

SAFETY DATA SHEET

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

1.1 Product identifier

Product name: Film-On Concentrate

Product No.: 35977-00, 50149218

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

Identified uses: Cleaning agent

Uses advised against: None known.

1.3 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 emnmsds@eastman.com

National Supplier

Eastman Chemical B.V.
Fascinatio Boulevard 602-614
2909 Capelle aan den IJssel
The Netherlands
Telephone: (31) 10 2402 111
Fax: (31) 10 2402 100

1.4 Emergency telephone number:

For emergency health, safety, and environmental information: telephone 800-EASTMAN or 423 229-4511 in the United States; or +44 (0)1235 239 670 in Europe.

For emergency transportation information, call +44(0)1235 239 670; or 800 964214 in England; 01800559700 in Eire; or 423-229-4511 in the United States. Identify the call as a transportation emergency.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Hazard summary

Physical Hazards: Not classified as hazardous.

Health Hazards

Inhalation: None known.

Eye contact: None known.

Skin Contact: None known.

Ingestion: None known.

Other Health Effects: None known.

Environmental hazards: None known.

2.2 Label Elements Not applicable

2.3 Other hazards: Contains: Amides, coco, N-[3-(dimethylamino)propyl]. May produce an allergic reaction.

SECTION 3: Composition/information on ingredients

3.1 / 3.2 Substances / Mixtures

General information:

Chemical name	Concentration	Additional identification	Notes
water	85 - 95%	CAS-No.: 7732-18-5 EC No.: 231-791-2	
Sorbitan monolaurate, ethoxylated	1 - 10%	CAS-No.: 9005-64-5 EC No.: 500-018-3	
Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate	1 - 5%	CAS-No.: 25446-78-0 EC No.: 246-985-2	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	1 - 5%	CAS-No.: 61789-40-0 EC No.: 263-058-8	
Amides, coco, N-[3-(dimethylamino)propyl]	<1%	CAS-No.: 68140-01-2 EC No.: 268-771-8	

Explanation for Notes (if applicable):

* 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).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

Chemical name	Classification		Notes
water	DSD:	This substance is not classified according to Directive 67/548/EEC.	
	CLP:	NOT CLASS ,	
Sorbitan monolaurate, ethoxylated	DSD:	This substance is not classified according to Directive 67/548/EEC.	
	CLP:	NOT CLASS ,	
Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate	DSD:	Xi, R38, R41, R52/53	
	CLP:	Skin Corr. 2, H315; Eye Dam.1, H318; Aquatic Chronic3, H412	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	DSD:	Xi, R41	
	CLP:	Eye Dam. 1, H318; Aquatic Chronic3, H412	
Amides, coco, N-[3-(dimethylamino)propyl]	DSD:	Xn, C, N, R22, R35, R43, R50	
	CLP:	Acute Tox. 4, H302; Skin Corr.1A, H314; Eye Dam.1, H318; Skin Sens.1A, H317; Aquatic Acute1, H400; Aquatic Chronic2, H411	

DSD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.:

The full text for all R- and H-phrases is displayed in section 16.

SECTION 4: First aid measures

4.1 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: Get medical attention if symptoms occur.

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

4.3 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.

5.1 Extinguishing media

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

Unsuitable extinguishing media: None known.

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

5.3 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

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

6.2 Environmental Precautions: Avoid release to the environment.

6.3 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:

7.1 Precautions for safe handling: No special precautions are necessary beyond normal good hygiene practices. See Section 8 of the MSDS for additional personal protection advice when handling this product.

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

7.3 Specific end use(s): Cleaning agent

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters

Occupational Exposure Limits

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

8.2 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: If contact is likely, safety glasses with side shields are recommended.

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. 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

9.1 Information on basic physical and chemical properties

Appearance

Physical State:	Liquid
Form:	Liquid
Color:	opaque, Pale yellow
Odor:	Odorless
Odor Threshold:	Not determined.
pH:	7 - 8
Boiling Point:	100 °C
Flash Point:	This product is not flammable.
Evaporation Rate:	Not determined.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)-:	No data available.
Flammability Limit - Lower (%)-:	No data available.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Specific Gravity:	1,002
Solubility(ies)	
Solubility in Water:	Miscible with water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	Thermal stability not tested. Low stability hazard expected at normal operating temperatures.
Dynamic Viscosity:	No data available.
Kinematic viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	None known. Materials containing similar structural groups are normally stable.
10.2 Chemical Stability:	Not fully evaluated.
10.3 Possibility of Hazardous Reactions:	None known.
10.4 Conditions to Avoid:	None at ambient temperatures.
10.5 Incompatible Materials:	Strong oxidizing agents.
10.6 Hazardous Decomposition Products:	Carbon Monoxide. Carbon Dioxide. ammonia

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

Inhalation: None known.

Ingestion: None known.

Skin Contact: None known.

Eye contact: None known.

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

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated Oral LD-50: (Rat): > 3.200 mg/kg

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Dermal

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated Dermal LD-50: (Guinea Pig): > 20 ml/kg

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Inhalation

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, No data available.

ethoxylated	
Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate	No data available.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	No data available.
Amides, coco, N-[3-(dimethylamino)propyl]	No data available.

Repeated Dose Toxicity

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated	No data available.
Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate	No data available.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	No data available.
Amides, coco, N-[3-(dimethylamino)propyl]	No data available.

