

# Safety Data Sheet

Version 2.1  
Revision Date 01/26/2015

SDS Number 300000021389  
Print Date 05/17/2015

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : TOMADOL<sup>®</sup> 25-3 SURFACTANT

Product Use Description : Detergent

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

## 2. HAZARDS IDENTIFICATION

GHS classification

Serious Eye Damage - Category 1

GHS label elements

Hazard pictograms/symbols



Signal Word: Danger

Hazard Statements:

H318:Causes serious eye damage.

Precautionary Statements:

Prevention : P280:Wear eye protection/face protection.

# Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

SDS Number 300000021389

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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.  
P310 :Immediately call a POISON CENTRE or doctor/physician.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
ALCOHOLS, C12-15, ETHOXYLATED	68131-39-5	100 %

CHEMICAL FAMILY: Alcohol Ethoxylate

## 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 for at least 15 minutes.

Skin contact : Wash with water and soap as a precaution.

Ingestion : Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation : Move to fresh air.

Inhalation : No data available.

## 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Carbon dioxide (CO2).  
Dry chemical.  
Dry sand.  
Limestone powder.

Specific hazards : Incomplete combustion may form carbon monoxide.

Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures : Evacuate personnel to safe areas.

# Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

SDS Number 300000021389

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- Environmental precautions : Construct a dike to prevent spreading.
- Methods for cleaning up : Place in appropriate chemical waste container.
- Additional advice : If possible, stop flow of product.

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## 7. HANDLING AND STORAGE

### Handling

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.

Storage Temperature : 50 - 100 F (10 - 37.78 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 : Not required for properly ventilated areas.

Hand protection : Neoprene gloves.  
Nitrile rubber.  
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 safety glasses.

Skin and body protection : No specific recommendation.

Special instructions for protection and hygiene : Provide readily accessible eye wash stations and safety showers.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

# Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

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Appearance	: Liquid. Hazy.
Odor	: Mild.
Odor threshold	: No data available.
pH	: No data available.
Melting point/range	: 36 - 52 °F (2.22 - 11.1 °C)
Boiling point/range	: > 500 °F (> 260 °C)
Flash point	: 315 °F (157.22 °C)
Evaporation rate	: No data available.
Flammability (solid, gas)	: Not applicable.
Upper/lower explosion/flammability limit	: Not applicable.
Vapor pressure	: 0.10 mmHg at 100 °F (37.78 °C)
Water solubility	: Insoluble.
Relative vapor density	: Not applicable.
Relative density	: 0.922
Partition coefficient (n-octanol/water)	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Viscosity	: No data available.
Molecular Weight	: No data available.

## 10. STABILITY AND REACTIVITY

Chemical Stability	: Stable under normal conditions.
Conditions to avoid	: No data available.
Materials to avoid	: Reactive metals (e.g. sodium, calcium, zinc etc.). Materials reactive with hydroxyl compounds. Copper alloys

# Safety Data Sheet

Version 2.1

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SDS Number 300000021389

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Strong acids.

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

Possibility of hazardous Reactions/Reactivity : No data available.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Likely routes of exposure

Acute toxicity

Acute Oral Toxicity : LD50 : > 5,000 mg/kg Species : Rat.

Inhalation : No data is available on the product itself.

Acute Dermal Toxicity : LD50 : > 2,000 mg/kg Species : Rat.  
No deaths observed.

Skin corrosion/irritation : Slight irritation., Rabbit skin.

Serious eye damage/eye irritation : Moderate eye irritation.

Sensitization. : This product has been tested and shown not to cause sensitization in guinea pigs.

Chronic toxicity or effects from long term exposures

Carcinogenicity : No data available.

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

Germ cell mutagenicity : No data is available on the product itself.

Specific target organ systemic toxicity (single exposure) : No data available.

Specific target organ systemic toxicity (repeated exposure) : No data available.

Aspiration hazard : No data available.

Delayed and Immediate Effects and Chronic Effects from Short and Long Term Exposure

# Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

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

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity effects

Aquatic toxicity : EC50 (48 h) : 0.14 mg/l Species : Daphnia magna.  
ErC50 (96 h) : 0.75 mg/l Species : Selenastrum capricornutum  
(Pseudokirchneriella subcapitata)

Toxicity to fish - Components  
ALCOHOLS, C12-15, ETHOXYLATED LC50 (96 h) : 1.4 mg/l Species : Fathead  
minnow (Pimephales  
promelas).

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

# Safety Data Sheet

Version 2.1

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## IATA

UN/ID No. : UN3082  
Proper shipping name : Environmentally hazardous substance, liquid, n.o.s., (Alcohols C12-15 ethoxylated)  
Class or Division : 9  
Packing group : III  
Label(s) : 9  
Marine Pollutant : Yes

\*\* NOTE: This product contains a substance that: 1) is regulated as a Marine Pollutant, or 2) meets the definition of toxic to the aquatic environment.

## IMDG

UN/ID No. : UN3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Alcohols C12-15 ethoxylated)  
Class or Division : 9  
Packing group : III  
Label(s) : 9  
Marine Pollutant : Yes

\*\* NOTE: This product contains a substance that: 1) is regulated as a Marine Pollutant, or 2) meets the definition of toxic to the aquatic environment.

## TDG

UN/ID No. : UN3082  
Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (Alcohols C12-15 ethoxylated)  
Class or Division : 9  
Packing group : III  
Label(s) : 9  
Marine Pollutant : Yes

\*\* NOTE: This product contains a substance that: 1) is regulated as a Marine Pollutant, or 2) meets the definition of toxic to the aquatic environment.

## Further Information

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.

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## 15. REGULATORY INFORMATION

# Safety Data Sheet

Version 2.1

Revision Date 01/26/2015

SDS Number 300000021389

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Toxic Substance Control Act (TSCA) 12(b) Component(s):

None.

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 312 (40 CFR 370) Hazard Classification  
Acute Health Hazard

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

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

This product meets the criteria of the US EPA Design for Environment (DfE) Surfactant screen and is listed on CleanGredients.

## 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

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

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



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