



Section 1. Product and Company Identification

Product Name Diacetin
CAS Number 25395-31-7

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Section 2. Hazards Identification

Classification of the substance or mixture

Product definition: Mixture

Classification (Regulation (EC) No 1272/2008): None allocated

GHS Label Elements

Pictograms: N/A

Signal word: N/A

Hazard and precautionary statements

None

Section 3. Composition / Information on Ingredients

Common Name Diacetin
Synonym(s) 1,2,3-Propanetriol, diacetate; Diacetylglycerol; Glycerin diacetate; Glycerol diacetate; 1,2-Diacetin; 1,2-Diacetylglycerol
Formula C₇H₁₂O₅
CAS Number 25395-31-7

COMPONENT	CAS NUMBER	CONCENTRATION
Diacetin	25395-31-7	> 99% wt.

Section 4. First Aid Measures

Description of first-aid measures

Inhalation: If product mist or vapor causes respiratory irritation or distress, move the exposed person to fresh air immediately. If breathing is difficult or irregular, administer oxygen; if respiratory arrest occurs, start artificial respiration by trained personnel. Loosen tight fitting clothing such as a collar, tie, belt, or waistband. If symptoms persist, seek medical attention.

Eye Contact: Immediately flush eyes with large amounts of water for 15 minutes, occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do, after the first 2 minutes and continue rinsing. If irritation persists seek medical attention, preferably from an ophthalmologist.

Skin Contact: Flush skin with large amounts of water while removing contaminated clothing and continue rinsing for at least 15 minutes. Wash contaminated clothing thoroughly before reuse. If irritation occurs or persists, seek medical attention.

Ingestion: Rinse mouth thoroughly with water if the victim is conscious. Remove dentures, if present. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Obtain medical attention immediately.

Most important symptoms and effects, both acute and delayed

Potential health symptoms and effects

Eyes: May cause mild, transient irritation with redness and minor discomfort

Skin: May cause skin irritation. Low hazard for normal industrial handling.

Inhalation: May cause irritation of the respiratory tract.

Ingestion: May cause digestive upset with nausea, vomiting and diarrhea.

Chronic: None known. The toxicological properties of this substance have not been fully investigated.

Indication of any immediate medical attention and special treatment needed

Advice to Doctor and Hospital Personnel: Treat symptomatically and supportively

Section 5. Firefighting Measures

Extinguishable media

Suitable methods of extinction: Use extinguishing media such as water fog, water spray, carbon dioxide, dry chemical, and foam.

Unsuitable methods of extinction: None known

Special hazards arising from the substance or mixture: May be combustible at high temperatures. Closed containers may explode due to the buildup of pressure when exposed to extreme heat. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Explosion hazards: Not considered to be explosion hazard.

Advice for firefighters: Full protective equipment including self-contained breathing apparatus should be used. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. Water contaminated by this material must be contained from being discharged to any waterway, sewer or drain to prevent environmental contamination



Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures: Wear all appropriate protective equipment designated in Section 8. Remove all sources of ignition. Ventilate the area.

Environmental precautions: Avoid dispersal of spilled material or run-off and prevent contact with soil and entry into drains, sewers, or waterways.

Methods and materials for containment and cleaning up: Cover drains and contain spill. Cover with a large quantity of inert absorbent. Do not use combustible material such as saw dust. Shovel or sweep up product and place into an approved container for proper disposal. Observe possible material restrictions (Sections 7 and 10). Dispose of waste via a licensed waste disposal contractor.

Reference to other sections: See Section 13 for additional waste treatment information.

Section 7. Handling and Storage

Precautions for safe handling: Wear all appropriate personal protective equipment specified in Section 8. Do not get in eyes or on skin or clothing. If normal use of material presents a respiratory hazard, use only adequate ventilation or wear an appropriate respirator. Wash contaminated clothing and shoes before reuse.

Advice on protection against fire and explosion: Material does not present a fire or explosion hazard.

Conditions for safe storage, including any incompatibilities: Store in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10), food and drink. Transfer only to approved containers having correct labeling. Hygroscopic material. Keep container tightly closed to prevent moisture absorption. Protect container against physical damage. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Containers of this material may be hazardous when empty as they contain product residues. Use appropriate containment to avoid environmental contamination. Ventilate closed areas. Do not take internally. Keep out of reach of children.

Section 8. Exposure Controls / Personal Protection

Control parameters: Contains no substances with occupational exposure values.

8.2 Exposure control

Engineering Measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. Use adequate ventilation. Local exhaust is preferable. Refer to Section 7 for additional data.

Individual protection measures: Wear protective clothing to prevent repeated or prolonged contact with product. Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the representative supplier.



Hygiene measures: Facilities storing or using this material should be equipped with an eyewash station and safety shower. Change contaminated clothing. Preventive skin protection is recommended. Wash hands thoroughly after use, before eating, drinking or using the lavatory.

Eye/face protection: Wear protective goggles or safety glasses with non-perforated side shields and a face shield. Refer to 29 CFR 1910.133, ANSI Z87.4 or Standard EN 166.

Hand Protection: Wear gloves recommended by glove supplier for protection against materials in Section 3. Gloves should be impermeable to chemicals and oil. Breakthrough time of gloves must be greater than the intended use period.

Other protective equipment: Protective clothing. Protective boots, if the situation requires.

