

**Eastman(TM) Chlorinated Polyolefin 343-1  
(50% Solids in Xylene)**

Version	Revision Date:	SDS Number:	Date of last issue: 03/30/2022
2.6	04/07/2022	150000000049	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

**SECTION 1. IDENTIFICATION**

Product name : Eastman(TM) Chlorinated Polyolefin 343-1 (50% Solids in Xylene)

Product code : 06363-00, P0636305, S0636303, S0636304, S0636307

**Manufacturer or supplier's details**

Company name of supplier : Eastman Chemical Company

Address : 200 South Wilcox Drive  
Kingsport TN 37660-5280

Telephone : (423) 229-2000

Emergency telephone : CHEMTREC: +1-800-424-9300, +1-703-527-3887 CCN7321

**Recommended use of the chemical and restrictions on use**

Recommended use : Adhesion promoter

Restrictions on use : None known.

**SECTION 2. HAZARDS IDENTIFICATION****GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Flammable liquids : Category 3

Skin irritation : Category 2

Eye irritation : Category 2A

Specific target organ toxicity : Category 3 (Respiratory system)  
- single exposure

Specific target organ toxicity : Category 2  
- repeated exposure

**GHS label elements**

Hazard pictograms :



Signal Word : Warning

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**Hazard Statements** : H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements** : **Prevention:**  
P210 Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.  
P233 Keep container tightly closed.  
P240 Ground/bond container and receiving equipment.  
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.  
P242 Use only non-sparking tools.  
P243 Take precautionary measures against static discharge.  
P260 Do not breathe mist or vapors.  
P264 Wash skin thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/ attention if you feel unwell.  
P332 + P313 If skin irritation occurs: Get medical advice/ attention.  
P337 + P313 If eye irritation persists: Get medical advice/ attention.  
P362 Take off contaminated clothing and wash before reuse.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

**Storage:**

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P403 + P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Components**

Chemical name	CAS-No.	Concentration (% w/w)
xylenes	1330-20-7	>= 30 - < 50
ethylbenzene	100-41-4	>= 10 - < 20
chlorobenzene	108-90-7	>= 1 - < 5

Eastman is committed to the safety, health and environment of our employees, our customers, and the communities we operate within. As part of this commitment, Eastman's Safety Data Sheets (SDS) are prepared in accordance with all applicable national and local regulations. The compositions of our documents reflect these requirements which include, but are not limited to, requirements under the Globally Harmonized System of Classification and Labeling (GHS). These compositions commonly involve the use of ranges versus specific analytical values. If you require a composition that is more specific, please refer to the Certificate of Analysis, sales specification, or contact your Customer Service Representative.

**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 immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before re-use. Get medical attention. Thoroughly clean shoes before reuse.
In case of eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.
If swallowed	: Call a physician or poison control center immediately. Do NOT induce vomiting. If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious person. Hold person's head low, to prevent aspiration.
Most important symptoms and effects, both acute and delayed	: Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure.
Notes to physician	: Treat symptomatically.

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**SECTION 5. FIRE-FIGHTING MEASURES**

- Suitable extinguishing media : Carbon dioxide (CO2)  
Dry chemical  
Water spray
- Specific hazards during fire fighting : Water may be ineffective.  
The product will float on water and can be reignited on surface water.
- Hazardous combustion products : No hazardous combustion products are known
- Further information : Flammable liquid and vapor.
- 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 : Wear appropriate personal protective equipment.  
Local authorities should be advised if significant spillages cannot be contained.
- Environmental precautions : Avoid release to the environment.
- Methods and materials for containment and cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
After cleaning, flush away traces with water.  
Eliminate all ignition sources if safe to do so.
- 

