



**Canada Colors and Chemicals Limited**

**152 Kennedy Road South  
Brampton, Ontario  
Canada  
L6W 3G4**

**General Inquiry Number: (905) 459-1232**

**Material Safety Data Sheet  
Attached**

# Material Safety Data Sheet

Version 1.7  
Revision Date 07/24/2014

SDS Number 30000021443  
Print Date 09/06/2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TOMADOL<sup>®</sup> 1-7 SURFACTANT

Product Use Description : Surfactant

Manufacturer/Importer/Distributor : Air Products and Chemicals, Inc  
7201 Hamilton Blvd.  
Allentown, PA 18195-1501  
GST No. 123600835 RT0001  
QST No. 102753981 TQ0001

Telephone : 1-610-481-4911 Corporate  
1-800-345-3148 Chemicals Cust Serv  
1-800-752-1597 Gases/Electronics Cust Serv

Emergency telephone number (24h) : 800-523-9374 USA  
+1 610 481 7711 International

This product is distributed by  
Canada Colors and Chemicals Limited  
General Inquiry: (905) 459-1232  
24 Hour Emergency: (416) 444-2112  
CCC: Product Code: 640575  
CCC: Product Name: TOMADOL 1-7



## 2. HAZARDS IDENTIFICATION

### Emergency Overview

Moderate eye irritant.  
Mild respiratory tract irritant.  
Mild skin irritant.  
Risk of serious damage to eyes.  
Harmful by inhalation.

### Potential Health Effects

Inhalation : May cause nose, throat, and lung irritation. Inhalation of vapors and/or aerosols in high concentration may cause irritation of respiratory system. Harmful if inhaled.

Eye contact : Causes eye irritation.

Skin contact : Mild skin irritation.

Ingestion :

Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater.

### Exposure Guidelines

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- Target Organs : Eyes.
- Symptoms : Repeated and/or prolonged exposure to low concentrations of vapors and/or aerosols may cause: Sore throat.

## Aggravated Medical Condition

Eye disease. Asthma.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Poly(oxy-1,2-ethanediyl), a-undecyl-w-hydroxy-	34398-01-1	100 %

CHEMICAL FAMILY: Ethoxylated Alcohol

## 4. FIRST AID MEASURES

- General advice : Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact : Rinse immediately with plenty of water also under the eyelids for at least 20 minutes. Remove contact lenses.
- Skin contact : Wash off immediately with plenty of water for at least 20 minutes. Wash off with soap and water. Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay.
- Ingestion : Never give anything by mouth to an unconscious person. If a person vomits when lying on his back, place him in the recovery position. Prevent aspiration of vomit. Turn victim's head to the side.
- Inhalation : If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. Move to fresh air.

## 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Alcohol-resistant foam.  
Carbon dioxide (CO<sub>2</sub>).  
Dry chemical.  
Dry sand.  
Limestone powder.
- Specific hazards : Incomplete combustion may form carbon monoxide. Burning produces noxious and toxic fumes. Downwind personnel must be evacuated.
- Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

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## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear suitable protective clothing, gloves and eye/face protection. Use self-contained breathing apparatus and chemically protective clothing. Evacuate personnel to safe areas.
- Environmental precautions : Construct a dike to prevent spreading.
- Methods for cleaning up : Contact Air Products' Emergency Response Center for advice. Approach suspected leak areas with caution. Place in appropriate chemical waste container.
- Additional advice : Open enclosed spaces to outside atmosphere. If possible, stop flow of product.

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## 7. HANDLING AND STORAGE

### Handling

Emergency showers and eye wash stations should be readily accessible. Adhere to work practice rules established by government regulations. Use only in well-ventilated areas. Avoid contact with eyes. Avoid breathing vapors and/or aerosols. Use personal protective equipment. When using, do not eat, drink or smoke.

