/kg
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	LD50 Dermal (Guinea pig): > 1,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species

: Rabbit



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	Exposure time Result		:	24 h none	
	Components:				
	1,4-cyc	clohexanedimethanol	:		
	Specie Exposu Result	s ure time	:	Rabbit 24 h none	
		s eye damage/eye irr s serious eye damage.		on	
	Produc	<u>ct:</u>			
	Specie	S	:	Rabbit	
	Result		:	Corrosive	
	Exposi	ure time	-	24 h	
	Remar	ks	:	No data available	
<u>Components:</u> 1,4-cyclohexanedimethar		onents:			
		clohexanedimethanol	:		
	Specie	S	:	Rabbit	
	Result		:	Corrosive	
	Exposi	ure time	:	24 h	
Respiratory or skin sensi			atic	on	
	Skin se	ensitization			
	Not cla	ssified based on availa	able	information.	
	Respir	atory sensitization			
	Not cla	ssified based on availa	able	information.	
	Produc	<u>ct:</u>			
	Test Ty	/pe	:	OECD 406: Guine	ea pig sensitization
	Specie	S	:	Guinea pig	
	Result		:	non-sensitizing	
	Compo	onents:			
	1,4-cyc	clohexanedimethanol	:		
	Test Ty		:		ea pig sensitization
	Specie	S	:	Guinea pig	
	Result		:	Did not cause ser	nsitization on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro

: Test Type: Mutagenicity - Mammalian



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		Metho		n: +/- activation ammalian Cell Gene Mutation Test			
Genotoxic	ity in vivo	Applic Metho Test	: Species: Rat Application Route: oral: gavage Method: Mammalian Bone Marrow Chromosome Aberration Test Result: negative				
Compone	ents:						
1,4-cyclo	hexanedimetha	nol:					
Genotoxic	ity in vitro	Metab Metho	olic activatio	enicity - Mammalian on: +/- activation ammalian Cell Gene Mutation Test			
		Result	ype: Ames t : negative rks: National	est I Toxicology Program Study			
Genotoxicity in vivo		Applic Metho Test	Application Route: oral: gavage Method: Mammalian Bone Marrow Chromosome Aberration				
Carcinog Not classi	enicity fied based on av	ailable informa	ation.				
Product:							
Remarks		: This ir	nformation is	not available.			
IARC				at levels greater than or equal to 0.1% i nfirmed human carcinogen by IARC.			
OSHA		nent of this pro s list of regulat		t at levels greater than or equal to 0.1% ens.			
NTP				at levels greater than or equal to 0.1% i arcinogen by NTP.			
-	ctive toxicity fied based on av	ailable informa	ation.				
Product:							
Effects on	fertility	: Rema	rks: No data	available			

1,4-cyclohexanedimethanol:



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I	Effects on fertility :		:	Species: Rat, male and female Application Route: Ingestion General Toxicity Parent: NOAEL: 479 mg/kg body weight Method: OECD Test Guideline 421					
				Species: Rat, mal Application Route General Toxicity F Method: OECD Te	: Ingestion Parent: NOAEL: 700 mg/kg body weight				
		single exposure ssified based on availa	ble	information.					
-	Produc Remark		:	No data available					
<u>(</u>	Compo	onents:							
	1,4-cyc	lohexanedimethanol	:						
	Assess	ment	:	Not classified					
	STOT-repeated exposure Not classified based on available information.								
ļ	Produc	: <u>t:</u>							
ļ	Remark	(S	:	No data available					
	Compo	onents:							
	1,4-cyc	lohexanedimethanol	:						
	Assess	ment	:	Not classified					
I	Repeat	ed dose toxicity							
<u> </u>	Produc	: <u>t:</u>							
:	Species	3	:	Rat, male					
	Applica	tion Route	:	479 mg/kg in drinking water					
	Exposu		:	90 d					
	Species		:	Rat, female 754 mg/kg					
	Applica Exposu	tion Route re time	:	in drinking water 90 h					
<u>(</u>	Compo	onents:							
	1,4-cyc	lohexanedimethanol	:						
	Species		:	Rat, male					
	Applica	tion Route	:	479 mg/kg in drinking water					



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E	xposure time	:	90 d	
A	Species Application Route Exposure time Aspiration toxicity Not classified based on availa <u>Product:</u> No data available Information on likely routes <u>Product:</u>		Rat, female 754 mg/kg in drinking water 90 h	
N <u>Pi</u> N				
			exposure	
	halation	:	Remarks: None k	nown.
SI	kin contact	:	Remarks: None k	nown.
E	ye contact	:	: Remarks: Causes serious eye damage.	
In	gestion	:	Remarks: None k	nown.
F	Further information			
P	roduct:			
R	emarks	:	None known.	

