



Section 1. Product and Company Identification

Product Name Decaglycerol
CAS Number 9041-07-0

Parchem - fine & specialty chemicals
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New Rochelle, NY 10801
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🌐 parchem.com ✉ info@parchem.com

EMERGENCY RESPONSE NUMBER
CHEMTEL
Toll Free US & Canada: 1 (800) 255-3924
All other Origins: 1 (813) 248-0585
Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture
This is not classified as a hazardous substance or mixture

GHS Label Elements
Pictograms: N/A
Signal word: N/A

Hazard and precautionary statements
None

Emergency Overview
NFPA Rating
Health: 0
Flammability: 1
Reactivity: 1
Special:

HMIS Rating
Health: 0
Flammability: 1
Reactivity: 1
Personal Protection: Supplied by User; dependent on local conditions

General Information
Appearance: viscous liquid
Color: colorless
Odor: odorless

Potential Health Effects
Inhalation: No adverse effects are normally expected.
Eye contact: No adverse effects are normally expected.

Skin contact: No reported cases of intoxication in man. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Section 3. Composition / Information on Ingredients

Common Name Decaglycerol
Synonym(s) Decaglycerin; Polyglycerol-10
Formula $C_{30}H_{62}O_{21}$
CAS Number 9041-07-0

COMPONENT	CAS NUMBER	CONCENTRATION
Decaglycerol	9041-07-0	≥ 90.0%

Section 4. First Aid Measures

Inhalation: No hazards which require special first aid measures.

Eye contact: Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact: Wash off with plenty of water.

Ingestion: If a large amount is swallowed, get medical attention.

If victim is conscious: If swallowed, rinse mouth with water (only if the person is conscious).

If victim is unconscious but breathing: Not applicable

Section 5. Firefighting Measures

Suitable extinguishing media: Water, water spray, carbon dioxide (CO₂), foam, AFFF, dry powder

Extinguishing media which shall not be used for safety reasons: None

Special exposure hazards in a fire: Combustible material. Heating can release hazardous gases. Vapors may form explosive mixtures with air.

Hazardous decomposition products: Carbon monoxide, acrolein (traces)

Special protective equipment for firefighters: Evacuate personnel to safe areas. In the event of fire, wear self-contained breathing apparatus.

Other information: Cool containers / tanks with water spray

Section 6. Accidental Release Measures

Personal precautions: Refer to protective measures listed in sections 7 and 8.

Environmental precautions: Should not be released into the environment.

Methods for cleaning up: Dam up. Soak up with inert absorbent material. Prevent product from entering drains. Keep in properly labelled containers. Keep in suitable, closed containers for disposal, treat recovered material as described in the section "Disposal considerations".



Section 7. Handling and Storage

Handling: No special handling advice required.

Storage: Keep away from incompatible products. To maintain product quality, do not store in heat or direct sunlight.

Other information: Keep away from open flames, hot surfaces and sources of ignition. Do not smoke.

Section 8. Exposure Controls / Personal Protection

Exposure Limit Values

Decaglycerol

US ACGIH Threshold Limit Values: None established

Glycerol

US ACGIH Threshold Limit Values 01 2006: Time weighted average = 10 mg/m³. Mist

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) 02 2006:

Permissible exposure limit = 5 mg/m³. Respirable dust fraction

US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) 02 2006:

Permissible exposure limit = 15 mg/m³. Total dust

US OSHA Table Z-1-A (29 CFR 1910.1000) 1989: Time weighted average = 5 mg/m³.

Respirable dust fraction

US OSHA Table Z-1-A (29 CFR 1910.1000) 1989: Time weighted average = 10 mg/m³.

Total dust

Engineering controls: Ensure adequate ventilation.

Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

Hand protection: Protective gloves. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Suitable material: PVC

Eye protection: If splashes are likely to occur, wear goggles and face-shield

Skin and body protection: Wear suitable protective clothing.

