

**Eastman(TM) CP 310W Water-Reducible
Chlorinated Polyolefin Adhesion Promoter**

Version	Revision Date:	SDS Number:	Date of last issue: 12/12/2018
2.2	10/25/2019	150000000079	Date of first issue: 09/06/2016
PRD		SDSUS / Z8 / 0001	

SECTION 1. IDENTIFICATION

Product name : Eastman(TM) CP 310W Water-Reducible Chlorinated Polyolefin Adhesion Promoter

Product code : 13716-00, S1371603, S1371604, S1371607, P1371603, P1371604, P1371605

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 29 CFR 1910.1200**

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Other hazards

None known.

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

Chemical name	CAS-No.	Concentration (% w/w)
Water	7732-18-5	65 - 75
2,5-Furandione, reaction products with polypropylene, chlorinated	68609-36-9	22 - 25
C12-C14 ethoxylated secondary alcohols	84133-50-6	5 - 7
chlorobenzene	108-90-7	1 - 5
ammonium hydroxide	1336-21-6	1 - 3

SECTION 4. FIRST AID MEASURES

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If inhaled	:	Remove to fresh air. Treat symptomatically.
In case of skin contact	:	Wash off with warm water and soap. Get medical attention if irritation develops and persists.
In case of eye contact	:	Rinse with plenty of water. If eye irritation persists, consult a specialist.
If swallowed	:	Seek medical advice.
Most important symptoms and effects, both acute and delayed	:	None known.
Notes to physician	:	Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	:	Use water spray to extinguish. Carbon dioxide (CO2) Dry chemical Foam
Unsuitable extinguishing media	:	None known.
Specific hazards during fire fighting	:	None known.
Hazardous combustion products	:	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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Wear appropriate personal protective equipment. Prevent runoff from entering drains, sewers, or streams.
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).

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SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion : None known.

Advice on safe handling : No special precautions required.

Conditions for safe storage : Keep container tightly closed.

Further information on storage stability : Freezing will affect the physical condition but will not damage the material.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / 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 : 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 : Wear respiratory protection.

Hand protection

Remarks : Wear suitable gloves.

Eye protection : Safety glasses

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Color	:	off-white
Odor	:	mild, ammoniacal
Odor Threshold	:	not determined
pH	:	9.4
Melting point/range	:	not determined
Boiling point/boiling range	:	194 °F / 90 °C
Flash point	:	not applicable, combustible solid when dry
Evaporation rate	:	not determined
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	:	> 1 (estimated)
Solubility(ies) Water solubility	:	negligible
Partition coefficient: n-octanol/water	:	No data available
Autoignition temperature	:	not determined
Decomposition temperature	:	498 °F / 259 °C Decomposition energy (mass): 96.2 J/kg Weak exotherm
Viscosity Viscosity, dynamic	:	8 mPa.s (77 °F / 25 °C)
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
Possibility of hazardous reactions	: None known.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Carbon dioxide (CO ₂) 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

Components:**C12-C14 ethoxylated secondary alcohols:**

Acute oral toxicity	: LD50 Oral (Rat): 3,250 mg/kg
Acute dermal toxicity	: LD50 Dermal (Rabbit): 3,180 mg/kg

chlorobenzene:

Acute oral toxicity	: LD50 Oral (Rat): 2,262 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 29.7 mg/l Exposure time: 4 h
Acute dermal toxicity	: LD50 Dermal (Guinea pig): > 20,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Species	: Rabbit
Exposure time	: 4 h
Result	: No skin irritation

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Components:**C12-C14 ethoxylated secondary alcohols:**

Species	:	Rabbit
Exposure time	:	24 h
Result	:	slight

chlorobenzene:

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

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Result	:	slight
Assessment	:	No eye irritation
Method	:	unwashed eyes

Species	:	Rabbit
Result	:	slight
Assessment	:	No eye irritation
Method	:	washed eyes

Components:**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:

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

Components:**chlorobenzene:**

Test Type	:	Skin Sensitization
Species	:	Guinea pig

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Result : non-sensitizing

Germ cell mutagenicity

Not classified based on available information.

Components:**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

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 identified as probable, possible or confirmed 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.

Reproductive toxicity

Not classified based on available information.

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Effects on fertility : Remarks: No data available

STOT-single exposure

Not classified based on available information.

Product:

Remarks : No data available

Components:**chlorobenzene:**

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
: 235 mg/m³
Method : OECD Test No. 416: Two-Generation Reproduction Toxicity Study
Remarks : Published study

Aspiration toxicity

Not classified based on available information.

Product:

No data available

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Components:**chlorobenzene:**

May be harmful if swallowed and enters airways.

Information on likely routes of exposure**Product:**

Inhalation	:	Remarks: None known.
Skin contact	:	Remarks: None known.
Eye contact	:	Remarks: None known.
Ingestion	:	Remarks: None known.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish	:	LC50 (sideswimmer): > 100 mg/l Exposure time: 96 h LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (daphnid): 15.2 mg/l Exposure time: 48 h
Toxicity to fish (Chronic toxicity)	:	NOEC: (sideswimmer): 100 mg/l Exposure time: 4 d NOEC: (Pimephales promelas (fathead minnow)): 100 mg/l Exposure time: 4 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: (Daphnia magna (Water flea)): 6.2 mg/l Exposure time: 2 d

Components:**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

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icity) Exposure time: 28 d
Remarks: Published study

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 0.32 mg/l
aquatic invertebrates (Chronic toxicity) Exposure time: 16 d
Remarks: Published study

ammonium hydroxide:**Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Persistence and degradability**Components:****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

No data available

Mobility in soil**Components:****chlorobenzene:**

Distribution among environmental compartments : log Koc: 2.4

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**

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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 (lbs)	Calculated product RQ (lbs)
chlorobenzene	108-90-7	100	3333

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 : No SARA Hazards**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:

DSL : All components of this product are on the Canadian DSL

AICS : 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

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

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TSCA : All substances listed as active on the TSCA inventory

TSCA list

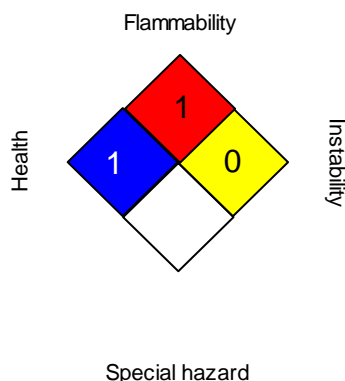
No substances are subject to a Significant New Use Rule.

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

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



HMIS® IV:

HEALTH	/	1
FLAMMABILITY		1
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 : USA. ACGIH Threshold Limit Values (TLV)
 OSHA P0 : 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

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in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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 : 10/25/2019

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.

US / Z8