

# SAFETY DATA SHEET

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

**Product identifier**

**Product name:** X-100 Application Solution

**Product No.:** 00000000050149352

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

**Identified uses:** Cleaning agent

**Uses advised against:** None known.

**Details of the supplier of the safety data sheet****Manufacturer / Supplier**

CPFilms Inc.

A Subsidiary of Eastman Chemical Company

575 Maryville Centre Drive

St. Louis, MO 63141-5813 US

Visit our website at [www.EASTMAN.com](http://www.EASTMAN.com) or email [emnmsds@eastman.com](mailto:emnmsds@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:****Health hazards**

Serious eye damage/eye irritation      Category 2A

**OSHA Specified Hazards:**      not applicable

**Warning label items including precautionary statement:****Pictogram:**

**Signal words:**      WARNING!

**Hazard Statement(s):**      H319: Causes serious eye irritation.

**Precautionary statement:**

**Prevention:** P264: Wash hands thoroughly after handling.  
P280: Wear eye protection/face protection.

**Response:** P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

**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	90 - 98%	CAS-No.: 7732-18-5	
polyoxyethylene monoocetylphenyl ether	1 - 2%	CAS-No.: 9036-19-5	

\* 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 occur.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.

**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:** May irritate and cause redness and pain.

**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. Foam. Dry chemicals. Carbon Dioxide.

**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. Large Spillages: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

**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:** Do not get in eyes. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after handling.

**Conditions for safe storage, including any incompatibilities:** Keep container closed.

**Specific end use(s):** Cleaning agent

**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.

## 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:** Wear safety glasses with side shields (or goggles).

### 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

<b>Physical State:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>Odor Threshold:</b>	Not determined.
<b>pH:</b>	2.1 - 3.1 (100 °C)
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	none, noncombustible liquid
<b>Evaporation Rate:</b>	Not determined.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	Not determined.
<b>Vapor density (air=1):</b>	No data available.
<b>Specific Gravity:</b>	1.002

**Solubility(ies)**

<b>Solubility in Water:</b>	No data available.
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	Thermal stability not tested. Low stability hazard expected at normal operating temperatures.
<b>Dynamic Viscosity:</b>	No data available.
<b>Kinematic viscosity:</b>	Not determined.
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

**SECTION 10: Stability and reactivity**

<b>Reactivity:</b>	None known. Materials containing similar structural groups are normally stable.
<b>Chemical stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	None known.
<b>Conditions to avoid:</b>	None at ambient temperatures.
<b>Incompatible materials:</b>	Strong oxidizing agents.
<b>Hazardous decomposition products:</b>	Carbon Dioxide. Carbon Monoxide.

**SECTION 11: Toxicological information****Information on likely routes of exposure**

<b>Inhalation:</b>	None known.
<b>Ingestion:</b>	None known.
<b>Skin contact:</b>	None known.
<b>Eye contact:</b>	Causes serious eye irritation.

**Information on toxicological effects****Acute Toxicity****Oral**

<b>Product:</b>	No data available.
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**Specified substance(s)**

Poly(oxy-1,2-ethanediyl), alpha-[(1,1,3,3- tetramethylbutyl)phenyl]- omega-hydroxy-	Oral LD-50: (Rat): > 1,900 mg/kg
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**Dermal**

<b>Product:</b>	No data available.
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**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Inhalation**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Skin corrosion/irritation:**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Serious eye damage/eye  
irritation:**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

(Rabbit): Severe

**Respiratory or skin  
sensitization:**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Mutagenicity****In vitro**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**In vivo**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Specific target organ toxicity - single exposure**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Specific target organ toxicity - repeated exposure**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Aspiration hazard**

**Product:** No data available.

**Specified substance(s)**

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

**Other adverse effects:** No data available.

## SECTION 12: Ecological information

### Toxicity

#### Acute toxicity

##### Fish

**Product:** No data available.

##### Specified substance(s)

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

LOEC (Rainbow Trout, 96 h): 7.2 mg/l

##### Aquatic invertebrates

**Product:** No data available.

##### Specified substance(s)

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

LC-50 (Water Flea, 48 h): 7.5 - 9.8 mg/l

#### Chronic Toxicity

##### Fish

**Product:** No data available.

##### Specified substance(s)

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

##### Aquatic invertebrates

**Product:** No data available.

##### Specified substance(s)

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.

#### Toxicity to Aquatic Plants

**Product:** No data available.

##### Specified substance(s)

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

No data available.



**Persistence and degradability****Biodegradation****Product:** No data available.**Specified substance(s)**Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy- No data available.**Biological Oxygen Demand:****Product** No data available.**Specified substance(s)**Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy- No data available.**Chemical Oxygen Demand:****Product** No data available.**Specified substance(s)**Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy- No data available.**BOD/COD ratio****Product** No data available.**Specified substance(s)**Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy- No data available.**Bioaccumulative potential****Product:** No data available.**Specified substance(s)**Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy- No data available.**Mobility in soil:**

No data available.

**Known or predicted distribution to environmental compartments**Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy- No data available.**Results of PBT and vPvB  
assessment:**

No data available.

Poly(oxy-1,2-ethanediyl),  
alpha-[(1,1,3,3-  
tetramethylbutyl)phenyl]-  
omega-hydroxy-

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. Since emptied containers retain product residue, follow label warnings even after container is emptied.

### 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 not regulated

#### 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 MSDS contains all the information required by the Controlled Products Regulations.**

**WHMIS (Canada) Status:** controlled

**WHMIS (Canada) Hazard Classification:** D/2/B

**SARA 311-312 Hazard Classification(s):**  
immediate (acute) health hazard

**US EPCRA (SARA Title III) Section 313 - Toxic Chemical List**  
NONE

**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):** This product is listed in the Handbook or has been approved in Japan by new substance notification.

**ECL (Korean Toxic Substances Control Act):** This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

**Philippines Inventory (PICCS):** All components of this product are listed on the Philippine inventory or otherwise comply with PICCS.

**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 - 2, Flammability - 0, 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:** 07/14/2014

**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.