SAFETY DATA SHEET

Chlorinated Polyolefin 730-1 (20% Solids in Aromatic 100)

SECTION 1. IDENTIFICATION

Product name : Chlorinated Polyolefin 730-1 (20% Solids in Aromatic 100)
Product code : S2493803

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
Flammable liquids : Category 3
Skin irritation : Category 2
Eye irritation : Category 2A
Germ cell mutagenicity : Category 1B
Carcinogenicity : Category 1B
Specific target organ systemic toxicity - single exposure : Category 3 (Respiratory system)
Aspiration hazard : Category 1

GHS label elements
Hazard pictograms :

Signal Word : Danger
Hazard Statements:
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H340 May cause genetic defects.
H350 May cause cancer.

Precautionary Statements:

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
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.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P331 Do NOT induce vomiting.
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**
<** Phrase language not available: [ Z8 ] CUST - EMN-OBsolete **>

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.</th>
<th>Concentration (% w/w)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified</td>
<td>64742-95-6</td>
<td>&gt; 50</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>25.6</td>
</tr>
<tr>
<td>modified chlorinated polyolefin</td>
<td>68609-36-9</td>
<td>&gt; 18</td>
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<tr>
<td>epoxidized oil</td>
<td>61789-01-3</td>
<td>&lt; 3</td>
</tr>
<tr>
<td>chlorobenzene</td>
<td>108-90-7</td>
<td>&lt; 3</td>
</tr>
<tr>
<td>xylenes</td>
<td>1330-20-7</td>
<td>&lt; 3</td>
</tr>
<tr>
<td>cumene</td>
<td>98-82-8</td>
<td>&lt; 3</td>
</tr>
<tr>
<td>ethylbenzene</td>
<td>100-41-4</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

### SECTION 4. FIRST AID MEASURES

**If inhaled**
- Remove to fresh air.
- If not breathing, give artificial respiration.
- If breathing is difficult, give oxygen.
- Get immediate medical advice/attention.

**In case of skin contact**
- Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Get medical advice/attention.
- Wash contaminated clothing before reuse.
- Destroy or thoroughly clean contaminated shoes.

**In case of eye contact**
- In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
- Get medical advice/attention.

**Most important symptoms and effects, both acute and delayed**
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May be fatal if swallowed and enters airways.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause respiratory irritation.
- May cause genetic defects.
- May cause cancer.
SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use water spray to extinguish.
Dry chemical
Carbon dioxide (CO2)
Foam

Unsuitable extinguishing media : None known.

Hazardous combustion products : No hazardous combustion products are known

Further information : Flammable liquid and vapor.
Material will float and may ignite on surface of water.

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 : Avoid breathing mist or vapors.
Avoid contact with skin, eyes and clothing.
Do not taste or swallow.
Use only with adequate ventilation.
Wash thoroughly after handling.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters
## Ingredients

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Value type</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
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<tr>
<td>95-63-6</td>
<td>TWA</td>
<td>25 ppm 125 mg/m3</td>
<td>NIOSH REL</td>
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<tr>
<td>108-90-7</td>
<td>TWA</td>
<td>10 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>75 ppm 350 mg/m3</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
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<td>OSHA P0</td>
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<td>100 ppm 435 mg/m3</td>
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<tr>
<td></td>
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<td>150 ppm 655 mg/m3</td>
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<td>NIOSH REL</td>
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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: Wash hands after handling.

Eye protection: Safety glasses with side-shields
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: liquid
Color: yellow
Odor: aromatic
Odor Threshold: not determined
pH: not determined
Melting point/range:
Boiling point/boiling range: 155 °C
Flash point: 40.0 °C
Method: Pensky-Martens closed cup
Evaporation rate: not determined
Upper explosion limit: not determined
Vapor pressure: not determined
Relative vapor density: not determined
Relative density: < 1
Solubility(ies):
  Water solubility: negligible
Partition coefficient: n-octanol/water: No data available
Autoignition temperature: not determined
Decomposition temperature: 300 °C
  Method: HPDSC
Viscosity:
  Viscosity, dynamic: not determined
  Viscosity, kinematic: not determined
Explosive properties: No data available
Oxidizing properties: No data available
SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: None known.