Respiratory Protection: None required with normal use. Always use an approved respirator when vapor/aerosols are generated. Where risk assessment shows air-purifying respirators are appropriate use a full-faced respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance: Clear, colorless liquid

Odor: Odorless

Odor Threshold: No data available

Molecular Weight: 176.17

pH: 5 - 6 (50 g/1 aqueous solution)

Freezing/Melting Point, Range: No data available

Initial Boiling Point: 250 - 280°C (482 - 536°F) @ 760 mm Hg

Evaporation Rate: Not applicable

Flammability (solid, gas): Not applicable

Flash Point (Closed Cup): 140°C (284°F)

Autoignition Temperature: No data available

Decomposition Temperature: > 200°C (> 392°F)

Lower Explosive Limit (LEL): No data available

Upper Explosive Limit (UEL): No data available

Vapor Pressure: <0.1 kPa @ 20°C

Vapor Density: 6.1 (Air = 1)

Specific Gravity: 1.17 - 1.18

Viscosity: No data available

Solubility in Water: Soluble

Partition Coefficient (n-octanol/water): No data available

Volatiles by Volume (70°F): 0%

Other data: No data available

Section 10. Stability and Reactivity

Reactivity: Forms explosive mixtures with air on intense heating.

Chemical stability: This product is stable under recommended storage conditions, handling and use. Material is hygroscopic (absorbs moisture from the air).

Possibility of hazardous reactions: Violent reactions possible with strong oxidizing agents. Hazardous polymerization does not occur.

Conditions to avoid: Temperature extremes; contact with incompatible materials.

Incompatible materials: Strong oxidizing agents

Hazardous decomposition products: Thermal decomposition products include oxides of carbon.

Section 11. Toxicological Information

Information on toxicological effects

Acute Oral Toxicity

LD50, mouse: 8,500 mg/kg

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Skin irritation/corrosion: May cause skin irritation

Eye irritation/corrosion: May cause mild, transient eye irritation

Sensitization: No data available

Genotoxicity in vitro: No data available

Mutagenicity: No data available

Specific organ toxicity - single exposure: No data available

Specific organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Further information: This material is not listed as a carcinogen by IARC, ACGIH, NTP or OSHA. No data is available regarding the mutagenicity or teratogenicity of this material in humans, nor is there available data that indicates that it causes adverse developmental or fertility effects in humans. Handle in accordance with good industrial hygiene and safety practice

Section 12. Ecological Information

Toxicity: No data available

Persistence and degradability: Material is readily biodegradable.

Bioaccumulation potential: Not expected to bio accumulate

Mobility in soil: No data available



Results of PBT and vPvB assessment: This product is not identified as a PBT/vPvB substance.

Other adverse effects

Additional ecological information: Do not allow material to run into surface waters, wastewater or soil. An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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

Note: Transportation information provided is for reference only. Customer is urged to consult 49 CFR 100-177, IMDG, IATA, EC, United Nations TOG and WHMIS (Canada) TOG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

Transport Information: Not regulated for transport

Section 15. Regulatory Information

Safety, health, and environmental regulations/legislation specific for substance or mixture

U. S. Federal Regulations

OSHA Hazard Communication Standard: This material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

OSHA Process Safety Management Standard: Chemicals in this product are not regulated under OSHA PSM Standard 29 CFR 1910.119.

EPA Risk Management Planning Standard: Chemicals in this product are not regulated under EPA RMP Standard (RMP) 40 CFR Part 68.

EPA Federal Insecticide, Fungicide and Rodenticide Act: This product is not a registered Pesticide under the FIFRA, 40 CFR Part 150.

TSCA Status: All components of this product are listed on the Toxic Substance Control Act (TSCA) Inventory. This product is not subject to TSCA 12(b) Export Notification.

Superfund Amendments and Reauthorization Act (SARA)

SARA 313 Information: None of the chemicals in this product are subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to Know Act of 1986.

SARA Section 311/312 Hazard Categories: None

SARA 302/304 Extremely Hazardous Substance: None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA.

SARA 302/304 Emergency Planning & Notification: None of the chemicals in this product are subject to reporting requirements of these sections of Title III of SARA



Comprehensive Response Compensation and Liability Act (CERCLA): This product contains no CERCLA reportable substances.

Clean Air Act (CAA): This product does not contain any substances that listed as Hazardous Air Pollutants (HAPs) designated in CAA Section 112 (b). This product does not contain any Class 1 Ozone depleters. This product does not contain any Class 2 Ozone depleters.

Clean Water Act (CWA): None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

U.S. State Regulations

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986: Product contains no chemical(s) known to the state of California to cause cancer or other reproductive harm.

Other U.S. State Inventories: Diacetin (CAS #25395-31-7) is not listed on any State Hazardous Substance Inventories, Right-to-Know lists and/or Air Quality/Air Pollutants lists

Canada

WHMIS Hazard Symbol and Classification: None allocated

Canadian Controlled Products Regulations (CPR): 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.

Canadian Ingredient Disclosure List (IDL): No substance in this product is listed on the IDL.

Canadian National Pollutant Release Inventory (NPRI): No substance in this product is listed on the NPRI.

European Economic Community

Labeling (67/548/EEC or 1999/45/EC): None allocated

WGK, Germany (Water danger/protection): 1

Global Chemical Inventory Lists

Country	Inventory Name	Inventory Listing
Canada	Domestic Substance List (DSL)	Yes
Canada	Non-Domestic Substance List (NDSL)	No
Europe	Inventory of New and Existing Chemicals (EINECS)	Yes
United States	Toxic Substance Control Act (TSCA)	Yes
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
New Zealand	New Zealand Inventory of Chemicals (NZioC)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes



Chemical safety assessment: For this product a chemical safety assessment was not carried out.

Hazardous Material Information System (HMIS)

Health: 1

Flammability: 1

Physical hazard: 0

Personal protection: C

National Fire Protection Association (NFPA)

Health: 1

Flammability: 1

Instability: 0

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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