**SECTION 7. HANDLING AND STORAGE**

- Advice on protection against fire and explosion : None known.
- Advice on safe handling : Avoid inhalation of vapor or mist.  
Do not get on skin or clothing.  
Do not get in eyes.  
Avoid contact with skin, eyes and clothing.  
Do not taste or swallow.  
Ensure adequate ventilation.  
Wash thoroughly after handling.  
Keep away from fire (No Smoking).  
Keep away from fire, sparks and heated surfaces.  
Do not use sparking tools.
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Conditions for safe storage : Keep container closed when not in use.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
xylenes	1330-20-7	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA Z-1
		STEL	150 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm	ACGIH
		STEL	150 ppm	ACGIH
		STEL	150 ppm 655 mg/m3	OSHA P0
		TWA	100 ppm 435 mg/m3	OSHA P0
		TWA	20 ppm	ACGIH
		TWA	100 ppm 435 mg/m3	NIOSH REL
		ST	125 ppm 545 mg/m3	NIOSH REL
ethylbenzene	100-41-4	TWA	100 ppm 435 mg/m3	OSHA Z-1
		TWA	100 ppm 435 mg/m3	OSHA P0
		STEL	125 ppm 545 mg/m3	OSHA P0
		TWA	10 ppm	ACGIH
chlorobenzene	108-90-7	TWA	75 ppm 350 mg/m3	OSHA Z-1
		TWA	75 ppm 350 mg/m3	OSHA P0
		TWA	75 ppm 350 mg/m3	OSHA P0

Engineering measures : Ensure adequate ventilation.

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**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**

Appearance : viscous liquid

Color : amber

Odor : aromatic

Odor Threshold : not determined

pH : not determined

Melting point/range : not determined

Boiling point/boiling range : 280 - 284 °F / 138 - 140 °C

Flash point : 82 °F / 28 °C

Method: Tag closed cup

Evaporation rate : not determined

Self-ignition : 860 °F / 460 °C  
Method: ASTM D2155

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Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Vapor pressure	:	not determined
Relative vapor density	:	not determined
Relative density	:	0.935 (77 °F / 25 °C)
Solubility(ies)		
Water solubility	:	negligible
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	not determined
Decomposition temperature	:	Method: DSC No exotherm to 450°C
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	not determined
Explosive properties	:	No data available
Oxidizing properties	:	No data available

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**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	Stable
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Hazardous decomposition products formed under fire conditions.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Strong oxidizing agents
Hazardous decomposition products	:	Carbon dioxide (CO <sub>2</sub> ) Carbon monoxide

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**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

**Components:****xylenes:**

Acute oral toxicity : LD50 Oral (Rat, male): 3,523 mg/kg  
LD50 Oral (Rat, female): > 4,000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 4,200 mg/kg

**ethylbenzene:**

Acute oral toxicity : LD50 Oral (Rat): 3,500 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 15,400 mg/kg

**chlorobenzene:**

Acute oral toxicity : LD50 Oral (Rat): 7,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 500 mg/l  
Exposure time: 4 h

Acute dermal toxicity : LD50 Dermal (Guinea pig): > 20,000 mg/kg

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Remarks : Causes skin irritation.

**Components:****xylenes:**

Species : Rabbit  
Exposure time : 24 h  
Result : slight

**ethylbenzene:**

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Species : Rabbit  
Exposure time : 24 h  
Result : slight

**chlorobenzene:**

Species : Guinea pig  
Exposure time : 24 h  
Result : slight to moderate

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

Remarks : Causes eye irritation.

**Components:****xylenes:**

Species : Rabbit  
Result : slight to moderate  
Exposure time : 24 h

**ethylbenzene:**

Species : Rabbit  
Result : moderate to strong

**chlorobenzene:**

Species : Rabbit  
Result : slight

**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:****xylenes:**

Test Type : OECD 429: LLNA  
Species : Mouse  
Result : non-sensitizing

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**ethylbenzene:**

Test Type : Skin Sensitization  
Result : non-sensitizing

**chlorobenzene:**

Test Type : Skin Sensitization  
Species : Guinea pig  
Result : non-sensitizing

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****xylenes:**

Genotoxicity in vitro : Test Type: Salmonella typhimurium assay (Ames test)  
Metabolic activation: +/- activation  
Result: negative

