

Eastman(TM) CHDM-D90

Version 2.2 PRD	Revision Date: 07/23/2021	150	S Number: 000001807 US / Z8/ 0001	Date of last issue: 02/07/2019 Date of first issue: 09/06/2016		
SECTION	1. IDENTIFICATION					
Prod	luct name	:	Eastman(TM) CHDM-D90			
Product code			10674-00, P10674NB, P10674NT, P10674NZ, P10674N2, P10674N2, P10674NM, E1067401, 82000125			
Man	ufacturer or supplier's	s detai	Is			
Com	pany name of supplier	:	Eastman Chemica	al Company		
Address			200 South Wilcox Drive Kingsport TN 37660-5280			
Tele	phone	:	(423) 229-2000			
Eme	ergency telephone	:	CHEMTREC: +1	-800-424-9300, +1-703-527-3887 CCN7321		
Recommended use of the o		chemi	ical and restriction	ons on use		
Reco	ommended use	:	Chemical interme	diate		
Rest	rictions on use	:	None known.			

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (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. 				



Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Concentration (% w/w)
1,4-cyclohexanedimethanol	105-08-8	>= 90 - <= 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. If symptoms persist, call a physician.
In case of eye contact	:	Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
If swallowed	:	Seek medical advice.
Most important symptoms and effects, both acute and delayed	:	Causes serious eye damage.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Carbon dioxide (CO2) Dry chemical Water spray
Specific hazards during fire fighting	:	None known.
Further information	:	None known.
Special protective equipment for fire-fighters	:	Wear an approved positive pressure self-contained breathing apparatus in addition to standard fire fighting gear.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :	Wear appropriate personal protective equipment.
tive equipment and emer-	Local authorities should be advised if significant spillages
gency procedures	cannot be contained.



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Metho	onmental precautions ods and materials for inment and cleaning up	:	container for disp Contain spillage, material, (e.g. sar and transfer to a	um up spillage and collect in suitable

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 tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures	:	Ensure adequate ventilation.

Personal protective equipment

Respiratory protection	:	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.				
Hand protection						
Remarks	:	Wear suitable gloves.				
Eye protection	:	Wear safety glasses with side shields (or goggles). Face-shield Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.				
Protective measures	:	Remove respiratory and skin/eye protection only after vapors have been cleared from the area. Ensure that eye flushing systems and safety showers are located close to the working place. Use personal protective equipment as required.				
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice.				

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES



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	Appear	ance	:	Emulsion	
	Color		:	off-white	
	Odor		:	mild	
	Odor TI	nreshold	:	not determined	
	рН		:	Not applicable	
	Melting	point/range	:	-22 °F / -30 °C	
	Boiling	point/boiling range	:	545.9 °F / 285.5	°C
	Flash p	oint	:	334 °F / 168 °C	
				Method: Seta clo	sed cup
	Evapora	ation rate	:	not determined	
	Flamma	ability (solid, gas)	:	Not applicable	
	Self-ign	ition	:	601 °F / 316 °C Method: ASTM E	659
		explosion limit / Upper bility limit	:	not determined	
		explosion limit / Lower bility limit	:	not determined	
	Vapor p	pressure	:	< 0.24 Pa (68 °F	/ 20 °C)
	Relative	e vapor density	:	not determined	
	Relative	e density	:	1.082	
	Solubili Wat	ty(ies) er solubility	:	34 - 143 g/l (77 ⁻	°F / 25 °C)
	Partitio octanol	n coefficient: n- /water	:	No data available	
	Autoigr	ition temperature	:	not determined	
	Decom	position temperature	:	not determined	
	Explosi	ve properties	:	Not classified	
	Oxidizii	ng properties	:	Not classified	



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	Surface tension		:	Not applicable		
SEC	TION 1	0. STABILITY AND RE	EAC	ΓΙVITY		
	Reactivity		:	None reasonably foreseeable.		
	Chemical stability		:	Stable under normal conditions.		
	Possibility of hazardous reac- tions		:	Stable		
	Conditions to avoid		:	None known.		
	Incomp	atible materials	:	Strong oxidizing	agents	
	Hazardous decomposition products		:	Carbon dioxide (Carbon monoxide		

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Acute oral toxicity	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available

Skin corrosion/irritation

Not classified based on available information.

Product:

Remarks	:	No data available
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Components:

1,4-cyclohexanedimethanol:

Species	:	Rabbit
Exposure time	:	24 h
Result	:	none

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Remarks

: No data available



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Components:

1,4-cyclohexanedimetha	nol:
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Species	:	Rabbit
Result	:	Corrosive
Exposure time	:	24 h

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Product:

Remarks

: No data available

Components:

1,4-cyclohexanedimethanol:

Test Type	:	OECD 406: Guinea pig sensitization
Species	:	Guinea pig
Result	:	Did not cause sensitization on laboratory animals.

Germ cell mutagenicity

Not classified based on available information.

Components:

1,4-cyclohexanedimethanol:

Genotoxicity in vitro :		Test Type: Mutagenicity - Mammalian Metabolic activation: +/- activation Method: In vitro Mammalian Cell Gene Mutation Test Result: negative
		Test Type: Ames test Result: negative Remarks: National Toxicology Program Study
Genotoxicity in vivo	:	Species: Rat Application Route: oral: gavage Method: Mammalian Bone Marrow Chromosome Aberration Test Result: negative

Carcinogenicity

Not classified based on available information.

