

Eastman(TM) CP 349W Water-Reducible Chlorinated Polyolefin Adhesion Promoter

Version Revision Date: SDS Number: Date of last issue: 09/15/2016
3.0 09/15/2016 150000000082 Date of first issue: 09/06/2016
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SECTION 1. IDENTIFICATION

Product name : Eastman(TM) CP 349W Water-Reducible Chlorinated Polyolefin Adhesion Promoter

Product code : EAN 971495. 14307-00, P1430706, P1430703, P1430704, P1430707

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 : paint primer

Restrictions on use : None known.

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Specific target organ : Category 2 (Kidney)
systemic toxicity - repeated
exposure

GHS label elements

Hazard pictograms : 

Signal Word : Warning

Hazard Statements : H373 May cause damage to organs (Kidney) through prolonged or repeated exposure.

Precautionary Statements : **Prevention:**
P260 Do not breathe dust/ fume/ gas/ mist/ vapors/ spray.
Response:
P314 Get medical advice/ attention if you feel unwell.
Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance name : 14307-00

Ingredients

Chemical name	CAS-No.	Concentration (% w/w)
Water	7732-18-5	60 - 80
modified chlorinated polyolefin	68609-36-9	15 - 20
ethylene glycol	107-21-1	3 - 7
poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy-	127087-87-0	3 - 7
2-amino-2-methyl-1-propanol	124-68-5	1 - 2

SECTION 4. FIRST AID MEASURES

- General advice : Get medical attention if symptoms occur.
Show this safety data sheet to the doctor in attendance.
If breathing is difficult, give oxygen.
Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- If inhaled : Remove person to fresh air and keep comfortable for breathing.
Consult a physician if necessary.
- In case of skin contact : Wash off with soap and water.
Get medical attention if irritation develops and persists.
Wash contaminated clothing before re-use.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
Get medical attention if symptoms occur.
- If swallowed : Seek medical advice.
- Most important symptoms and effects, both acute and delayed : May cause damage to organs through prolonged or repeated exposure.
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 | : Water spray
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 | : Use water spray to cool unopened containers. |
| 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). |

SECTION 7. HANDLING AND STORAGE

- | | |
|-----------------------------|---|
| Advice on safe handling | : No special precautions required.
Destroy or thoroughly clean contaminated shoes.
Drain or remove substance from equipment prior to break-in or maintenance.
Handle in accordance with good industrial hygiene and safety practice.
See also Section 8 for additional information on hygiene measures. |
| Conditions for safe storage | : Keep tightly closed. |

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

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
ethylene glycol	107-21-1	C (Aerosol only)	100 mg/m ³	ACGIH
		C	50 ppm 125 mg/m ³	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 : 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.
Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary.
Respirator selection, use, and maintenance must be in accordance with regulatory requirements, if applicable.

Hand protection

Remarks : Contact the glove manufacturer for specific advice on glove selection and breakthrough times for your use conditions. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations.

Eye protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. Wear safety glasses with side shields (or goggles).

Protective measures : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

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

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Contaminated work clothing must not be allowed out of the workplace.
Wash contaminated clothing before reuse.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: liquid
Color	: tan
Odor	: amine-like
Odor Threshold	: not determined
pH	: 9.2, (as is)
Melting point/freezing point	: 0 °C
Boiling point/boiling range	: > 100 °C
Flash point	: The product is not flammable.
Evaporation rate	: not determined
Flammability (solid, gas)	: Not applicable
Vapor pressure	: not determined
Relative density	: 1.025 (25 °C)
Solubility(ies)	
Water solubility	: dispersible
Partition coefficient: n-octanol/water	: Not applicable
Decomposition temperature	: Thermal stability not tested. Low stability hazard expected at normal operating temperatures.
Viscosity	
Viscosity, dynamic	: 10 mPa,s (25 °C)
Viscosity, kinematic	: 9.75 mm ² /s (25 °C)
Explosive properties	: Classification Code: Not classified
Oxidizing properties	: Not classified

SECTION 10. STABILITY AND REACTIVITY

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Reactivity	: Stable
Chemical stability	: None reasonably foreseeable.
Possibility of hazardous reactions	: Stable
Conditions to avoid	: None.
Incompatible materials	: Strong oxidizing agents
Hazardous decomposition products	: Emits acrid smoke and fumes when heated to decomposition. Carbon dioxide (CO ₂) carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

Acute oral toxicity	: > 2,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity
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Ingredients:**ethylene glycol:**

Acute oral toxicity	: LD50 Oral (Rat): 7,712 mg/kg
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Acute inhalation toxicity	: LC50 (Rat): > 2.5 mg/l Exposure time: 6 h
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Acute dermal toxicity	: LD50 Dermal (Mouse): > 3,500 mg/kg
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poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy-:

Acute oral toxicity	: LD50 Oral (Rat, female): 1,770 - 4,530 mg/kg LD50 Oral (Rat, male): 1,670 - 3,250 mg/kg
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Acute inhalation toxicity	: LC50 (Rat): > 650 ppm Exposure time: 8 h
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Acute dermal toxicity	: LD50 Dermal (Rabbit): 1,750 - 4,570 mg/kg
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2-amino-2-methyl-1-propanol:

Acute oral toxicity	: LD50 Oral (Rat): 2,900 mg/kg
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Acute dermal toxicity	: LD50 Dermal (Rabbit): > 2,000 mg/kg
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Skin corrosion/irritation

Not classified based on available information.