SECTION 12. ECOLOGICAL INFORMATION

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Dr	200	luc	4-
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Toxicity to fish	:	LC50 (Fish): > 125.3 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Chlorella pyrenoidosa): > 122.9 mg/l Exposure time: 72 h
Toxicity to fish (Chronic tox- icity)	:	NOEC (Fish): >= 125.3 mg/l

Components:

1,4-cyclohexanedimethanol:		
Toxicity to fish	:	LC50 (Fish): > 125.3 mg/l Exposure time: 96 h



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		to daphnia and other invertebrates	:	LC50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
	Toxicity plants	to algae/aquatic	:	EC50 (Chlorella p Exposure time: 72	yrenoidosa): > 122.9 mg/l ? h
				NOEC: (Chlorella Exposure time: 72	pyrenoidosa): >= 122.9 mg/l ? h
	Toxicity icity)	to fish (Chronic tox-	:	NOEC (Fish): >= 7	125.3 mg/l
	Persist	ence and degradabili	ity		
	Produc	et:			
		 radability	:	Result: Readily bid Biodegradation: 9 Exposure time: 28 Method: Ready Bi	99.2 %
	Biocher mand (I	nical Oxygen De- BOD)	:	BOD-5: 25 mg/g	
			:	BOD-20: 1,400 mg/g	
	Chemic (COD)	al Oxygen Demand	:	2,400 mg/g	
	<u>Compo</u>	onents:			
		lohexanedimethanol: adability	:	Result: Readily bio Biodegradation: 9 Exposure time: 28 Method: Ready Bi	99.2 %
	Biocher mand (I	nical Oxygen De- BOD)	:	BOD-5: 25 mg/g	
				BOD-20: 1,400 mg/g	
	Chemic (COD)	al Oxygen Demand	:	2,400 mg/g	
	Bioacc	umulative potential			
	Produc	<u>:t:</u>			
	Bioaccu	umulation	:	Bioconcentration f Method: estimated	



