

Version 2.2 PRD	Revision Date: 01/14/2020	SDS Number: 15000000073 SDSUS / Z8/ 0001		Date of last issue: 03/15/2017 Date of first issue: 09/06/2016		
SECTION	1. IDENTIFICATION					
OLOHION						
Product na	me	:	Eastman(TM) Chl	orinated Polyolefin 164-1 (100% Solids)		
Produc	ct code	:	12075-0F, S12075F3, S12075F7			
Manufacturer or supplier's details						
Company r	name of supplier	:	Eastman Chemica	al Company		
Addres	SS	:	200 South Wilcox Kingsport TN 376			
Teleph	one	:	(423) 229-2000			
Emerg	ency telephone	:	CHEMTREC: +1-	-800-424-9300, +1-703-527-3887 CCN7321		
Recommended use of the chemical and restrictions on use						
Recommen	ded use	:	Adhesion promote	er		
Restric	ctions on use	:	None known.			

### **SECTION 2. HAZARDS IDENTIFICATION**

GHS classification in accordance with 29 CFR 1910.1200 Combustible dust

GHS label elements		
Signal Word	:	Warning
Hazard Statements	:	If small particles are generated during further processing, handling or by other means, may form combustible dust concentrations in air.
Precautionary Statements	:	Disposal:
		P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Components

Chemical name CAS-No.	Concentration (% w/w)
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modified chlorinated polyolefin	not assigned	> 92
epoxidized oil	61789-01-3	< 4
chlorobenzene	108-90-7	< 2

### SECTION 4. FIRST AID MEASURES

lf inhaled	:	Move to fresh air. Treat symptomatically. If symptoms persist, call a physician.
In case of skin contact	:	Wash off with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
If swallowed	:	Seek medical advice.
Most important symptoms and effects, both acute and delayed	:	Causes mild skin irritation.
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	, protective	equipment	and emergency	procedures
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: Use pers Local au		Use personal protective equipment. Local authorities should be advised if significant spillages cannot be contained.
Environmental precautions	:	Avoid release to the environment.



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	ds and materials for nment and cleaning up	container for disp Contain spillage, material, (e.g. sar and transfer to a	uum up spillage and collect in suitable osal. soak up with non-combustible absorbent nd, earth, diatomaceous earth, vermiculite) container for disposal according to local / ns (see section 13).

## SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	None known.
Advice on safe handling	:	Avoid breathing dust. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wash thoroughly after handling.
Conditions for safe storage	:	Keep tightly closed.

### 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
chlorobenzene	108-90-7	TWA	10 ppm	ACGIH
		TWA	75 ppm 350 mg/m3	OSHA Z-1
		TWA	75 ppm 350 mg/m3	OSHA P0

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	:	Safety glasses
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



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				he working place. tective equipment as required.
Hygie	ene measures	:	Handle in accord practice.	ance with good industrial hygiene and safety
SECTION	9. PHYSICAL AND CH	EMIC	CAL PROPERTIE	S
Appearanc	ce	:	solid	
Color		:	tan	
Odor		:	odorless	
Odor	Threshold	:	not determined	
pН		:	not determined	
Softe	ning point	:	190 °F / 88 °C	
Boilin	ng point/boiling range	:	not determined	
Flash	n point	:	not applicable, o	combustible solid
Evapo	oration rate	:	Not applicable	
	r explosion limit / Upper nability limit	:	not determined	
	r explosion limit / Lower nability limit	:	not determined	
Vapo	r pressure	:	Not applicable	
Relat	ive vapor density	:	not determined	
Relat	ive density	:	1.016 (77 °F / 2	5 °C)
	bility(ies) /ater solubility	:	negligible	
	ion coefficient: n- ol/water	:	No data available	e
Autoi	gnition temperature	:	not determined	
Deco	mposition temperature	:	No exotherm to	400°C



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Visco Viscosity,			

	:	not determined
Viscosity, kinematic	:	Not applicable
Explosive properties	:	No data available
Oxidizing properties	:	No data available

## SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	None reasonably foreseeable.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reac- tions	:	Stable None known.
Conditions to avoid	:	None known.
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

