

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

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

Product No.: EAN 971151. F1371603

Synonyms, Trade Names: 13716-00

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Adhesion promoter

Uses advised against: None known.

Details of the supplier of the safety data sheet

Manufacturer / Supplier

Eastman Chemical Company
200 South Wilcox Drive
Kingsport, TN 37660-5280 US
+14232292000

Visit our website at www.EASTMAN.com or email emmsds@eastman.com

Emergency telephone number:

For emergency health, safety, and environmental information, call 1-423-229-4511 or 1-423-229-2000.

For emergency transportation information, in the United States: call CHEMTREC at 800-424-9300 or call 423-229-2000.

SECTION 2: Hazards identification

Hazard Classification: The product has not been classified as hazardous according to the legislation in force.

OSHA Specified Hazards: not applicable

Hazard(s) not otherwise classified (HNOC): None known.

SECTION 3: Composition/information on ingredients

Substances / Mixtures

General information:

Chemical name	Concentration	Additional identification	Notes
water	65 - 75%	CAS-No.: 7732-18-5	
chlorinated polypropylene/maleic anhydride copolymer	22 - 25%	CAS-No.: 68609-36-9	
C12-C14 secondary alcohols, ethoxylated	5 - 7%	CAS-No.: 84133-50-6	
chlorobenzene	1 - 5%	CAS-No.: 108-90-7	#

ammonium hydroxide	1 - 3%	CAS-No.: 1336-21-6	#
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* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
 # This substance has workplace exposure limit(s).

SECTION 4: First aid measures

Description of first aid measures

Inhalation: Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.

Eye contact: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms persist.

Skin contact: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Seek medical advice.

Most important symptoms and effects, both acute and delayed: No known chronic or acute health risks.

Indication of any immediate medical attention and special treatment needed

Hazards: None known.

Treatment: Treat symptomatically.

SECTION 5: Firefighting measures

General Fire Hazards: None known.

Extinguishing media

Suitable extinguishing media: Water spray. Carbon Dioxide. Dry chemical. Foam.

Unsuitable extinguishing media: None known.

Special hazards arising from the substance or mixture: None known.

Advice for firefighters

Special fire fighting procedures: None known.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate personal protective equipment.

- Environmental Precautions:** Avoid release to the environment.
- Methods and material for containment and cleaning up:** Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.
- Notification Procedures:** In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.

SECTION 7: Handling and storage:

- Precautions for safe handling:** No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the SDS for additional personal protection advice when handling this product.
- Conditions for safe storage, including any incompatibilities:** Keep container closed.
- Specific end use(s):** Adhesion promoter

SECTION 8: Exposure controls/personal protection

Control Parameters
Occupational Exposure Limits

Country specific exposure limits have not been established or are not applicable unless listed below.

Chemical name	type	Exposure Limit Values	Source
chlorobenzene	TWA	10 ppm	US. ACGIH Threshold Limit Values (01 2010)
	PEL	75 ppm 350 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
ammonium hydroxide	STEL	35 ppm 27 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	35 ppm	US. ACGIH Threshold Limit Values (01 2010)
	TWA	25 ppm	US. ACGIH Threshold Limit Values (01 2010)
	PEL	50 ppm 35 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)

Biological Limit Values

Chemical name	Exposure Limit Values	Source
chlorobenzene (4-Chlorocatechol, with hydrolysis: Sampling time: End of shift at end of work week.)	100 mg/g (Creatinine in urine)	ACGIH BEL (01 2010)
chlorobenzene (p-Chlorophenol, with hydrolysis: Sampling time: End of shift at end of work week.)	20 mg/g (Creatinine in urine)	ACGIH BEL (01 2010)

Exposure controls

Appropriate engineering controls: 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.

Individual protection measures, such as personal protective equipment

General information: Eye bath. Washing facilities.

Eye/face protection: It is a good industrial hygiene practice to minimize eye contact.

Skin protection

Hand Protection: It is a good industrial hygiene practice to minimize skin contact.

Other: No data available.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Hygiene measures: Observe good industrial hygiene practices.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	Off-white
Odor:	Mild, ammonia
Odor Threshold:	Not determined.
pH:	9.4 (as is)
Boiling Point:	90 °C
Flash Point:	not applicable, combustible solid when dry
Evaporation Rate:	Not determined.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	Not determined.
Vapor density (air=1):	No data available.
Specific Gravity:	> 1 (estimated)
Solubility(ies)	

Solubility in Water:	Negligible
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	259 °C 96.2 J/kg Weak exotherm
Dynamic viscosity:	8 mPa.s (25 °C)
Kinematic viscosity:	Not determined.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: Stability and reactivity

Reactivity:	None known. Materials containing similar structural groups are normally stable.
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	None known.
Conditions to Avoid:	None at ambient temperatures.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon Dioxide. Carbon Monoxide.

