SAFETY DATA SHEET

Eastman(TM) CP 347W Water-Reducible Chlorinated Polyolefin Adhesion Promoter

SECTION 1. IDENTIFICATION

Product name: Eastman(TM) CP 347W Water-Reducible Chlorinated Polyolefin Adhesion Promoter

Product code: P1430803

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 in accordance with 29 CFR 1910.1200

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

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:
SAFETY DATA SHEET

Eastman(TM) CP 347W Water-Reducible Chlorinated Polyolefin Adhesion Promoter

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>&gt;72</td>
</tr>
<tr>
<td>modified chlorinated polyolefin</td>
<td>68609-36-9</td>
<td>20</td>
</tr>
<tr>
<td>poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy-2-amino-2-methyl-1-propanol</td>
<td>127087-87-0</td>
<td>&lt;5</td>
</tr>
<tr>
<td>ethylene glycol</td>
<td>107-21-1</td>
<td>&lt;2.5</td>
</tr>
<tr>
<td>additive(s)</td>
<td>proprietary</td>
<td>&lt;1</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

If inhaled: Move to fresh air. Call a physician or poison control center immediately.

In case of skin contact: Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing immediately. Call a physician or poison control center immediately.

In case of eye contact: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: Get medical advice/attention. Seek medical advice.

Most important symptoms and effects, both acute and delayed: May cause damage to organs through prolonged or repeated exposure. Health injuries may be delayed.

Notes to physician: Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide (CO2)
Dry chemical
Water spray

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire. Do NOT use water jet.
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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 : 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 : Sweep up or vacuum up spillage and collect in suitable container for disposal. 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 protection against fire and explosion : None known.

Advice on safe handling : Do not breathe vapors or spray mist. Do not get on skin or clothing. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage : Keep tightly closed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethylene glycol</td>
<td>107-21-1</td>
<td>C (Aerosol only)</td>
<td>100 mg/m³</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td>C</td>
<td>50 ppm 125 mg/m³</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>
Engineering measures: Good general ventilation (typically 10 air changes per hour) should be sufficient to control airborne levels.

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 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: liquid
Color: tan
Odor: amine-like
Odor Threshold: not determined
pH: 9.2 (as is)
Melting point/range: 32 °F / 0 °C
Boiling point/boiling range: > 212 °F / > 100 °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
### SECTION 10. STABILITY AND REACTIVITY

**Reactivity**: None reasonably foreseeable.

**Chemical stability**: Stable under normal conditions.

**Possibility of hazardous reactions**: Stable

**Conditions to avoid**: None known.

**Incompatible materials**: Strong oxidizing agents

**Hazardous decomposition products**: Carbon dioxide (CO2)

**SECTION 11. TOXICOLOGICAL INFORMATION**

**Acute toxicity**: Not classified based on available information.

**Product**:  
**Acute oral toxicity**: Remarks: None.

Acute toxicity estimate: > 5,000 mg/kg
Acute inhalation toxicity: Remarks: No significant adverse effects were reported

Acute toxicity estimate: > 200 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity: Remarks: No significant adverse effects were reported

Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Ingredients:

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

Acute inhalation toxicity: LC50 (Rat): > 650 ppm
Exposure time: 8 h
Test atmosphere: dust/mist

Acute dermal toxicity: LD50 Dermal (Rabbit): 1,750 - 4,570 mg/kg

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

Acute oral toxicity: LD50 Oral (Rat): 2,900 mg/kg

Acute dermal toxicity: LD50 Dermal (Rabbit): > 2,000 mg/kg

Skin corrosion/irritation
Not classified based on available information.

Product:
Species: Rabbit
Exposure time: 72 h
Assessment: Not classified
Result: No skin irritation

Ingredients:

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:

<table>
<thead>
<tr>
<th>Species</th>
<th>Rabbit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Result</td>
<td>No eye irritation</td>
</tr>
<tr>
<td>Assessment</td>
<td>Not classified</td>
</tr>
<tr>
<td>Method</td>
<td>OECD Test Guideline 405</td>
</tr>
</tbody>
</table>

### Ingredients:

- **poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy:-**
  - **Species**: Rabbit
  - **Result**: No eye irritation
  - **Exposure time**: 24 h

### Respiratory or skin sensitization

### Skin sensitization

Not classified based on available information.

### Respiratory sensitization

Not classified based on available information.

### Germ cell mutagenicity

Not classified based on available information.

### 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 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.

### STOT-single exposure

Not classified based on available information.

### Product:

<table>
<thead>
<tr>
<th>Remarks</th>
<th>No data available</th>
</tr>
</thead>
</table>

### STOT-repeated exposure

May cause damage to organs (Kidney) through prolonged or repeated exposure.
SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:
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
Exposure time: 72 h

Persistence and degradability

Ingredients:
poly(oxy-1,2-ethanediyl, alpha-(4-nonylphenyl)-omega-hydroxy-):
Biodegradability:
Result: Not readily biodegradable.
Biodegradation: 58.7 %
Exposure time: 35 d
Method: Ready Biodegradability: CO2 Evolution Test
Remarks: Read-across from a similar material
Bioaccumulative potential
No data available

Mobility in soil
No data available

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

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>chlorobenzene</td>
<td>108-90-7</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

*: 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
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards: Specific target organ toxicity (single or repeated exposure)

SARA 313: The following components are subject to reporting levels established by SARA Title III, Section 313:
California Prop. 65
WARNING: This product can expose you to chemicals including ethylene glycol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Reporting Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>DSL</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>AICS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>NZIoC</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>ENCS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>ISHL</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>KECI</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>PICCS</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>IECSC</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>TCSI</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
<tr>
<td>TSCA</td>
<td>On the inventory, or in compliance with the inventory</td>
</tr>
</tbody>
</table>

TSCA list
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.
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**Eastman(TM) CP 347W Water-Reducible Chlorinated Polyolefin Adhesion Promoter**

**SECTION 16. OTHER INFORMATION**

Further information

**NFPA 704:**

- **Health:** 10
- **Flammability:** 11
- **Instability:** 00

**Special hazard.**

**HMIS® IV:**

- **HEALTH**
- **FLAMMABILITY**
- **PHYSICAL HAZARD**

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
- **ACGIH / C**: Ceiling limit
- **OSHA P0 / C**: Ceiling limit

**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** - (Quantitative Structure-Activity Relationship...

Revision Date : 08/16/2018

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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