	:	Remarks: No data available
Acute inhalation toxicity	:	Remarks: No data available
Acute dermal toxicity	:	Remarks: No data available
<u>Components:</u> chlorobenzene: Acute oral toxicity	:	LD50 Oral (Rat): 2,262 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 29.7 mg/l Exposure time: 4 h

## SAFETY DATA SHEET



## Eastman(TM) Chlorinated Polyolefin 164-1 (100% Solids)

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Acu	te dermal toxicity	: LD50 Dermal	(Guinea pig): > 20,000 mg/kg
Ski	n corrosion/irritation		
	classified based on avai	lable information.	
Product	=		
	cies	: Guinea pig	
Exp Res	osure time ult	: 24 h : slight	
Cor	nononte:		
	nponents:		
chlorob	enzene: cies	: Guinoa nia	
	osure time	: Guinea pig : 24 h	
Res		: slight	
Sor	ious eye damage/eye i	rritation	
	classified based on avai		
Product			
	<u>.</u> cies	: Rabbit	
Res		: slight	
Met		: unwashed ey	es
Spe	cies	: Rabbit	
Res		: slight	
Met	hod	: washed eyes	
Ren	narks	: No data availa	able
<u>Cor</u>	nponents:		
chlorob	enzene:		
	cies	: Rabbit	
Res	ult	: slight	
Res	piratory or skin sensiti	zation	
	nsitization classified based on avai	lable information.	
	piratory sensitization classified based on avai	lable information.	
	duct:	<b>•</b> • • • •	
	t Type	: Skin Sensitiza	ation
•	cies	: Guinea pig	
	essment	: Not classified	
Res	uit	: non-sensitizin	9
C	nnonontoi		

## <u>Components:</u>

chlorobenzene: Test Type

: Skin Sensitization



Versic 2.2 PRD	on	Revision Date: 01/14/2020	15	DS Number: 0000000073 SUS / Z8/ 0001	Date of last issue: 03/15/2017 Date of first issue: 09/06/2016
	Species Result		:	Guinea pig non-sensitizing	
G	Germ c	ell mutagenicity			
Ν	Not clas	sified based on availa	able	information.	
	<u>Compo</u>				
	<b>obenz</b> e toxicity	ene: in vitro	:	Metabolic activati	Reverse Mutation Assay
				Metabolic activati	Mammalian Chromosome Aberration Test
				Metabolic activati Method: Genetic	Toxicology: In Vitro Sister Chromatid Ex- Mammalian Cells
G	Genoto	kicity in vivo	:	Species: Drosoph Method: Genetic Test in Drosophila Result: negative Remarks: Publish	Toxicology: Sex-Linked Recessive Lethal a melanogaster
C	Carcino	ogenicity			
Ν	Not clas	sified based on availa	able	information.	
<u>Produ</u> ה	u <b>ct:</b> Remark	S	:	This information i	is not available.
L	ARC				t at levels greater than or equal to 0.1% is onfirmed human carcinogen by IARC.
C	OSHA			this product prese regulated carcinog	nt at levels greater than or equal to 0.1% is gens.
Ν	NTP				t at levels greater than or equal to 0.1% is carcinogen by NTP.
	-	uctive toxicity	blo	information	

Not classified based on available information.