Conditions to avoid: Heat, flames and sparks.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Carbon dioxide (CO2)
Carbon monoxide
Hydrogen chloride

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity
Not classified based on available information.

Product:
Acute oral toxicity: Remarks: No data available
Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute inhalation toxicity: Remarks: No data available
Acute toxicity estimate: 40.15 mg/l
Exposure time: 4 h
Test atmosphere: vapor
Method: Calculation method

Acute dermal toxicity: Remarks: No data available
Acute toxicity estimate: 3,281 mg/kg
Method: Calculation method

Ingredients:
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:
Acute oral toxicity: LD50 Oral (Rat): > 5,000 mg/kg

Acute inhalation toxicity: LC50 (Rat): > 76.3 mg/l
Exposure time: 4 h

Acute dermal toxicity: LD50 Dermal (Rabbit): > 2,000 mg/kg
## 1,2,4-Trimethylbenzene:

- **Acute oral toxicity**: LD50 Oral (Rat, male): 6,000 mg/kg
- **Acute inhalation toxicity**: LC50 (Rat): 18 mg/l
  
  Exposure time: 4 h
  
  Remarks: respiratory tract irritation
- **Acute dermal toxicity**: LD50 Dermal (Rat): > 3,440 mg/kg
  
  Remarks: Read-across from a similar material

## 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

## Xylenes:

- **Acute oral toxicity**: LD50 Oral (Rat, male): 3,523 mg/kg
  
  LD50 Oral (Rat, female): > 4,000 mg/kg
- **Acute inhalation toxicity**: LC50 (Rat): 29 mg/l
  
  Exposure time: 4 h
- **Acute dermal toxicity**: LD50 Dermal (Rabbit): > 4,200 mg/kg

## Cumene:

- **Acute oral toxicity**: LD50 Oral (Rat): 2,910 mg/kg
- **Acute inhalation toxicity**: LC50 (Rat): 41.6 mg/l
  
  Exposure time: 4 h
- **Acute dermal toxicity**: LD50 Dermal (Rabbit): > 10,000 mg/kg
  
  Assessment: The substance or mixture has no acute dermal toxicity

## Ethylbenzene:

- **Acute oral toxicity**: LD50 Oral (Rat): 3,500 mg/kg
- **Acute inhalation toxicity**: LC50 (Rat): 17 mg/l
  
  Exposure time: 4 h
- **Acute dermal toxicity**: LD50 Dermal (Rabbit): 15,400 mg/kg

### Skin corrosion/irritation

Causes skin irritation.
Product:
Remarks: No data available

Ingredients:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:
Species: Rabbit
Exposure time: 72 h
Result: slight

1,2,4-Trimethylbenzene:
Species: Rabbit
Exposure time: 72 h
Result: slight
Remarks: Read-across from a similar material

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

Xylenes:
Species: Rabbit
Exposure time: 24 h
Result: slight

Cumene:
Species: Rabbit
Exposure time: 72 h
Result: slight

Ethylbenzene:
Species: Rabbit
Exposure time: 24 h
Result: slight

Serious eye damage/eye irritation
Causes serious eye irritation.

Product:
Remarks: No data available

Ingredients:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:
Species: Rabbit
Result: none
1,2,4-Trimethylbenzene:
Species: Rabbit
Result: slight

Chlorobenzene:
Species: Rabbit
Result: slight

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

Cumene:
Species: Rabbit
Result: slight
Exposure time: 72 h

Ethylbenzene:
Species: Rabbit
Result: moderate to strong

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

Ingredients:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:
Test Type: Skin Sensitization
Species: Guinea pig
Result: non-sensitizing

1,2,4-Trimethylbenzene:
Test Type: Skin Sensitization
Species: Guinea pig
Result: non-sensitizing
chlorobenzene:
Test Type: Skin Sensitization
Species: Guinea pig
Result: non-sensitizing

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

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

ethylbenzene:
Test Type: Skin Sensitization
Result: non-sensitizing

Germ cell mutagenicity
May cause genetic defects.