Product:

Remarks

: This information is not available.

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is



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		identified as pr	roba	able, possible or co	nfirmed human carcinogen by IARC.				
OSHA		No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.							
NTP		No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.							
Repro	ductive t	oxicity							
Not cla	assified ba	ased on availab	ble	information.					
<u>Produ</u> Effects	<u>ct:</u> s on fertilit	ÿ	:	Remarks: No data	available				
<u>Comp</u>	<u>onents:</u>								
1,4-cy	clohexar	edimethanol:							
Effects	Effects on fertility		:	Species: Rat, male Application Route: General Toxicity F Method: OECD Te	Ingestion Parent: NOAEL: 479 mg/kg body weight				
				Species: Rat, male Application Route: General Toxicity F Method: OECD Te	Ingestion Parent: NOAEL: 700 mg/kg body weight				
	-single e x assified ba	xposure ased on availab	ole	information.					
Produ									
Remar			:	No data available					
Comp	<u>onents:</u>								
1,4-cy	clohexar	edimethanol:							
Asses	sment		:	Not classified					
	STOT-repeated exposur		ole	information.					
<u>Produ</u> Remar			:	No data available					
Comp	<u>onents:</u>								
1,4-cy Asses		edimethanol:	:	Not classified					



Repeated dose toxicity

Components:

1,4-cyclohexanedimethanol:

Species	:	Rat, male 479 mg/kg
Application Route	:	in drinking water
Exposure time	:	90 d
	·	00 4
Species	:	Rat, female
Species	:	Rat, female 754 mg/kg
Species Application Route Exposure time	:	,

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Routes of exposure

Product: Inhalation : Remarks: None known. Skin contact : Remarks: Molten material will produce thermal burns. Eye contact Remarks: Causes serious eye damage. : Molten material will produce thermal burns. Ingestion Remarks: None known. : **Further information** Product: Remarks None known. :

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

1,4-cyclohexanedimethanol:				
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		



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	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): >=	125.3 mg/l
I	Persiste	ence and degradabili	ity		
<u>(</u>	Compo	nents:			
	1,4-cyc	lohexanedimethanol			
I	Biodegr	adability	:	Result: Readily bid Biodegradation: 9 Exposure time: 28 Method: Ready Bi	99.2 %
	Biocher mand (B	nical Oxygen De- 3OD)	:	BOD-5: 25 mg/g	
				BOD-20: 1,400 mg/g	
	Chemic (COD)	al Oxygen Demand	:	2,400 mg/g	
I	Bioacc	umulative potential			
9	<u>Compo</u>	nents:			
		lohexanedimethanol	•		
I	Bioaccu	umulation	:	Bioconcentration f Method: estimated	
	Partitior octanol/	n coefficient: n- /water	:	log Pow: 0.36 - 1.	47 (77 °F / 25 °C)
I	Mobilit	y in soil			
9	<u>Compo</u>	nents:			
I	Distribu	lohexanedimethanol: tion among environ- compartments		log Koc: 0.499 - 1 Method: QSAR m	
	Other a	dverse effects			
<u>(</u>	<u>Compo</u>	nents:			
		lohexanedimethanol: of PBT and vPvB	:	Not fulfilling vPvB	(very persistent, very bioaccumulative) crite-



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asses	ssment	ria.					
SECTION	13. DISPOSAL CON	SIDERATIONS					
Dispo	osal methods						
Wast	e from residues	: Dispose of in a	ccordance with local regulations.				
SECTION	14. TRANSPORT IN	FORMATION					
oconion							
Inter	national Regulations	;					
IATA Not re	-DGR egulated as a dangero	us good					
	-Code egulated as a dangero	us good					
	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable for product as supplied.						
Dom	estic regulation						
49 CI Not re	FR egulated as a dangero	us good					
-	Special precautions for user						
Not a	pplicable						
SECTION	15. REGULATORY I	NFORMATION					
CERC	CLA Reportable Qua	ntity					

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		
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.		
The ingredients of this product are reported in the following inventories:				
The ingredients of this proc	luct	are reported in the following inventories:		
TCSI		On the inventory, or in compliance with the inventory		
•				



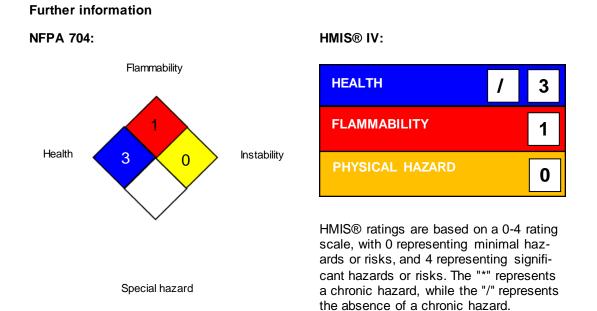
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DSL		:	All components of	f this product are on the Canadian DSL
ENCS		:	On the inventory,	or in compliance with the inventory
ISHL		:	On the inventory,	or in compliance with the inventory
KECI		:	On the inventory,	or in compliance with the inventory
PICCS	;	:	On the inventory,	or in compliance with the inventory
IECSC	;	:	On the inventory,	or in compliance with the inventory
TECI		:	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



Full text of other abbreviations

AllC - 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;



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ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC -International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Revision Date

07/23/2021

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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