

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: GLYCEROL, 99+%

Catalog Numbers:

15892-0000, 15892-0010, 15892-0025, 15892-0250

Synonyms:

Glycerine

Company Identification (Europe): Acros Organics BVBA

Janssen Pharmaceuticaaan 3a

2440 Geel, Belgium

Company Identification (USA): Acros Organics

One Reagent Lane

Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	EINECS#	Haz Symbols	Risk Phrases
56-81-5	GLYCEROL	99+%	200-289-5		

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Hygroscopic (absorbs moisture from the air).

Potential Health Effects

Eye:

May cause mild eye irritation.

Skin:

May cause mild skin irritation. Low hazard for usual industrial handling.

Ingestion:

May cause gastrointestinal irritation with nausea, vomiting and diarrhea. May cause headache. Expected to be a low ingestion hazard.

Inhalation:

Low hazard for usual industrial handling. Inhalation of a mist of this material may cause respiratory tract irritation.

Chronic:

May cause kidney injury.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.

Ingestion:

If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

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.

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.

**** 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.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

Storage:

Store in a cool, dry place. Store in a tightly closed container.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment

Eyes:

Wear chemical goggles and face shield.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Viscous liquid

Color: APHA: 10 max - clear

Odor: odorless

pH: Not available.

Vapor Pressure: .003 mbar @ 50 deg C

Viscosity: 1069 mPas 20 deg C

Boiling Point: 290 deg C @ 760.00mm Hg

Freezing/Melting Point: 18 deg C

Autoignition Temperature: 400 deg C (752.00 deg F)

Flash Point: 160 deg C (320.00 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.
Decomposition Temperature: >290 deg C
Solubility in water: >500 G/L WATER (20°C)
Specific Gravity/Density: 1.2610
Molecular Formula: C3H8O3
Molecular Weight: 92.09

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, exposure to moist air or water, temperatures above 140°C.

Incompatibilities with Other Materials:

Strong oxidizing agents, lead oxide, nitric acid, sulfuric acid, hydrogen peroxide, potassium permanganate, calcium hypochlorite, perchloric acid.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: May occur.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

RTECS#:

CAS# 56-81-5: MA8050000

LD50/LC50:

CAS# 56-81-5: Draize test, rabbit, eye: 126 mg Mild; Draize test, rabbit, eye: 500 mg/24H Mild; Draize test, rabbit, skin: 500 mg/24H Mild; Inhalation, rat: LC50 = >570 mg/m³/1H; Oral, mouse: LD50 = 4090 mg/kg; Oral, rabbit: LD50 = 27 gm/kg; Oral, rat: LD50 = 12600 mg/kg; Skin, rabbit: LD50 = >10 gm/kg.

Not available.

Carcinogenicity:

GLYCEROL -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

See actual entry in RTECS for complete information.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:

Daphnia: LC50: >10000 mg/l; 24 H; Algae: LC50: >= 2900 mg/l; ; Fish toxicity: LC50 (24 hr) goldfish > 5g/l [Shell Chemie - Shell Industrie Chemiclalien Gids, 1.1.1975] The product is not dangerous for aquatic organisms. Invertebrate toxicity: Cell multiplication inhibition test Pseudomonas putida >10g/l, green algae >10g/l, Entosiphon sulcatum 3.2g/l [Bringmann, G. Water Res. 1980, 14, 231-241]

Other

Biodegradable.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

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

**** SECTION 14 - TRANSPORT INFORMATION ****

IATA

No information available.

IMO

No information available.

RID/ADR

No information available.

**** 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# 56-81-5: 0

United Kingdom Occupational Exposure Limits

CAS# 56-81-5: OES-United Kingdom, TWA 10 mg/m³ TWA (mist)

United Kingdom Maximum Exposure Limits

Canada

CAS# 56-81-5 is listed on Canada's DSL List.

CAS# 56-81-5 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 56-81-5: OEL-AUSTRALIA:TWA 10 mg/m³

OEL-BELGIUM:TWA 10 mg/m³

OEL-FINLAND:TWA 20 mg/m³

OEL-FRANCE:TWA 10 mg/m³

OEL-THE NETHERLANDS:TWA 10 mg/m³

OEL-UNITED KINGDOM:TWA 10 mg/m³

OEL IN BULGARIA, COLOMBIA, JORDAN, KOREA check ACGIH TLV

OEL IN NEW ZEALAND, SINGAPORE, VIETNAM check ACGI TLV

US FEDERAL

TSCA

CAS# 56-81-5 is listed on the TSCA inventory.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 7/16/1996 Revision #0 Date: Original.

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