Ingredients:
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
SAFETY DATA SHEET

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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

Carcinogenicity
May cause cancer.

Product:
Remarks: This information is not available.

IARC
Group 2B: Possibly carcinogenic to humans

cumene 98-82-8
ethylbenzene 100-41-4

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
Reasonably anticipated to be a human carcinogen

cumene 98-82-8

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

Ingredients:

chlorobenzene:
Routes of exposure: Inhalation
Target Organs: Narcotic effects

xylenes:
Routes of exposure: Inhalation
Target Organs: respiratory tract irritation

**ethylbenzene:**
Routes of exposure: Inhalation
Target Organs: Narcotic effects

**STOT-repeated exposure**
Not classified based on available information.

**Product:**
Remarks: No data available

**Ingredients:**

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

**Repeated dose toxicity**

**Ingredients:**

**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

**xlenes:**
Species: Rat, Male and Female
NOAEL: 250 mg/kg
Application Route: Oral Study

Species: Rat, male
3515 mg/m³
Application Route: Inhalation

**Aspiration toxicity**
May be fatal if swallowed and enters airways.

**Product:**
No data available
Ingredients:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:
May be fatal if swallowed and enters airways.

1,2,4-Trimethylbenzene:
May be harmful if swallowed and enters airways.

chlorobenzene:
May be harmful if swallowed and enters airways.

xylenes:
May be fatal if swallowed and enters airways.

cumene:
May be fatal if swallowed and enters airways.

ethylnbenzene:
May be fatal if swallowed and enters airways.

Information on likely routes of exposure

Product:
Inhalation : Remarks: May cause respiratory irritation.
Skin contact : Remarks: Causes skin irritation.
Eye contact : Remarks: Causes serious eye irritation.
Ingestion : Remarks: May be fatal if swallowed and enters airways.

Further information

Product:
Remarks: Causes damage to organs.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8.2 mg/l
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 4.5 mg/l
aquatic invertebrates:  Exposure time: 48 h

Toxicity to algae:  EC50 (Selenastrum capricornutum (green algae)): 3.1 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):  
EC50 (Daphnia magna (Water flea)): 10 mg/l  
Exposure time: 21 d

1,2,4-Trimethylbenzene:
Toxicity to fish:  LC50 (Pimephales promelas (fathead minnow)): 7.72 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:  
LC50 (Daphnia magna (Water flea)): 3.6 mg/l  
Exposure time: 48 h

Toxicity to algae:  EC50 (Chlorella pyrenoidosa): 2.356 mg/l  
Exposure time: 96 h

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

xylenes:
Toxicity to fish:  LC50 (Oncorhynchus mykiss (rainbow trout)): 2.6 mg/l  
Exposure time: 96 h  
Remarks: Read-across from a similar material

Toxicity to daphnia and other aquatic invertebrates:  
EC50 (Daphnia magna (Water flea)): > 3.4 mg/l  
Exposure time: 24 h

Toxicity to algae:  EC50 (Selenastrum capricornutum (green algae)): 2.2 mg/l  
Exposure time: 72 h  
NOEC: (Selenastrum capricornutum (green algae)): 0.44 mg/l  
Exposure time: 72 h

Toxicity to fish (Chronic toxicity):  
NOEC (Oncorhynchus mykiss (rainbow trout)): > 1.3 mg/l  
Exposure time: 56 d  
GLP: no
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 0.96 mg/l Exposure time: 7 d

cumene:
Toxicity to fish: LC50 (Cyprinus carpio (Carp)): 4.8 mg/l Exposure time: 96 h
LC50 (Fish): 4.918 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 2.14 mg/l Exposure time: 48 h
Toxicity to algae: ErC50 (Desmodesmus subspicatus (Scenedesmus subspicatus)): 2.01 mg/l Exposure time: 72 h
NOEC (Desmodesmus subspicatus (Scenedesmus subspicatus)): 1.49 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity): NOEC (Danio rerio (zebra fish)): 0.38 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): NOEC (Daphnia magna (Water flea)): 0.35 mg/l Exposure time: 21 d