Hygiene measures: When using do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties

Appearance: Viscous liquid

Color: light yellow

Odor: odorless

pH: 5 - 6 concentration of 100 g/l and temperature: 20°C (68°F)

Boiling point/boiling range: 205°C (401°F) at pressure 1.3 hPa
Flash point (open cup): ca. 230°C (446°F). Combustible material
Flammability: Not applicable
Explosive properties: Explosion danger. Vapors may form explosive mixture with air. (Glycerol)
Vapor pressure: < 1 hPa at temperature 20°C (68°F)
Relative density/Density: 1.28 at temperature 25°C (77°F)
Solubility: Soluble in water and alcohol
Partition coefficient (n-octanol/water): log Pow -1.76
Viscosity: 12,000 - 13,000 mPa*s at temperature 25°C (77°F)
Vapor density: No data available

Other data

Auto-flammability: ca. 380°C (716°F)

Section 10. Stability and Reactivity

Stability: Stable under recommended storage conditions.
Conditions to avoid: To avoid thermal decomposition, do not overheat. Heat, flames and sparks.
Materials to avoid: Oxidizing agents, Products which react with alcohols
Hazardous decomposition products: Carbon monoxide, Acrolein (traces)

Section 11. Toxicological Information

Toxicological data

Acute oral toxicity: LD50, rat, > 2,000 mg/kg
Skin irritation: Rabbit, no skin irritation
Eye irritation: Rabbit, no eye irritation
Sensitization: Guinea pig, did not cause sensitization on laboratory animals.
Chronic toxicity: Prolonged exposure, Target Organs: gastro-intestinal system, irritant effects, (Glycerol), repeated exposure, no systemic effect (Glycerol).
Remarks: Health injuries are not known or expected under normal use. In vitro tests did not show mutagenic effects, (Glycerol)

Section 12. Ecological Information

Ecotoxicity effects

Acute toxicity: Fishes, *Carassius auratus*, LC50, 24 h, > 5,000 mg/l (Glycerol); Crustaceans, *Daphnia magna*, LC50, 24 h, > 10,000 mg/l (Glycerol)
Further information on ecology: Bacteria, *Pseudomonasputida*, EC50, 16 h, > 10,000 mg/l (Glycerol)

Mobility: No data available

Persistence and degradability

Abiotic degradation: No data available

Biodegradation: Aerobic, tested according to: Zahn - Wellens, Chemical degradation > 90%, 7 d. Inherently biodegradable.

Bioaccumulative potential

Bioconcentration: log Pow = -1.76, (Glycerol). Non-suspected bioaccumulation

Other adverse effects: No data available

Remarks: Ecological injuries are not known or expected under normal use.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Sea (IMO/IMDG): Not regulated

Air (ICAO/IATA): Not regulated

U.S. Dept. of Transportation: Not regulated. It is recommended that ERG Guide number 111 be used for all non-regulated material.

Canadian Transportation of Dangerous Goods: Not regulated

Section 15. Regulatory Information

Inventory Information

Toxic Substance Control Act list (TSCA): In compliance with inventory.

Australian Inventory of Chemical Substances (AICS): One or more components not listed on inventory.

Canadian Domestic Substances List (DSL): In compliance with inventory .

Inventory of Existing Chemical Substances (China) (IECS): In compliance with inventory.

EU list of existing chemical substances (EINECS): In compliance with inventory.

Japanese Existing and New Chemical Substances (MITI List) (ENCS): In compliance with inventory.

Korean Existing Chemicals List (ECL): In compliance with inventory.

New Zealand Inventory of Chemicals (NZIOC): One or more components not listed on inventory.

Philippine Inventory of Chemicals and Chemical Substances (PICCS): One or more components not listed on inventory.



Other regulations

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): Not regulated.

US EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required: Not regulated.

US EPA CERCLA Hazardous Substances (40 CFR 302): Not regulated.

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5): Not regulated.

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323): Not regulated.

US California Safe Drinking Water & Toxic Enforcement Act (Proposition 65): Not regulated.

Classification and labelling

Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient

Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2): Not listed

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

Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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