

## 1 - Product and Company Information

ProductName POLY(OCTADECYL METHACRYLATE), SOLUTION IN TOLUENE, AVERAGE MW CA. 170,000 (GPC)

## 2 - Hazards Identification

### SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT

Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Vapors may cause drowsiness and dizziness.

## 3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
POLY(OCTADECYL METHACRYLATE), SOLUTION IN TOLUENE, AVERAGE MW CA. 170,000 (GPC)	None	None	None

Ingredient Name	Percent	CAS #	EC no	Annex I
TOLUENE 108-88-3 203-625-9 Repr. Cat.3 Symbols: F-Xn R-Phrases: 11-38-48/20-63-65-67				None

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POLY(OCTADECYL METHACRYLATE)	25639-21-8	None	None
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## 4 - First Aid Measures

### AFTER INHALATION

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

### AFTER SKIN CONTACT

In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.

### AFTER EYE CONTACT

In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

### AFTER INGESTION

If swallowed, do not induce vomiting; call a physician immediately.

## 5 - Fire Fighting Measures

### EXTINGUISHING MEDIA

Suitable: Carbon dioxide, dry chemical powder, or appropriate foam.

### SPECIAL RISKS

Specific Hazard(s): Flammable liquid. Emits toxic fumes under fire conditions.  
Explosion Hazards: Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions.

### SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6 - Accidental Release Measures

### PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL

Evacuate area. Shut off all sources of ignition. Use nonsparking tools.

### PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Wear self-contained breathing apparatus, rubber boots, and heavy rubber gloves.

### METHODS FOR CLEANING UP

Cover with dry-lime, sand, or soda ash. Place in covered containers using non-sparking tools and transport outdoors. Ventilate area and wash spill site after material pickup is complete.

## 7 - Handling and Storage

### HANDLING

Directions for Safe Handling: Do not breathe vapor. Do not get in eyes, on skin, on clothing. Avoid prolonged or repeated exposure.

### STORAGE

Conditions of Storage: Keep tightly closed. Keep away from heat, sparks, and open flame.

## 8 - Exposure Controls / Personal Protection

### ENGINEERING CONTROLS

Safety shower and eye bath. Use nonsparking tools. Mechanical exhaust required.

### GENERAL HYGIENE MEASURES

Remove and wash contaminated clothing promptly. Wash thoroughly after handling.

### EXPOSURE LIMITS

Country Source	Type	Value
Poland	NDS	100 MG/M3
Poland	NDSCh	350 MG/M3
Poland	NDSP	-

### EXPOSURE LIMITS - DENMARK

Source	Type	Value
OEL	TWA	94 mg/m3 25 ppm

Remarks: H

### EXPOSURE LIMITS - GERMANY

Source	Type	Value
TRGS 900	OEL	190 mg/m3 50 ppm

Remarks: 4

Remarks: Y

### EXPOSURE LIMITS - NORWAY

Source	Type	Value
OEL	OEL	94 mg/m3 25 ppm

Remarks: H

### EXPOSURE LIMITS - SWEDEN

Source	Type	Value
LLV (Level)	LLV (Level)	200 mg/m3 50 ppm

Remarks: H

### EXPOSURE LIMITS - SWITZERLAND

Source	Type	Value
OEL OEL	OEL OEL	190 mg/m3 50 ppm

Remarks: M C H\*

### EXPOSURE LIMITS - UNITED KINGDOM

Source	Type	Value
OEL OEL	OEL OEL	191 mg/m3 50 ppm
OEL	STEL	574 mg/m3 150 ppm

Remarks: Skin

### PERSONAL PROTECTIVE EQUIPMENT

Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator.  
Hand Protection: Compatible chemical-resistant gloves.  
Eye Protection: Chemical safety goggles.

## 9 - Physical and Chemical Properties

Appearance	Physical State: Liquid	
Property	Value	At Temperature or Pressure
pH	N/A	
BP/BP Range	110.6 °C	760 mmHg
MP/MP Range	N/A	
Flash Point	4 °C	Method: closed cup
Flammability	N/A	
Autoignition Temp	535 °C	
Oxidizing Properties	N/A	
Explosive Properties	N/A	
Explosion Limits	Lower: 1.2 % Upper: 7 %	
Vapor Pressure	21.75 mmHg	20 °C
Partition Coefficient	N/A	
Viscosity	N/A	
Vapor Density	N/A	
Saturated Vapor Conc.	N/A	
Evaporation Rate	N/A	
Bulk Density	N/A	
Decomposition Temp.	N/A	
Solvent Content	N/A	
Water Content	N/A	
Surface Tension	N/A	
Conductivity	N/A	
Miscellaneous Data	N/A	
Solubility	N/A	

## 10 - Stability and Reactivity

### STABILITY

Stable: Stable.  
Materials to Avoid: Strong oxidizing agents.

### HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide.

### HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

## 11 - Toxicological Information

### ACUTE TOXICITY

LD50  
Oral  
Rat  
> 5,580 mg/kg  
LD50  
Oral  
rat, male  
\*  
LC50  
Inhalation  
Rat  
28,100 mg/m3  
4 H  
LC50  
Inhalation  
Rat  
12,500.0 - 28,800.0 mg/m3  
4 H  
LD50  
Skin  
Rabbit  
12,124 mg/kg

### IRRITATION DATA

Eyes  
Rabbit  
Remarks: Moderate irritation effect  
Skin  
Rabbit  
Remarks: Moderate irritation effect

### SIGNS AND SYMPTOMS OF EXPOSURE

Exposure can cause: Lung irritation, chest pain, and edema which may be fatal. Inhalation studies on toluene have demonstrated the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotum in animals.

### ROUTE OF EXPOSURE

Skin Contact: Causes skin irritation.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: Causes eye irritation.  
Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.  
Ingestion: May be harmful if swallowed.

### TARGET ORGAN INFORMATION

Brain. Liver. Kidneys. Bladder.

### CONDITIONS AGGRAVATED BY EXPOSURE

May cause nervous system disturbances.

### CHRONIC EXPOSURE - CARCINOGEN

Result: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification.

### CHRONIC EXPOSURE - TERATOGEN

Result: May cause congenital malformation in the fetus.

## 12 - Ecological Information

### ECOTOXICOLOGICAL EFFECTS

Test Type: EC50 Algae  
Species: Chlorella vulgaris  
Time: 24 h  
Value: 245 mg/l

Test Type: EC50 Algae  
Species: Selenastrum capricornutum resp.  
Time: 24 h  
Value: 10 mg/l

Test Type: EC50 Daphnia  
Species: Daphnia magna  
Time: 24 h  
Value: 8 mg/l

Test Type: LC50 Fish  
Species: Lepomis macrochirus (Bluegill)  
Time: 96 h  
Value: 74.0 - 340.0 mg/l

Test Type: LC50 Fish  
Species: Onchorhynchus mykiss (Rainbow trout)  
Time: 96 h  
Value: 7.63 mg/l

## 13 - Disposal Considerations

### SUBSTANCE DISPOSAL

Contact a licensed professional waste disposal service to dispose of this material. Burn in a chemical incinerator equipped afterburner and scrubber but exert extra care in igniting material is highly flammable. Observe all federal, state, local environmental regulations.

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## 14 - Transport Information

### RID/ADR

UN#: 1993  
Class: 3  
PG: II  
Proper Shipping Name: Flammable liquid, n.o.s.

### IMDG

UN#: 1993  
Class: 3  
PG: II  
Proper Shipping Name: Flammable liquid, n.o.s.  
Marine Pollutant: No  
Severe Marine Pollutant: No  
Technical Name: Required

### IATA

UN#: 1993  
Class: 3  
PG: II  
Proper Shipping Name: Flammable liquid, n.o.s.  
Inhalation Packing Group I: No  
Technical Name: Required

## 15 - Regulatory Information

### CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES

INDICATION OF DANGER: F-Xn

Highly Flammable. Harmful.

R-PHRASES: 11-38-48/20-63-65-67

Highly flammable. Irritating to skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Vapors may cause drowsiness and dizziness.

S-PHRASES: 36/37-46-62

Wear suitable protective clothing and gloves. If swallowed, seek medical advice immediately and show this container or label. If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Caution: Substance not yet fully tested (EU). Caution: Substance

not yet fully tested (EU).

## COUNTRY SPECIFIC INFORMATION

### Germany

WGK: 2  
Self-Classification

## 16 - Other Information

For R&D use only. Not for drug, household or other uses.

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WARRANTY:  
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