### Storage

Keep away from direct sunlight. Overheating of an ethoxylate stored under air should be avoided. When an ethoxylate is vigorously mixed in the presence of air or oxygen at temperatures >125 F (50 C), it can degrade product quality. Storage under an inert atmosphere is recommended.  
Keep containers tightly closed in a dry, cool and well-ventilated place.

Storage Temperature : 65 - 100 °F (18.33 - 37.77 °C)

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Engineering measures

Provide readily accessible eye wash stations and safety showers.  
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

### Personal protective equipment

- Respiratory protection : Wear appropriate respirator when ventilation is inadequate.
- Hand protection : Nitrile rubber.  
Polyvinyl Alcohol Gloves (PVA).  
Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection : Chemical resistant goggles must be worn.

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Skin and body protection : Long sleeve shirts and trousers without cuffs.

Special instructions for protection and hygiene : Wash hands at the end of each workshift and before eating, smoking or using the toilet. Provide readily accessible eye wash stations and safety showers.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid.

Color : Colorless.

Odor : Mild.

Relative density : 0.996

Boiling point/range : > 572 °F (> 300 °C)

Melting point/range : 39 - 68 °F (3.88 - 20 °C)

Flash point : 165 °C

Water solubility : Completely soluble.

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## 10. STABILITY AND REACTIVITY

Chemical Stability : Stable under normal conditions.

Materials to avoid : Copper alloys  
Strong acids.  
Oxidizing agents.

Hazardous decomposition products : Carbon monoxide.  
Carbon dioxide (CO<sub>2</sub>).

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## 11. TOXICOLOGICAL INFORMATION

### Acute Health Hazard

Ingestion : No data is available on the product itself.

Ingestion - Components  
Poly(oxy-1,2-ethanediyl),  
a-undecyl-w-hydroxy- LD50 : 1,000 - 2,000 mg/kg Species : Rat.

Inhalation : No data is available on the product itself.

Dermal : No data is available on the product itself.

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Eye irritation/corrosion : Moderate eye irritation.

Skin irritation/corrosion : Mild skin irritation.

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Aquatic toxicity : No data is available on the product itself.

Toxicity to fish - Components  
Poly(oxy-1,2-ethanediyl),  
a-undecyl-w-hydroxy-

LC50 (96 h) : 1 - 10 mg/l

Species : Fathead  
minnow (Pimephales  
promelas).

Toxicity to daphnia - Components  
Poly(oxy-1,2-ethanediyl),  
a-undecyl-w-hydroxy-

EC50 (48 h) : 1 - 10 mg/l

Species : Daphnia  
magna.

Toxicity to algae - Components  
Poly(oxy-1,2-ethanediyl),  
a-undecyl-w-hydroxy-

EC50 (96 h) : 1 - 10 mg/l

Species : Algae.

Toxicity to other organisms : No data available.

### Persistence and degradability

Biodegradability : Readily biodegradable, as defined by OECD, substance that degrades > 60-70% within a 10 day window over 28 days.

Mobility : No data available.

Bioaccumulation : No data is available on the product itself.

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## 13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products : Contact supplier if guidance is required.

Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

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## 14. TRANSPORT INFORMATION

### DOT

Not dangerous goods

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## IATA

Not dangerous goods

## IMDG

Not dangerous goods

## TDG

Not dangerous goods

### Further Information

Not classified as dangerous in the meaning of transport regulations. The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact an Air Products customer service representative.

## 15. REGULATORY INFORMATION

OSHA Hazard Communication Standard (29 CFR 1910.1 200) Hazard Class(es)  
Irritant.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS inventory or polymer substance, monomers included on EINECS inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level  
None.

WHMIS Hazard Classification  
Toxic Material Causing Other Toxic Effects

## 16. OTHER INFORMATION

### HMIS Rating

Health : 2  
Flammability : 1  
Physical hazard : 0

Prepared by : Air Products and Chemicals, Inc. Global EH&S Product Safety Department

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For additional information, please visit our Product Stewardship web site at  
<http://www.airproducts.com/productstewardship/>

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