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated	(Guinea Pig, 24 h): slight
Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate	No data available.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	No data available.
Amides, coco, N-[3-(dimethylamino)propyl]	No data available.

Serious Eye Damage/Eye Irritation:

Product: Not classified.
 Acute Eye Irritation / Corrosion (Rabbit): none

Respiratory or Skin

Sensitization:

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

In vivo

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Carcinogenicity

Product: No data available.

Reproductive Toxicity**Toxicity to reproduction**

Product: No data available.

Developmental Toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

Sorbitan monolaurate,
ethoxylated No data available.

Sodium 2-[2-[2-
(tridecyloxy)ethoxy]ethoxy]et
hyl sulphate No data available.

1-Propanaminium, 3-amino-
N-(carboxymethyl)-N,N-
dimethyl-, N-coco acyl
derivs., hydroxides, inner
salts No data available.

Amides, coco, N-[3-
(dimethylamino)propyl] No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

Sorbitan monolaurate,
ethoxylated No data available.

Sodium 2-[2-[2-
(tridecyloxy)ethoxy]ethoxy]et
hyl sulphate No data available.

1-Propanaminium, 3-amino-
N-(carboxymethyl)-N,N-
dimethyl-, N-coco acyl
derivs., hydroxides, inner
salts No data available.

Amides, coco, N-[3-
(dimethylamino)propyl] No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated	No data available.
Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate	No data available.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	No data available.
Amides, coco, N-[3-(dimethylamino)propyl]	No data available.

Other Adverse Effects: No data available.

SECTION 12: Ecological information

12.1 Toxicity

Acute toxicity

Fish

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated	No data available.
Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate	No data available.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	No data available.
Amides, coco, N-[3-(dimethylamino)propyl]	No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated	No data available.
Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate	No data available.
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-

(dimethylamino)propyl]

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Biological Oxygen Demand:

Product No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

Chemical Oxygen Demand:

Product No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

BOD/COD Ratio

Product No data available.

Specified substance(s)

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

12.3 Bioaccumulative Potential

Product: Not applicable

12.4 Mobility in Soil: Not applicable

12.5 Results of PBT and vPvB assessment: No data available.

Sorbitan monolaurate, ethoxylated No data available.

Sodium 2-[2-[2-(tridecyloxy)ethoxy]ethoxy]ethyl sulphate No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts No data available.

Amides, coco, N-[3-(dimethylamino)propyl] No data available.

12.6 Other Adverse Effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: The generation of waste should be avoided or minimized wherever possible. Comply with requirements of waste disposal legislation and any local authority requirements.

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

European Waste Codes

Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

The following Waste Codes are only suggestions. Any waste marked with an asterisk (*) is considered as a hazardous waste pursuant to Directive 91/689/EEC on hazardous waste, and subject to the provisions of that Directive unless Article 1(5) of that Directive applies.

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.

ADR/RID

Class not regulated

IMDG - International Maritime Dangerous Goods Code

Class not regulated

IATA

Class not regulated

SECTION 15: Regulatory information

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

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): This product is listed on the DSL. Any impurities present in this product are exempt from listing. In Canada, its use is restricted to research and development purposes only.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies 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.

Philippines Inventory (PICCS): This product is listed on the Philippine Inventory or otherwise complies 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).

15.2 Chemical safety assessment: None.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Wording of the R-phrases and H-statements in section 2 and 3:

Xi = Irritant
R38 = Irritating to skin.
R41 = Risk of serious damage to eyes.
R52/53 = Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R41 = Risk of serious damage to eyes.
Xn = Harmful
C = Corrosive
N = Dangerous for the environment
R22 = Harmful if swallowed.
R35 = Causes severe burns.
R43 = May cause sensitisation by skin contact.
R50 = Very toxic to aquatic organisms.

NOT CLASS = Not classified.

Skin Corr. = Skin Corrosion/Irritation
Eye Dam. = Serious Eye Damage/Eye Irritation
Aquatic Chronic = Chronic hazards to the aquatic environment
2 = Category 2
1 = Category 1
3 = Category 3
H315= Causes skin irritation.
H318= Causes serious eye damage.
H412= Harmful to aquatic life with long lasting effects.

Eye Dam. = Serious Eye Damage/Eye Irritation
Aquatic Chronic = Chronic hazards to the aquatic environment
1 = Category 1
3 = Category 3
H318= Causes serious eye damage.
H412= Harmful to aquatic life with long lasting effects.

Acute Tox. = Acute toxicity
Skin Corr. = Skin Corrosion/Irritation
Eye Dam. = Serious Eye Damage/Eye Irritation
Skin Sens. = Skin sensitizer
Aquatic Acute = Acute hazards to the aquatic environment
Aquatic Chronic = Chronic hazards to the aquatic environment
4 = Category 4
1A = Category 1A
1 = Category 1
1A = Category 1A
1 = Category 1
2 = Category 2
H302= Harmful if swallowed.
H314= Causes severe skin burns and eye damage.
H318= Causes serious eye damage.
H317= May cause an allergic skin reaction.
H400= Very toxic to aquatic life.
H411= Toxic to aquatic life with long lasting effects.

Training information:

No data available.

Issue Date:

10.12.2014

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.