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MATERIAL SAFETY DATA SHEET (MSDS)

D-Carvone Natural Ketone

In accordance with GHS (Globally Harmonized System)

SECTION 1: IDENTIFICATION

Product Name: D-Carvone Natural Ketone

Synonyms:

- (R)-Carvone
- D-Carvone
- Natural Carvone

CAS Number: 2244-16-8

EC Number: 218-827-2

Chemical Formula: C₁₀H₁₄O

Molecular Weight: 150.22 g/mol

Recommended Use:

Raw material for fragrance, perfumery, cosmetics, flavours (where permitted), research and industrial applications.

Supplier:

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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

- Flammable Liquid Category 4
- Skin Irritation Category 2
- Skin Sensitisation Category 1
- Eye Irritation Category 2A
- Aquatic Chronic Category 2

Signal Word

Warning

Hazard Statements

H227 Combustible liquid.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P261 Avoid breathing vapours.

P264 Wash thoroughly after handling.

P272 Contaminated work clothing should not leave the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.



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P302+352 IF ON SKIN: Wash with plenty of soap and water.

P333+313 If skin irritation or rash occurs: Get medical advice.

P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes.

P337+313 If eye irritation persists: Get medical advice.

P501 Dispose of contents/container according to local regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product Name	D-Carvone Natural Ketone
CAS Number	2244-16-8
EC Number	218-827-2
Purity	≥99%
Chemical Formula	C ₁₀ H ₁₄ O

No hazardous impurities present at reportable concentrations.

SECTION 4: FIRST AID MEASURES

Inhalation

Move person to fresh air.

Keep comfortable.

Seek medical attention if symptoms persist.

Skin Contact

Wash thoroughly with soap and water.



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Remove contaminated clothing.

If irritation develops, obtain medical advice.

Eye Contact

Flush immediately with water for at least 15 minutes.

Remove contact lenses if easy.

Seek medical attention if irritation persists.

Ingestion

Rinse mouth.

Do not induce vomiting.

Seek medical advice.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media

- Dry chemical
- Carbon dioxide
- Alcohol-resistant foam
- Water spray

Unsuitable Media

High-pressure water jet.

Hazardous Combustion Products

- Carbon monoxide
- Carbon dioxide
- Smoke



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- Irritating organic vapours

Protective Equipment

Self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Prevent release into drains and waterways.

Absorb using:

- Sand
- Vermiculite
- Universal absorbent

Collect into suitable waste containers.

Wash contaminated area after removal.

SECTION 7: HANDLING AND STORAGE

Handling

Avoid breathing vapours.

Avoid skin and eye contact.

Use adequate ventilation.

Wear suitable PPE.

Keep away from ignition sources.

Storage

Store in tightly closed original containers.



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Recommended temperature:

15–25°C

Protect from:

- Heat
- Sunlight
- Oxidising agents

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

Local exhaust ventilation recommended.

Personal Protective Equipment

Eye Protection:
Safety glasses.

Hand Protection:
Chemical resistant nitrile gloves.

Skin Protection:
Protective clothing.

Respiratory Protection:
Normally not required with adequate ventilation.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear colourless to pale yellow liquid
Odour	Sweet minty, spearmint, caraway
Physical State	Liquid
Molecular Weight	150.22 g/mol



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Property	Value
Boiling Point	Approx. 230°C
Flash Point	Approx. 96°C (Closed Cup)
Melting Point	Approx. 25°C
Vapour Pressure	Low
Relative Density (20°C)	0.958–0.965
Refractive Index (20°C)	1.497–1.502
Optical Rotation	+58° to +65°
Solubility	Insoluble in water; soluble in alcohol and oils

SECTION 10: STABILITY AND REACTIVITY

Stable under recommended storage conditions.

Avoid:

- Heat
- Open flames
- Oxidising agents

Hazardous decomposition products:

- Carbon monoxide
- Carbon dioxide

No hazardous polymerisation expected.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Skin
- Eyes
- Inhalation



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Effects

Skin:

May cause irritation and sensitisation.

Eyes:

Causes irritation.

Inhalation:

High concentrations may cause respiratory irritation.

Ingestion:

May cause gastrointestinal discomfort.

Carcinogenicity

Not classified.

Mutagenicity

Not classified.

Reproductive Toxicity

Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Avoid uncontrolled release.

Aquatic Toxicity

Toxic to aquatic organisms with long lasting effects.

Persistence

Expected to biodegrade slowly.

Bioaccumulation

Potential exists due to lipophilic nature.



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SECTION 13: DISPOSAL CONSIDERATIONS

Dispose through licensed waste contractors.

Do not discharge into drains or the environment.

Dispose according to national and local regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number

Not regulated under most transport regulations.

Proper Shipping Name

Not regulated.

Hazard Class

Not regulated.

Packing Group

Not applicable.

Marine Pollutant

Avoid environmental release.

SECTION 15: REGULATORY INFORMATION

Prepared in accordance with:

- GHS Revision 9
- REACH guidance
- CLP Regulation (EC) No. 1272/2008 (where applicable)



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SECTION 16: OTHER INFORMATION

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Disclaimer

The information contained in this Safety Data Sheet is believed to be accurate and is provided in good faith based on available scientific and technical knowledge at the date of publication. It is intended solely as guidance for the safe handling, storage, transportation, use, and disposal of the product and should not be considered a warranty or quality specification. Users are responsible for determining the suitability of this product for their particular applications and for complying with all applicable laws and regulations.