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 Pharmaceuticalaan 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: None listed

Text for R-phrases: see Section 16

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: 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

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

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.

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.

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.

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

RTECS#:
CAS# 107-21-1: KW2975000
CAS# 25322-68-3: TQ3500000 TQ3520000 TQ3560000 TQ3580000 TQ3600000 TQ3610000
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/24H Mild;
Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, eye: 500 mg/24H Mild;
Draize test, rabbit, skin: 500 mg/24H Mild;
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 merchantibility 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.

-------------------------------------------------------------