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<u>Con</u>	nponents:					
1,4-0	cyclohexanedimethano	l:				
Bioa	Bioaccumulation		Bioconcentration factor (BCF): 4.45 Method: estimated			
	ition coefficient: n- nol/water	:	log Pow: 0.36 - 1.47 (77 °F / 25 °C)			
Mob	bility in soil					
Proc	duct:					
	ribution among environ- tal compartments	:	: log Koc: 0.499 - 1.6 Method: QSAR model			
<u>Con</u>	nponents:					
1,4-0	cyclohexanedimethano	l:				
	ribution among environ- tal compartments	:	log Koc: 0.499 - ⁻ Method: QSAR n			
Othe	er adverse effects					
<u>Con</u>	nponents:					
1,4-0	cyclohexanedimethano	l:				
Doo	ults of PBT and vPvB	:	: Not fulfilling vPvB (very persistent, very bioaccumulative) crite ria.			
	essment					
asse	essment N 13. DISPOSAL CONSI	DEF	RATIONS			
asse ECTION	N 13. DISPOSAL CONSI	DEF	ATIONS			
asse ECTION Disp		DEF :		ordance with local regulations.		
asse ECTION Disp Was	N 13. DISPOSAL CONSI posal methods	:	Dispose of in acc	ordance with local regulations.		
asse ECTION Disp Was ECTION	N 13. DISPOSAL CONSI Dosal methods Ste from residues N 14. TRANSPORT INFO	:	Dispose of in acc	ordance with local regulations.		
asse ECTION Disp Was ECTION	N 13. DISPOSAL CONSI Dosal methods ste from residues	:	Dispose of in acc	ordance with local regulations.		
asse ECTION Disp Was ECTION Inter IAT/ Not	N 13. DISPOSAL CONSI Dosal methods Ste from residues N 14. TRANSPORT INFO	: DRM	Dispose of in acc			
asse ECTION Disp Was ECTION Inter IAT/ Not	N 13. DISPOSAL CONSI cosal methods ste from residues N 14. TRANSPORT INFO rnational Regulations A-DGR regulated as a dangerous	: DRM	Dispose of in acc ATION	s product are not regulated. Forbidden on rted molten in bulk at temperatures equal to		
ECTION Disp Was ECTION Inter INT Not Rem	N 13. DISPOSAL CONSI cosal methods ste from residues N 14. TRANSPORT INFC rnational Regulations A-DGR regulated as a dangerous harks G-Code	: DRM	Dispose of in acc ATION Solid forms of thi aircraft if transpo or exceeding 100	s product are not regulated. Forbidden on rted molten in bulk at temperatures equal to		
ECTION Disp Was ECTION Inter INT Not Rem	N 13. DISPOSAL CONSI cosal methods ate from residues N 14. TRANSPORT INFO rnational Regulations A-DGR regulated as a dangerous harks G-Code number	: DRM	Dispose of in acc ATION Solid forms of thi aircraft if transpo or exceeding 100 UN 3257	s product are not regulated. Forbidden on rted molten in bulk at temperatures equal to 0 C (212 F).		
ECTION Disp Was ECTION Inter INT Not Rem	N 13. DISPOSAL CONSI cosal methods ate from residues N 14. TRANSPORT INFO rnational Regulations A-DGR regulated as a dangerous harks G-Code number per shipping name	: DRM	Dispose of in acc ATION Solid forms of thi aircraft if transpo or exceeding 100 UN 3257	s product are not regulated. Forbidden on rted molten in bulk at temperatures equal to 0 C (212 F). PERATURE LIQUID, N.O.S.		



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Labels EmS C Marine Remar	Code e pollutant		liquid is offered for transport or is ging, at or above 100°C and below not regulated.

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		
UN/ID/NA number	:	UN 3257
Proper shipping name	:	Elevated temperature liquid, n.o.s.
		(1,4-cyclohexanedimethanol)
Class	:	9
Packing group	:	III
Labels	:	CLASS 9
ERG Code	:	128
Marine pollutant	:	no
Remarks	:	9, Packing Group III when liquid is offered for transport or is
		transported, in bulk packaging, at or above 100°C and below
		its flash point; otherwise, not regulated.

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

EPCRA - Emergency Planning and Community Right-to-Know

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	:	Acute Health Hazard
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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.



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California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:				
TCSI	:	On the inventory, or in compliance with the inventory		
TSCA	:	All substances listed as active on the TSCA inventory		
AICS	:	On the inventory, or in compliance with the inventory		
DSL	:	All components of this product are on the Canadian DSL		
ENCS	:	On the inventory, or in compliance with the inventory		
ISHL	:	On the inventory, or in compliance with the inventory		
KECI	:	On the inventory, or in compliance with the inventory		
PICCS	:	On the inventory, or in compliance with the inventory		
IECSC	:	On the inventory, or in compliance with the inventory		

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

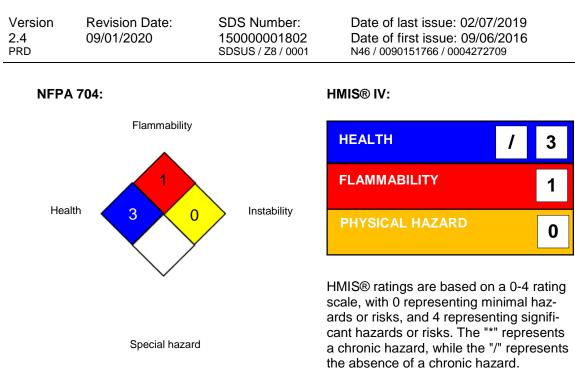
SECTION 16. OTHER INFORMATION

Further information



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Full text of other abbreviations

AICS - Australian Inventory of Chemical Substances; 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 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; 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



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Revision Date

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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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

US / Z8