## SAFETY DATA SHEET



## Eastman(TM) Chlorinated Polyolefin 164-1 (100% Solids)

Produce:       :       Remarks: No data available         STOT-single exposure       .       Remarks: No data available         Not classified based on available information.       .         Produce:       .       No data available         Remarks       .       No data available         Components:       .       .         Routes of exposure       .       No data available         STOT-repeated exposure       .       Narcotic effects         Route of oxpoanes       .       Narcotic effects         Route of exposure       .       No data available         Product:       .       No data available         Route of exposure       .       No data available         Components:       .       No data available         Remarks       .       No data available         Components:       .       .         Routes of exposure       .       .         Routes of exposure       .       .         Species Remarks       .       .         Species Remarks       .       .         Method       .       .         Method       .       .         Method       .       .	Version 2.2 PRD	Revision Date: 01/14/2020	SDS Number:         Date of last issue: 03/15/2017           150000000073         Date of first issue: 09/06/2016           SDSUS / Z8 / 0001         Date of first issue: 09/06/2016
Not classified based on available information.         Product:         Remarks       :         Remarks       :         Routes of exposure       :         Not classified based on available       information.         Product:       .         Remarks       :         Not classified based on available       information.         Product:       .         Remarks       :         Routes of exposure       :         Routes of exposure       :         Routes of exposure       :         Repeated dose toxicity       .         Species       :         Species       :         Routes of exposure       :         Repeated dose toxicity       .         Species       :         NoAcL       :         Species       :         Remarks       :         Species       :         Remarks       :         Vublished study         Remarks <td:< td="">       :</td:<>			: Remarks: No data available
Not classified based on available information.         Product:         Remarks       :         Remarks       :         Routes of exposure       :         Not classified based on available       information.         Product:       .         Remarks       :         Not classified based on available       information.         Product:       .         Remarks       :         Routes of exposure       :         Routes of exposure       :         Routes of exposure       :         Repeated dose toxicity       .         Species       :         Species       :         Species       :         NoAcL       :         Species       :         Remarks       :         Published study         Remarks       :         Remarks       :         Species       :         Rethod       :         Species       :         Remarks	STC	T-single exposure	
Remarks       :       No data available         Components:			ble information.
Components:       Inhalation         Routes of exposure       inhalation         Target Organs       inhalation         Target Organs       information         STOT-repeated exposure       information         Product:       Information         Remarks       information         Product:       information         Remarks       information         Product:       information         Remarks       information         Routes of exposure       information         Repeated dose toxicity       information         Species       information         Species       information         Remarks       information         Method       information         Species       information         Remarks       information         Remarks       information         Remarks       information         Species       information         Remarks       information         Remarks       information	Pro	duct:	
chlorobenzene:       Narcotic effects         STOT-repeated exposure       Narcotic effects         STOT-repeated exposure       Narcotic effects         Not classified based on available information.       Product:         Remarks       information.         Components:       information.         chlorobenzene:       information.         Routes of exposure       information.         Repeated dose toxicity       information.         Components:       information.         chlorobenzene:       information.         Routes of exposure       information.         Repeated dose toxicity       information.         Components:       information.         chlorobenzene:       information.         Species       information.         Species       information.         MoAEL       information.         MoAEL       information.         Species       information.         Remarks       information.         Species       information.         information       information.         Species       information.         information       information.         information       information.         information.	Rem	arks	: No data available
Routes of exposure       : Inhalation         Target Organs       : Narcotic effects         STOT-repeated exposure       .         Not classified based on available information.       .         Product:       .         Remarks       : No data available         Components:       .         chlorobenzene:       .         Routes of exposure       : Oral         Assessment       : Based on available data, the classification criteria are not met.         Repeated dose toxicity         Components:       .         chlorobenzene:       .         Species       : Rat, Male and Female         NOAEL       : 120 mg/kg         Method       : OECD Test No. 451: Carcinogenicity Studies         Remarks       : Published study         Species       : Rat, Male and Female		-	
Target Organs       : Narcotic effects         STOT-repeated exposure       Not classified based on available information.         Product:       Remarks       : No data available         Remarks       : No data available         Components:       : No data available         chlorobenzene:       : Oral         Routes of exposure       : Oral         Assessment       : Based on available data, the classification criteria are not met.         Repeated dose toxicity       :         Components:       : Based on available data, the classification criteria are not met.         Repeated dose toxicity       :         Components:       : Doral (Components)         chlorobenzene:       : Doral (Components)         Species       : Rat, Male and Female         NOAEL       : 120 mg/kg         Method       : OECD Test No. 451: Carcinogenicity Studies         Remarks       : Published study         Species       : Rat, Male and Female         :: 235 mg/m³       : 235 mg/m³         Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity         :: Study       : Published study         : Remarks       : Published study         : Study       : Published study			
