

Section 1. Product and Company Identification

Product Name Dihydrocarveol
CAS Number 619-01-2

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EMERGENCY RESPONSE NUMBER
CHEMTEL
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Collect Calls Accepted

Section 2. Hazards Identification

Classification of the substance or mixture

GHS US Classification

Flam. Liq. 4 H227 - Combustible liquid
Acute Tox. 4 (Oral) H302 - Harmful if swallowed
Skin Irrit. 2 H315 - Causes skin irritation
Eye Irrit. 2A H319 - Causes serious eye irritation
STOT SE 3 H335 - May cause respiratory irritation

GHS Label Elements

Pictograms:



Signal word: WARNING

Hazard and precautionary statements

Hazard statements (GHS-US)

H227 - Combustible liquid
H302 - Harmful if swallowed
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H335 - May cause respiratory irritation

Precautionary Statements (GHS-US)

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking
P261 - Avoid breathing fume, gas, mist, spray, vapors
P264 - Wash hands, forearms and face thoroughly after handling
P270 - Do not eat, drink or smoke when using this product



- P271 - Use only outdoors or in a well-ventilated area
- P280 - Wear eye protection, face protection, protective clothing, and protective gloves
- P301+P312 - If swallowed: Call a POISON CENTER, a doctor if you feel unwell
- P302+P352 - If on skin: Wash with plenty of soap and water
- P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
- P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P312 - Call a doctor, a POISON CENTER if you feel unwell
- P321 - Specific treatment (see supplemental first aid instructions on this label)
- P330 - Rinse mouth
- P332+P313 - If skin irritation occurs: Get medical advice/attention
- P337+P313 - If eye irritation persists: Get medical advice/attention
- P362 - Take off contaminated clothing and wash it before reuse
- P370+P378 - In case of fire: Use alcohol resistant foam, dry sand to extinguish
- P403+P233 - Store in a well-ventilated place. Keep container tightly closed
- P403+P235 - Store in a well-ventilated place. Keep cool
- P405 - Store locked up
- P501 - Dispose of contents/container to an approved waste disposal plant

Other hazards: No additional information available
Unknown acute toxicity (GHS US): Not applicable

Section 3. Composition / Information on Ingredients

Common Name Dihydrocarveol
Synonym(s) Cyclohexanol, 2-methyl-5-(1-methylethenyl)-
Formula C₁₀H₁₈O
CAS Number 619-01-2

COMPONENT	CAS NUMBER	CONCENTRATION
Dihydrocarveol	619-01-2	96 - 100%

Section 4. First Aid Measures

Description of first-aid measures

- General:** Call a poison center/doctor/physician if you feel unwell.
- Inhalation:** Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell.
- Skin contact:** Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- Ingestion:** Rinse mouth. Call a poison center/doctor/physician if you feel unwell.



Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: Irritation.

Symptoms/injuries after eye contact: Eye irritation.

Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Water spray. Dry powder. Foam. Carbon dioxide.

Special hazards arising from the substance or mixture

Fire hazard: Combustible liquid.

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

Section 6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures

For non-emergency personnel

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.

For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Environmental precautions: Avoid release to the environment.

Methods and material for containment and cleaning up

Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information: Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 13.

Section 7. Handling and Storage

Precautions for safe handling

Precautions for safe handling: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.

Hygiene measures: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed.

Section 8. Exposure Controls / Personal Protection

Control parameters: No additional information available

Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls: Avoid release to the environment.

Section 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Liquid

Appearance: A colorless to pale yellow liquid.

Color: Colorless to pale yellow

Odor: floral, woody odor and sweet, spicy taste

Odor threshold: No data available

pH: No data available

Melting point: Not applicable

Freezing point: No data available

Boiling point: 224 - 225°C

Flash point (Closed Cup): 197°F

Relative evaporation rate (butyl acetate = 1): No data available

Flammability (solid, gas): No data available

Explosion limits: No data available

Explosive properties: No data available

Oxidizing properties: No data available



Vapor pressure: No data available
Relative density: No data available
Relative vapor density at 20°C: No data available
Specific gravity/density: 0.92 - 0.93 g/ml
Molecular mass: 154.25 g/mol
Solubility: insoluble in water. soluble in alcohols.
Log Pow: No data available
Auto-ignition temperature: No data available
Decomposition temperature: No data available
Viscosity: No data available
Viscosity, kinematic: No data available
Viscosity, dynamic: No data available

Other information: No additional information available

Section 10. Stability and Reactivity

Reactivity: The product is non-reactive under normal conditions of use, storage and transport.

Chemical stability: Stable under normal conditions.

Possibility of hazardous reactions: No dangerous reactions known under normal conditions of use.

Conditions to avoid: Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials: No additional information available

Hazardous decomposition products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological Information

Information on toxicological effects

Acute toxicity: Oral: Harmful if swallowed.

LD50 oral - rat: > 5 g/kg

ATE US (oral): 500.000 mg/kg body weight

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye irritation.

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

Specific target organ toxicity (single exposure): May cause respiratory irritation.

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

Symptoms/injuries after inhalation: May cause respiratory irritation.



Symptoms/injuries after skin contact: Irritation.
Symptoms/injuries after eye contact: Eye irritation.

Section 12. Ecological Information

Toxicity

Ecology - General: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

Persistence and degradability: No additional information available

Bioaccumulative potential: No additional information available

Mobility in soil: No additional information available

Other adverse effects: No additional information available

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

Department of Transportation (DOT)

In accordance with DOT

Transport document description: NA1993 Combustible liquid, N.O.S., 3, III
UN-No. (DOT) : NA1993

Proper Shipping Name (DOT): Combustible liquid, N.O.S.

Transport hazard class(es) (DOT): 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Packing group (DOT): III - Minor Danger

DOT Packaging Non Bulk (49 CFR 173.xxx): 203

DOT Packaging Bulk (49 CFR 173.xxx): 241

DOT Symbols: D - Proper shipping name for domestic use only, or to and from Canada, G - Identifies PSN requiring a technical name

DOT Special Provisions (49 CFR 172.102): IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50°C (1.1 bar at 122 F), or 130 kPa at 55°C (1.3 bar at 131°F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx): 150

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27): 60 L



DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75): 220 L

DOT Vessel Stowage Location: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Other information: No supplementary information available.

TDG: No additional information available

Transport by sea: No additional information available

Air transport: No additional information available

Section 15. Regulatory Information

US Federal Regulations

Cyclohexanol, 2-methyl-5-(1-methylethenyl)- (619-01-2): Listed on the United States TSCA (Toxic Substances Control Act) inventory

International Regulations

Canada

Cyclohexanol, 2-methyl-5-(1-methylethenyl)- (619-01-2): Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations: No additional information available

National Regulations

Cyclohexanol, 2-methyl-5-(1-methylethenyl)- (619-01-2)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

US State regulations: No additional information available

HMIS Rating

Health: 1

Flammability: 2

Reactivity: 0

Personal Protection: B

NFPA Rating

Health: 1

Flammability: 2

Reactivity: 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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