



Material Safety Data Sheet

Poly(ethylene glycol), average M.W. 300

MSDS# 95007

Section 1 - Chemical Product and Company Identification

MSDS Name: Poly(ethylene glycol), average M.W. 300
Catalog Numbers: AC192220000, AC192220010, AC192220025, AC192220050, AC192220100
Synonyms: PEG.

Company Identification: Acros Organics BVBA
Janssen Pharmaceuticaaan 3a
2440 Geel, Belgium

Company Identification: (USA) Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

Risk Phrases:

CAS#: 25322-68-3
Chemical Name: Polyethylene glycol
%: 100
EINECS#: unlisted
Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols: None listed

Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Hygroscopic (absorbs moisture from the air). Causes eye and skin irritation. Target Organs: Kidneys, eyes, skin.

Potential Health Effects

Eye: Causes eye irritation.
Skin: Causes skin irritation. May be harmful if absorbed through the skin.
Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.
Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.
Chronic: May cause kidney damage.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do not induce vomiting. Get medical aid if irritation or symptoms occur.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: > 220 deg C (> 428.00 deg F)

Flash Point: > 180 deg C (> 356.00 deg F)

Explosion Limits: Not available
Lower:

Explosion Limits: Not available
Upper:

NFPA Rating: health: 2; flammability: 1; instability: 1;

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container. Store under an inert atmosphere.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Ethylene glycol	100 mg/m ³ Ceiling (aerosol only)	none listed	none listed
Polyethylene glycol	none listed	none listed	none listed

OSHA Vacated PELs: Ethylene glycol: None listed Polyethylene glycol: None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Clear liquid

Color: light yellow

Odor: slight characteristic odor

pH: 5.0 - 7.0(10% aq.sol.)

Vapor Pressure: < 0.01 mm Hg @ 20 deg C

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: 85 - 100 mPa @ 20 deg C

Boiling Point: Not available

Freezing/Melting Point: -15 - 10 deg C

Decomposition Temperature: Not available

Solubility in water: Soluble

Specific Gravity/Density: 1.120

Molecular Formula: Not applicable.

Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability:

Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid:

Incompatible materials, excess heat, exposure to moist air or water.

Incompatibilities with Other Materials

Strong oxidizing agents, strong acids, strong bases.

Hazardous Decomposition Products

Carbon monoxide, carbon dioxide.

Hazardous Polymerization

Will not occur.

Section 11 - Toxicological Information

CAS# 107-21-1: KW2975000

CAS# 25322-68-3: TQ3500000 TQ3520000 TQ3560000 TQ3580000 TQ3600000 TQ3610000

RTECS#:

TQ3620000 TQ3630000 TQ3650000 TQ3675000 TQ3700000 TQ3800000 TQ3850000

TQ4025000 TQ4026000 TQ4027000 TQ4028000 TQ4030000 TQ4040000 TQ4041000

TQ4050000 TQ4070000 TQ4100000 TQ4105000 TQ4110000 TQ4950000 TQ5090000 TR1579850

ZD2465300

RTECS:

CAS# 107-21-1: Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, eye: 100 mg/1H Mild;

Draize test, rabbit, eye: 0.012 ppm/3D;

Draize test, rabbit, eye: 1440 mg/6H Moderate;

Oral, mouse: LD50 = 5500 mg/kg;

Oral, rat: LD50 = 4700 mg/kg;

Skin, rabbit: LD50 = 9530 uL/kg;

RTECS:

CAS# 25322-68-3: Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, eye: 100 uL Mild;

Draize test, rabbit, eye: 500 mg Mild;

Draize test, rabbit, eye: 500 mg Mild;

Draize test, rabbit, eye: 500 mg Mild;

Draize test, rabbit, eye: 500 mg Mild;

Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, eye: 500 mg Mild;

Draize test, rabbit, eye: 500 mg/24H Mild;

LD50/LC50:

Draize test, rabbit, skin: 500 mg/24H Mild;

Draize test, rabbit, skin: 500 mg/24H Mild;

Draize test, rabbit, skin: 500 mg Mild;

Oral, mouse: LD50 = 34 gm/kg;

Oral, mouse: LD50 = 31 gm/kg;

Oral, mouse: LD50 = 28915 mg/kg;

Oral, mouse: LD50 = 36 gm/kg;

Oral, rabbit: LD50 = 17300 mg/kg;

Oral, rabbit: LD50 = 76 gm/kg;

Oral, rabbit: LD50 = 14 gm/kg;

Oral, rabbit: LD50 = 17300 mg/kg;

Oral, rabbit: LD50 = 26800 mg/kg;

Oral, rabbit: LD50 = 19 gm/kg;
Oral, rabbit: LD50 = 28900 mg/kg;
Oral, rabbit: LD50 = 76 gm/kg;
Oral, rat: LD50 = 28 gm/kg;
Oral, rat: LD50 = 31640 mg/kg;
Oral, rat: LD50 = 27500 mg/kg;
Oral, rat: LD50 = 22 gm/kg;
Oral, rat: LD50 = 30200 mg/kg;
Oral, rat: LD50 = 600 mg/kg;
Oral, rat: LD50 = 30 gm/kg;
Oral, rat: LD50 = 32 gm/kg;
Oral, rat: LD50 = 1054

Carcinogenicity: Ethylene glycol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Polyethylene glycol - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated.

Section 12 - Ecological Information

Ecotoxicity: Fish: Goldfish: LC50 = >5000 mg/L; 24 Hr.; Unspecified
Bacteria: Phytobacterium phosphoreum: EC50 = 100,000 mg/L; 15 minutes; Microtox test

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not available

Hazard Class:

UN Number:

Packing Group:

USA RQ: CAS# 107-21-1: 5000 lb final RQ; 2270 kg final RQ

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 107-21-1: 0

CAS# 25322-68-3: 1

Canada

CAS# 107-21-1 is listed on Canada's DSL List

CAS# 25322-68-3 is listed on Canada's DSL List

Canadian WHMIS Classifications: D2B

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

CAS# 107-21-1 is listed on Canada's Ingredient Disclosure List
CAS# 25322-68-3 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 107-21-1 is listed on the TSCA
Inventory.

CAS# 25322-68-3 is listed on the TSCA
Inventory.

Section 16 - Other Information

MSDS Creation Date: 7/01/1999

Revision #5 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.