SECTION 11: Toxicological information

Information on likely routes of exposure

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

Information on toxicological effects

Oral

Product:	Oral LD-50: (Rat): > 2,000 mg/kg (only dose tested)
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Dermal

Product:	No data available.
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Specified substance(s):

C12-C14 ethoxylated secondary alcohols	Dermal LD-50: (Rabbit): 3,180 mg/kg
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Specified substance(s):

chlorobenzene	Dermal LD-50: (Guinea Pig): > 20,000 mg/kg
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Inhalation**Product:** No data available.**Specified substance(s):**

chlorobenzene LC50 (Rat, 4 h): 29.7 mg/l

Repeated dose toxicity**Product:** No data available.**Skin Corrosion/Irritation****Product:** (Rabbit, 4 h): none**Serious Eye Damage/Eye Irritation****Product:** unwashed eyes (Rabbit): slight
washed eyes (Rabbit): slight**Respiratory or Skin Sensitization****Product:** Skin Sensitization: (Guinea Pig): non-sensitizing**Carcinogenicity****Product:** No data available.**Specified substance(s):**

chlorobenzene IARC Not Listed. NTP Not Listed. OSHA Not Listed.

Toxicity to reproduction**Product:** No data available.**Developmental toxicity****Product:** No data available.**Germ Cell Mutagenicity****In vitro****Product:** No data available.**In vivo****Product:** No data available.**Specific Target Organ Toxicity - Single Exposure****Product:** No data available.**Specified substance(s):**

chlorobenzene Inhalation: Narcotic effect.

Specific Target Organ Toxicity - Repeated Exposure**Product:** No data available.**Aspiration Hazard****Product:** No data available.**Specified substance(s):**

chlorobenzene

May be harmful if swallowed and enters airways.

Other effects:

No data available.

SECTION 12: Ecological information**Ecotoxicity:****Acute hazards to the aquatic environment:****Fish**

Product: LC-50 (sideswimmer, 96 h): > 100 mg/l
LC-50 (Fathead Minnow, 96 h): > 100 mg/l

Aquatic Invertebrates

Product: EC-50 (daphnid, 48 h): 15.2 mg/l
LC-50 (flatworm, 96 h): > 100 mg/l
LC-50 (snail, 96 h): > 100 mg/l
LC-50 (aquatic earthworm, 96 h): > 100 mg/l
LC-50 (pill bug, 96 h): > 100 mg/l

Chronic hazards to the aquatic environment:**Fish**

Product: NOEC: (sideswimmer, 4 d): 100 mg/l
NOEC: (Fathead Minnow, 4 d): 100 mg/l

Aquatic Invertebrates

Product: NOEC: (daphnid, 2 d): 6.2 mg/l
NOEC: (flatworm, 4 d): 50 mg/l
NOEC: (snail, 4 d): 100 mg/l
NOEC: (aquatic earthworm, 4 d): 100 mg/l
NOEC: (pill bug, 4 d): 100 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability**Biodegradation**

Product: No data available.

BOD/COD Ratio

Product: No data available.

Specified substance(s):

chlorobenzene

7.32 %

Bioaccumulative Potential**Bioconcentration Factor (BCF)**

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

SECTION 13: Disposal considerations

Waste treatment methods

General information: No data available.

Disposal methods: Dispose of waste and residues in accordance with local authority requirements. Incinerate.

SECTION 14: Transport information

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT

Class 9, Packing Group III when material is shipped in quantities in one package at or above the Reportable Quantity and when no other hazard class applies; otherwise, not regulated.

Reportable Quantity: 908 kg

IMDG - International Maritime Dangerous Goods Code

Class not regulated

IATA

Class not regulated

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture.:

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
WHMIS (Canada) Status: noncontrolled

SARA 311-312 Hazard Classification(s):

immediate (acute) health hazard

US EPCRA (SARA Title III) Section 313 - Toxic Chemical ListCHLOROBENZENE
AMMONIUM HYDROXIDE**OSHA:** hazardous**TSCA (US Toxic Substances Control Act):** All components of this product are listed on the TSCA inventory. Any impurities present in this product are exempt from listing.**DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act):** All components of this product are listed on the DSL. Any impurities present in this product are exempt from listing.**AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme):** All components of this product are listed on AICS or otherwise comply with NICNAS.**MITI (Japanese Handbook of Existing and New Chemical Substances):** All components of this product are listed in the Handbook or have been approved in Japan by new substance notification.**ECL (Korean Toxic Substances Control Act):** All components of this product are listed on the Korean inventory or otherwise comply with the Korean Toxic Substances Control Act.**Inventory of Existing Chemical Substances in China:** All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).**SECTION 16: Other information****HMIS® Hazard Ratings:** Health - 1, Flammability - 1, Chemical Reactivity - 0

HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

Revision Information: Not relevant.**Key literature references and sources for data:** No data available.**Training information:** No data available.**Issue Date:** 05/14/2015**SDS No.:****Disclaimer:** This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.