Genotoxicity in vivo : Species: Rat  
Application Route: intraperitoneal injection  
Method: Genetic Toxicology: Rodent Dominant Lethal Test  
Result: negative

**chlorobenzene:**

Genotoxicity in vitro : Test Type: Mutagenicity - Bacterial  
Metabolic activation: +/- activation  
Method: Bacterial Reverse Mutation Assay  
Result: negative  
Remarks: Published study

Test Type: Mutagenicity - Mammalian  
Metabolic activation: +/- activation  
Method: In vitro Mammalian Chromosome Aberration Test  
Result: negative  
Remarks: Published study

Test Type: Mutagenicity - Mammalian  
Metabolic activation: +/- activation  
Method: Genetic Toxicology: In Vitro Sister Chromatid Exchange Assay in Mammalian Cells  
Result: negative  
Remarks: Published study

Genotoxicity in vivo : Species: Drosophila melanogaster  
Method: Genetic Toxicology: Sex-Linked Recessive Lethal Test in Drosophila melanogaster  
Result: negative  
Remarks: Published study

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**Carcinogenicity**

Not classified based on available information.

**Product:**

Remarks : This information is not available.

**IARC**

Group 2B: Possibly carcinogenic to humans  
ethylbenzene

100-41-4

**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.

**Reproductive toxicity**

Not classified based on available information.

**Product:**

Effects on fertility : Remarks: No data available

**STOT-single exposure**

May cause respiratory irritation.

**Product:**

Remarks : No data available

**Components:****xylene:**

Assessment : May cause respiratory irritation.

**ethylbenzene:**

Routes of exposure	: Inhalation
Target Organs	: Narcotic effects
Assessment	: May cause drowsiness or dizziness.

**chlorobenzene:**

Routes of exposure	: Inhalation
Target Organs	: Narcotic effects

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure.

**Product:**

Remarks : No data available

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**Components:****chlorobenzene:**

Routes of exposure : Oral  
Assessment : Based on available data, the classification criteria are not met.

**Repeated dose toxicity****Components:****xylenes:**

Species : Rat, male and female  
NOAEL : 250 mg/kg  
Application Route : Oral Study

Species : Rat, male  
: 3515 mg/m<sup>3</sup>  
Application Route : Inhalation

**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/m<sup>3</sup>  
Method : OECD Test No. 416: Two-Generation Reproduction Toxicity Study  
Remarks : Published study

**Aspiration toxicity**

Not classified based on available information.

**Product:**

No aspiration toxicity classification

**Components:****xylenes:**

May be fatal if swallowed and enters airways.

**ethylbenzene:**

May be fatal if swallowed and enters airways.

**chlorobenzene:**

May be harmful if swallowed and enters airways.

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**Experience with human exposure****Product:**

Inhalation	:	Remarks: May cause respiratory irritation.
Skin contact	:	Remarks: Causes skin irritation.
Eye contact	:	Remarks: Causes serious eye irritation.
Ingestion	:	Remarks: None known.

**Further information****Product:**

Remarks	:	None known.
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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****ethylbenzene:**

Toxicity to fish	:	LC50 (Cyprinodon variegatus (sheepshead minnow)): 275 mg/l Exposure time: 96 h  LC50 (Pimephales promelas (fathead minnow)): 42.3 - 48.5 mg/l Exposure time: 96 h  LC50 (Poecilia reticulata (guppy)): 97.1 mg/l Exposure time: 96 h
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**chlorobenzene:**

Toxicity to fish	:	LC50 (goldfish): 73.03 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (daphnid): 4.3 mg/l Exposure time: 48 h
Toxicity to fish (Chronic toxicity)	:	NOEC (Danio rerio (zebra fish)): 4.8 mg/l Exposure time: 28 d Remarks: Published study
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 0.32 mg/l Exposure time: 16 d Remarks: Published study

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**Persistence and degradability****Components:****xlenes:**

Biodegradability : Result: Readily biodegradable.