Product:

Species: Rabbit
Exposure time: 24 h
Assessment: No skin irritation
Method: Acute Dermal Irritation / Corrosion
Result: none

Ingredients:**ethylene glycol:**

Species: Rabbit
Exposure time: 24 h
Result: none

poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy-:

Species: Rabbit
Exposure time: 24 h
Result: slight

2-amino-2-methyl-1-propanol:

Species: Rabbit
Result: slight

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species: Rabbit
Result: none
Exposure time: 24 h
Assessment: Not classified
Method: Acute Eye Irritation / Corrosion

Ingredients:**ethylene glycol:**

Species: Rabbit
Result: none
Exposure time: 24 h

poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy-:

Species: Rabbit
Result: No eye irritation
Exposure time: 24 h

2-amino-2-methyl-1-propanol:

Species: Rabbit
Result: No eye irritation
Exposure time: 24 h

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Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product:

Test Type: OECD 406: Guinea pig sensitization

Species: Guinea pig

Assessment: Not classified

Method: OECD 406: Guinea pig sensitization

Result: non-sensitizing

Ingredients:**ethylene glycol:**

Test Type: Skin Sensitization

Species: Guinea pig

Result: non-sensitizing

Germ cell mutagenicity

Not classified based on available information.

Ingredients:**ethylene glycol:**

Genotoxicity in vitro

: Test Type: Mutagenicity - Bacterial

Metabolic activation: +/- activation

Result: negative

: Test Type: Mutagenicity - Mammalian

Metabolic activation: +/- activation

Result: negative

: Test Type: Chromosome aberration test in vitro

Metabolic activation: +/- activation

Result: negative

Genotoxicity in vivo

: Species: Rat (Male and Female)

Application Route: Oral

Result: negative

Carcinogenicity

Not classified based on available information.

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 ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

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.

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Reproductive toxicity

Not classified based on available information.

Ingredients:**ethylene glycol:**

Effects on fertility :

Remarks: Based on available data, the classification criteria are not met

Effects on fetal development : Remarks: Based on available data, the classification criteria are not met

STOT-single exposure

Not classified based on available information.

Ingredients:**ethylene glycol:**

Assessment: Based on available data, the classification criteria are not met

STOT-repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure.

Ingredients:**ethylene glycol:**

Routes of exposure: Oral

Target Organs: Kidney

Repeated dose toxicity**Ingredients:****ethylene glycol:**

Species: Rat, male

NOAEL: 150 mg/l

Application Route: Oral

Exposure time: 2 year

Method: OECD Test No. 452: Chronic Toxicity Studies

Aspiration toxicity

Not classified based on available information.

Product:

Not classified

Ingredients:**ethylene glycol:**

Not classified

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

Inhalation : Remarks: None known.

Skin contact : Remarks: None known.

Eye contact : Remarks: None known.

Ingestion : Remarks: May cause damage to organs through prolonged or repeated exposure.

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

Toxicity to fish (Chronic toxicity) : NOEC:
Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC:
Remarks: No data available

Ingredients:**ethylene glycol:**

Toxicity to fish : LC50 (Fish): 72,860 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (daphnid): ≥ 100 mg/l
Exposure time: 48 h

Toxicity to algae : ErC50 (Chlorella pyrenoidosa): 6,500 - 13,000 mg/l
Exposure time: 96 h

poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy-:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 6.9 - 8.6 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 16.7 - 27.5 mg/l
Exposure time: 48 h

2-amino-2-methyl-1-propanol:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 190 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : (Crangon crangon (shrimp)): 179 mg/l
Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella pyrenoidosa): 402 mg/l

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Exposure time: 72 h

Persistence and degradability**Product:**

Biodegradability : Remarks: No data available

Biochemical Oxygen Demand (BOD) : Remarks: No data available

Chemical Oxygen Demand (COD) : Remarks: No data available

Ingredients:**ethylene glycol:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 90 %
Exposure time: 10 d
Method: Ready Biodegradability: DOC Die Away Test

poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy-:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 58.7 %
Exposure time: 35 d
Method: Rapidamente biodegradável: CO2 teste de evolução
Remarks: Read-across from a similar material

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: No data available

Mobility in soil**Ingredients:****ethylene glycol:**

Distribution among environmental compartments : Koc: 0.2239 - 1, log Koc: 0
Method: QSAR model

Other adverse effects**Product:**

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances
Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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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 Regulation****IATA-DGR**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

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

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION**EPCRA - Emergency Planning and Community Right-to-Know**

SARA 311/312 Hazards : Chronic Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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

ethylene glycol	107-21-1
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Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

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The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

ethylene glycol 107-21-1

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMII Intermediate or Final VOC's (40 CFR 60.489):

ethylene glycol 107-21-1

Clean Water Act

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

The ingredients of this product are reported in the following inventories:

CH INV	: On the inventory, or in compliance with the inventory
DSL	: All components of this product are on the Canadian DSL
AICS	: On the inventory, or in compliance with the inventory
NZIoC	: 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
TSCA	: On TSCA Inventory

TSCA list

No substances are subject to a Significant New Use Rule.

The following substance(s) is/are subject to TSCA 12(b) export notification requirements:

poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega- 127087-87-0
hydroxy-

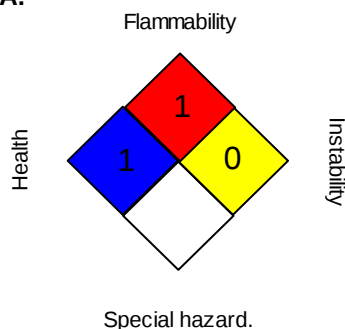
SECTION 16. OTHER INFORMATION**Full text of other abbreviations**

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;

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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; 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

Further information**NFPA:****HMIS III:**

HEALTH	2*
FLAMMABILITY	1
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

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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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