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

Persistence and degradability

Ingredients:

Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified:
Biodegradability: Concentration: 20 mg/l Result: Inherently biodegradable. Biodegradation: 74 % Exposure time: 28 d
1,2,4-Trimethylbenzene:
Biodegradability: Concentration: 100 mg/l
Biodegradation: 8 - 14 %
Exposure time: 28 d

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

xlenes:
Biodegradability: Result: Readily biodegradable.

Cumene:
Biodegradability: Concentration: 3 mg/l
Result: Readily biodegradable
Biodegradation: 70 %
Exposure time: 20 d
Chemical Oxygen Demand (COD): 1,130 mg/g
ThOD: 3,500 mg/g

Ethylbenzene:
Biodegradability: Result: Readily biodegradable.

Bioaccumulative potential

Ingredients:

1,2,4-Trimethylbenzene:
Bioaccumulation: Bioconcentration factor (BCF): 33 - 275
Concentration: 0.2 mg/l

xlenes:
Partition coefficient: n-octanol/water: Pow: 1,320 - 1,580
log Pow: 3.12 - 3.20

cumene:
Bioaccumulation: Bioconcentration factor (BCF): 94.69

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

**Mobility in soil**

**Ingredients:**

**chlorobenzene:**
Distribution among environmental compartments: log Koc: 2.4

**ethylbenzene:**
Distribution among environmental compartments: log Koc: 3.12

**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**

<table>
<thead>
<tr>
<th>IATA-DGR</th>
<th>IMDG-Code</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>UN/ID No.</strong></td>
<td>UN 1139</td>
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<td><strong>Proper shipping name</strong></td>
<td>Coating solution</td>
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<td><strong>Class</strong></td>
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<tr>
<td><strong>Packing group</strong></td>
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<tr>
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<td>Flammable Liquids</td>
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<td><strong>Packing instruction (cargo aircraft)</strong></td>
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<tr>
<td><strong>Packing instruction (passenger aircraft)</strong></td>
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<td><strong>EmS Code</strong></td>
<td>F-E, S-E</td>
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</tbody>
</table>
SAFETY DATA SHEET

Chlorinated Polyolefin 730-1 (20% Solids in Aromatic 100)

Marine pollutant : yes

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 : NA 1993
Proper shipping name : Combustible liquid, n.o.s.

Class : CBL
Packing group : III
Labels : None
ERG Code : 128
Marine pollutant : no

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>
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</thead>
<tbody>
<tr>
<td>chlorobenzene</td>
<td>108-90-7</td>
<td>100</td>
<td>1,000</td>
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</table>

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
Fire Hazard
Acute Health Hazard
Chronic Health Hazard

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

1,2,4-Trimethylbenzene 95-63-6 20 - 30 %
chlorobenzene 108-90-7 1 - 5 %
xylenes 1330-20-7 1 - 5 %
cumene 98-82-8 1 - 5 %
ethylbenzene 100-41-4 0.1 - 1 %

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
SAFETY DATA SHEET

Chlorinated Polyolefin 730-1 (20% Solids in Aromatic 100)

SECTION 16. OTHER INFORMATION

Full text of other abbreviations
AIICS - 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; 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; RO - 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:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
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<tbody>
<tr>
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Special hazard.

HMIS® IV:

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<th>Rating</th>
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<tr>
<td>FLAMMABILITY</td>
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</tr>
<tr>
<td>PHYSICAL HAZARD</td>
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</tr>
</tbody>
</table>

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.

Revision Date: 10/12/2017

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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