**ethylbenzene:**

Biodegradability : Result: Readily biodegradable.

**chlorobenzene:**Biochemical Oxygen Demand (BOD) : BOD-5:  
30 mg/g

Chemical Oxygen Demand (COD) : 410 mg/g

BOD/COD : BOD/COD: 7.32 %

ThOD : 2,060 mg/g

**Bioaccumulative potential****Components:****xlenes:**Partition coefficient: n-octanol/water : Pow: 1,320 - 1,580  
log Pow: 3.12 - 3.20**ethylbenzene:**

Partition coefficient: n-octanol/water : log Pow: 3.15

**Mobility in soil****Components:****ethylbenzene:**

Distribution among environmental compartments : log Koc: 3.12

**chlorobenzene:**

Distribution among environmental compartments : log Koc: 2.4

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

**SECTION 14. TRANSPORT INFORMATION****International Regulations****IATA-DGR**

UN/ID No.	: UN 1139
Proper shipping name	: Coating solution
Class	: 3
Packing group	: III
Labels	: Flammable Liquids
Packing instruction (cargo aircraft)	: 366
Packing instruction (passenger aircraft)	: 355

**IMDG-Code**

UN number	: UN 1139
Proper shipping name	: COATING SOLUTION
Class	: 3
Packing group	: III
Labels	: 3
EmS Code	: F-E, <u>S-E</u>
Marine pollutant	: no

**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 1139
Proper shipping name	: Coating solution
Class	: 3
Packing group	: III
Labels	: FLAMMABLE LIQUID
ERG Code	: 127
Marine pollutant	: no

**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.

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## SECTION 15. REGULATORY INFORMATION

### CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
xylene	1330-20-7	100	250
ethylbenzene	100-41-4	1000	10000
chlorobenzene	108-90-7	100	10000

### 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** : Flammable (gases, aerosols, liquids, or solids)  
Specific target organ toxicity (single or repeated exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

xylene	1330-20-7	>= 30 - < 50 %
ethylbenzene	100-41-4	>= 10 - < 20 %
chlorobenzene	108-90-7	>= 1 - < 5 %

### California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### 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
AIIC	: 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

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IECSC : On the inventory, or in compliance with the inventory

TECI : On the inventory, or in compliance with the inventory

## TSCA list

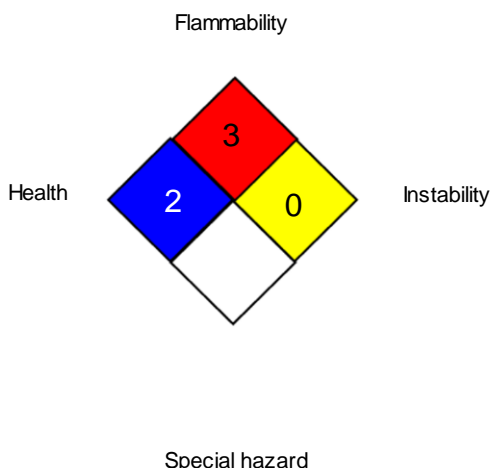
No substances are subject to a Significant New Use Rule.

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

## SECTION 16. OTHER INFORMATION

### Further information

#### NFPA 704:



#### HMIS® IV:

HEALTH	*	2
FLAMMABILITY		3
PHYSICAL HAZARD		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

ACGIH	: US. ACGIH Threshold Limit Values
ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA P0	: USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / STEL	: short-term exposure limit
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday

**Eastman(TM) Chlorinated Polyolefin 343-1  
(50% Solids in Xylene)**

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OSHA P0 / TWA	:	8-hour time weighted average
OSHA P0 / STEL	:	Short-term exposure limit
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-1 / STEL	:	15-minute occupational exposure limit

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council 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; TECL - 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 : 04/07/2022

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.

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