STOT-repeated exposure         Not classified based on available information.         Product:         Remarks       :         Remarks       :         No data available         Components:         chlorobenzene:         Routes of exposure       :         Assessment       :         Based on available data, the classification criteria are not met.         Repeated dose toxicity         Components:         chlorobenzene:         Species       :         Rat, Male and Female         NOAEL       :         NoAEL       :         Method       :         OECD Test No. 451: Carcinogenicity Studies         Remarks       :         Published study         Species       :         Rethod       :         235 mg/m <sup>3</sup> Method       :         OECD Test No. 416: Two-Generation Reproduction Toxicity         Study         Remarks       :         Yudy         Remarks       :         Published study         Aspiration toxicity			
Not classified based on available information.         Product:         Remarks       :         Remarks       :         Components:         Chlorobenzene:         Routes of exposure       :         Routes of exposure       :         Assessment       :         Based on available data, the classification criteria are not met.         Repeated dose toxicity       :         Components:       :         Chlorobenzene:       :         Species       :         Remarks       :         NOAEL       :         NOAEL       :         NOAEL       :         Published study         Species       :         Remarks       :         Published study         Species       :         Remarks       :         Published study         Remarks       :         Remarks       :         Published study         Remarks       :         Remarks       :         Remarks       :         Published study         Remarks       :         Remarks       :	- 0	<u><u></u></u>	
Product: Remarks:No data availableComponents: Routes of exposure Assessment:Oral Based on available data, the classification criteria are not met.Repeated dose toxicity::Components: Components::Components: Components::Species:NOAEL:NOAEL:NOAEL:Species:Remarks:Species:Remarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyStudyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Remarks:Pu			
Remarks:No data availableComponents: chlorobenzene: Routes of exposure Assessment:Oral Based on available data, the classification criteria are not met.Repeated dose toxicity Components: Chlorobenzene: Species:Rat, Male and Female 120 mg/kg OECD Test No. 451: Carcinogenicity Studies RemarksRepeated:Rat, Male and Female 235 mg/m3Method:OECD Test No. 451: Carcinogenicity Studies 235 mg/m3Method:Published studySpecies:Rat, Male and Female 235 mg/m3Method:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published studyRemarks:Published study			ble information.
Components:			Ne dete successed
chlorobenzene:       Routes of exposure       : Oral         Assessment       : Based on available data, the classification criteria are not met.         Repeated dose toxicity         Components:       Components:         chlorobenzene:       : Rat, Male and Female         NOAEL       : 120 mg/kg         Method       : OECD Test No. 451: Carcinogenicity Studies         Remarks       : Published study         Species       : Rat, Male and Female         : 235 mg/m³       : OECD Test No. 416: Two-Generation Reproduction Toxicity Study         Remarks       : Published study         Species       : Rat, Male and Female         : 235 mg/m³       : DECD Test No. 416: Two-Generation Reproduction Toxicity Study         Remarks       : Published study         Study       : Published study	Rem	arks	: No data available
Routes of exposure       : Oral         Assessment       : Based on available data, the classification criteria are not met.         Repeated dose toxicity	<u>Com</u>	<u>nponents:</u>	
Assessment       : Based on available data, the classification criteria are not met.         Repeated dose toxicity			
Repeated dose toxicity         Components:         chlorobenzene:         Species       : Rat, Male and Female         NOAEL       : 120 mg/kg         Method       : OECD Test No. 451: Carcinogenicity Studies         Remarks       : Published study         Species       : Rat, Male and Female         235 mg/m³         Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity Study         Remarks       : Published study         Aspiration toxicity       : Published study			
Components:         chlorobenzene:         Species       : Rat, Male and Female         NOAEL       : 120 mg/kg         Method       : OECD Test No. 451: Carcinogenicity Studies         Remarks       : Published study         Species       : Rat, Male and Female         235 mg/m³         Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity         Study         Remarks       : Published study	A33	essment	
chlorobenzene:       Species       : Rat, Male and Female         NOAEL       : 120 mg/kg         Method       : OECD Test No. 451: Carcinogenicity Studies         Remarks       : Published study         Species       : Rat, Male and Female         : 235 mg/m³         Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity         Study         Remarks       : Published study	Rep	eated dose toxicity	
Species       :       Rat, Male and Female         NOAEL       :       120 mg/kg         Method       :       OECD Test No. 451: Carcinogenicity Studies         Remarks       :       Published study         Species       :       Rat, Male and Female         :       235 mg/m³         Method       :       OECD Test No. 416: Two-Generation Reproduction Toxicity         Study       Remarks       :       Published study	<u>Con</u>	<u>nponents:</u>	
NOAEL       : 120 mg/kg         Method       : OECD Test No. 451: Carcinogenicity Studies         Remarks       : Published study         Species       : Rat, Male and Female         : 235 mg/m³         Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity         Study         Remarks       : Published study	chlorobe	enzene:	
Method       : OECD Test No. 451: Carcinogenicity Studies         Remarks       : Published study         Species       : Rat, Male and Female         : 235 mg/m³         Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity         Study         Remarks       : Published study			
Remarks       : Published study         Species       : Rat, Male and Female         : 235 mg/m³         Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity         Study         Remarks       : Published study			
Species       : Rat, Male and Female         : 235 mg/m³         Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity         Remarks       : Published study         Aspiration toxicity			
<ul> <li>i 235 mg/m<sup>3</sup></li> <li>Method</li> <li>i OECD Test No. 416: Two-Generation Reproduction Toxicity Study</li> <li>Remarks</li> <li>i Published study</li> </ul>			
Method       : OECD Test No. 416: Two-Generation Reproduction Toxicity Study         Remarks       : Published study         Aspiration toxicity	Spe	CIES	
Remarks     : Published study       Aspiration toxicity	Meth	nod	: OECD Test No. 416: Two-Generation Reproduction Toxicity
	Rem	arks	
	Asp	iration toxicity	
	-	-	ble information.

