



**JUNSEI**

## Material safety data sheet

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SECTION 1      CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
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Catalog Numbers: 27211

Catalog Name: (JP) Concentrated Glycerin  
(JP : The Japanese Pharmacopoeia)

Company Identification:

Junsei Chemical Co., Ltd.

4-16, 4-Chome, Nihonbashi-Honcho, Chuo-ku

Tokyo, 103-0023 JAPAN

EMERGENCY TELEPHONE NUMBER: +81-48-988-3621

Sales Headquarters

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FAX: +81-48-988-8719 E-mail: shiyaku-t@junsei.co.jp

Web: <http://www.junsei.co.jp/>

CREATION DATE: July 24, 2008

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SECTION 2      COMPOSITION, INFORMATION ON INGREDIENTS  
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COMPONENT: Glycerol

SYNONYMS: Glycerine, Propane-1,2,3-triol

CAS NUMBER: 56-81-5

US TSCA:inventory

EC NUMBER (EINECS): 200-289-5

JAPAN NUMBER (ENCS): 2-242

PERCENTAGE: (JP) 98.0+%

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SECTION 3      HAZARDS IDENTIFICATION  
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### EMERGENCY OVERVIEW

Hygroscopic.

#### 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.

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SECTION 4 FIRST AID MEASURES

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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 soap and 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 to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

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SECTION 5 FIRE FIGHTING MEASURES

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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.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

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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.

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SECTION 7 HANDLING AND STORAGE

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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.

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SECTION 8 EXPOSURE CONTROLS, PERSONAL PROTECTION  
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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 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES  
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Physical State: Viscous liquid  
Appearance: APHA: 10 max - clear  
Odor: odorless  
pH: Not available.  
Vapor Pressure: 0.003 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 deg C)  
Specific Gravity/Density: 1.2610  
Molecular Formula: C3H8O3  
Molecular Weight: 92.09

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SECTION 10 STABILITY AND REACTIVITY  
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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 peroxides, potassium permanganate, calcium hypochlorite, perchloric acid.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: May occur.

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SECTION 11 TOXICOLOGICAL INFORMATION  
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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/m<sup>3</sup>/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.

Carcinogenicity:

GLYCEROL -

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

See actual entry in RTECS for complete information.

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SECTION 12 ECOLOGICAL INFORMATION  
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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 Chemicalien 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.

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SECTION 13    DISPOSAL CONSIDERATIONS  
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Dispose of in a manner consistent with federal, state, and local regulations.

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SECTION 14    TRANSPORT INFORMATION  
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IATA  
Not regulated as a hazardous material.  
IMO  
Not regulated as a hazardous material.  
RID/ADR  
Shipping Name: Not regulated.  
Hazard Class:  
UN Number:  
Packing group:

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SECTION 15    REGULATORY INFORMATION  
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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 mist: 10 mg/m3 TWA

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.

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SECTION 16    OTHER INFORMATION  
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