Product:

No aspiration toxicity classification

Components:

chlorobenzene:



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May be harmful if swallowed and enters airways.

### Information on likely routes of exposure

Inhalation	:	Remarks: None known.
Skin contact	:	Remarks: The molten product can cause serious burns.
Eye contact	:	Remarks: The molten product can cause serious burns.
Ingestion	:	Remarks: None known.

## SECTION 12. ECOLOGICAL INFORMATION

### Ecotoxicity

### Components:

### chlorobenzene:

Toxicity to fish

	:	LC50 (goldfish): 73.03 mg/l Exposure time: 96 h
Toxicity to daphnia a aquatic invertebrates		EC50 (daphnid): 4.3 mg/l Exposure time: 48 h
Toxicity to fish (Chro icity)	nic tox- :	NOEC (Danio rerio (zebra fish)): 4.8 mg/l Exposure time: 28 d Remarks: Published study
Toxicity to daphnia a aquatic invertebrates ic toxicity)		NOEC (Daphnia magna (Water flea)): 0.32 mg/l Exposure time: 16 d Remarks: Published study
Persistence and de	gradability	
Persistence and de <u>Components:</u>	gradability	
_		BOD-5: 30 mg/g
<u>Components:</u> chlorobenzene: Biochemical Oxygen	De- :	30 mg/g
<u>Components:</u> chlorobenzene: Biochemical Oxygen mand (BOD) Chemical Oxygen De	De- :	30 mg/g



### **Bioaccumulative potential**

No data available

#### Mobility in soil

### Components:

### chlorobenzene:

Distribution among environ- : log Koc: 2.4 mental compartments

#### Other adverse effects

No data available

### SECTION 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues

: Dispose of in accordance with local regulations.

### SECTION 14. TRANSPORT INFORMATION

### **International Regulations**

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

### SECTION 15. REGULATORY INFORMATION

#### EPCRA - Emergency Planning and Community Right-to-Know

#### **CERCLA Reportable Quantity**

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
chlorobenzene	108-90-7	100	*

\*: Calculated RQ exceeds reasonably attainable upper limit.

#### 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

Components CAS-No.	Component TPQ (lbs)
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SARA	311/312 Hazards	:	Fire Hazard	
SARA	313	:	: The following components are subject to reporting levels established by SARA Title III, Section 313:	
			chlorobenzene	108-90-7

### 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:

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
NZIOC	:	Not listed
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** 

Health



1

1

0

## Eastman(TM) Chlorinated Polyolefin 164-1 (100% Solids)

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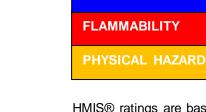
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 NFPA 704:
 HMIS® IV:

 Flammability
 1

Instability

0



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

Special hazard

ACGIH OSHA P0		USA. ACGIH Threshold Limit Values (TLV) USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
OSHA P0/TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

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 - (Quanti-



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tative) 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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The information provided in this Material 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.

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