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MATERIAL SAFETY DATA SHEET (MSDS)

Delta-Dodecalactone Natural

Prepared in accordance with the Globally Harmonized System (GHS)

SECTION 1: IDENTIFICATION

Product Name: Delta-Dodecalactone Natural

Chemical Name: δ -Dodecalactone

Synonyms:

- Delta-Dodecalactone
- 5-Hexyloxolan-2-one
- Natural Delta-Dodecalactone

CAS Number: 713-95-1

EC Number: 211-928-4

Chemical Formula: $C_{12}H_{22}O_2$

Molecular Weight: 198.30 g/mol

Recommended Use:

Natural aroma ingredient for fragrance, perfumery, flavour (where permitted), cosmetics, personal care products, and research applications.

Supplier

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SECTION 2: HAZARDS IDENTIFICATION

GHS Classification

This substance is **not classified as hazardous** according to Regulation (EC) No. 1272/2008 (CLP) and the Globally Harmonized System (GHS).

Signal Word

None

Hazard Statements

Not classified as hazardous.

Precautionary Statements

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release into the environment.

P280 Wear protective gloves and eye protection during prolonged handling.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	Information
Product Name	Delta-Dodecalactone Natural
Chemical Name	δ -Dodecalactone
CAS Number	713-95-1
EC Number	211-928-4



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Component	Information
Purity	≥98%
Chemical Formula	C ₁₂ H ₂₂ O ₂

Contains no hazardous impurities at reportable concentrations.

SECTION 4: FIRST AID MEASURES

Inhalation

Move to fresh air.

Seek medical advice if symptoms occur.

Skin Contact

Wash thoroughly with soap and water.

Remove contaminated clothing.

Obtain medical advice if irritation develops.

Eye Contact

Flush cautiously with clean water for at least 15 minutes.

Seek medical attention if irritation persists.

Ingestion

Rinse mouth with water.

Do not induce vomiting.

Obtain medical advice if unwell.

SECTION 5: FIRE FIGHTING MEASURES



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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

Organic decomposition products

Protective Equipment

Wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Avoid environmental release.

Absorb using:

- Sand
- Vermiculite
- Universal absorbent

Collect into suitable waste containers.



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Wash spill area after cleanup.

SECTION 7: HANDLING AND STORAGE

Handling

Avoid unnecessary contact with skin and eyes.

Use adequate ventilation.

Maintain good industrial hygiene practices.

Storage

Store in tightly sealed original containers.

Recommended storage temperature:

15–25°C

Protect from:

- Heat
 - Moisture
 - Direct sunlight
 - Strong oxidising agents
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SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls

General mechanical ventilation is normally adequate.

Personal Protective Equipment



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Eye Protection

Safety glasses.

Hand Protection

Nitrile gloves.

Skin Protection

Protective clothing where repeated exposure occurs.

Respiratory Protection

Normally not required under recommended conditions of use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Clear colourless to pale yellow liquid
Odour	Sweet creamy, peach, coconut, milky, fruity
Physical State	Liquid
Molecular Weight	198.30 g/mol
Boiling Point	Approx. 282°C
Flash Point	Approx. 138°C
Relative Density (20°C)	0.945–0.955
Refractive Index (20°C)	1.452–1.458
Vapour Pressure	Low
Solubility	Insoluble in water; soluble in alcohol and oils

SECTION 10: STABILITY AND REACTIVITY

Stable under normal storage conditions.

Avoid:



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- Excessive heat
- Strong oxidising agents
- Open flames

Hazardous decomposition products:

- Carbon monoxide
- Carbon dioxide

Hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

- Skin contact
- Eye contact
- Inhalation

Skin

May cause mild irritation in sensitive individuals.

Eyes

May cause temporary irritation.

Inhalation

High vapour concentrations may cause mild respiratory irritation.

Ingestion

May cause gastrointestinal discomfort.



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Carcinogenicity

Not classified.

Mutagenicity

Not classified.

Reproductive Toxicity

Not classified.

SECTION 12: ECOLOGICAL INFORMATION

Avoid uncontrolled release.

Aquatic Toxicity

No significant environmental hazards expected when used appropriately.

Persistence

Expected to be biodegradable.

Bioaccumulation

Low to moderate potential.

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose through an approved waste disposal contractor.

Do not discharge into drains or natural waterways.

Follow local, regional and national regulations.



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SECTION 14: TRANSPORT INFORMATION

Item	Information
UN Number	Not Regulated
Proper Shipping Name	Not Regulated
Transport Hazard Class	Not Regulated
Packing Group	Not Applicable
Marine Pollutant	No

SECTION 15: REGULATORY INFORMATION

Prepared in accordance with:

- GHS Revision 9
 - Regulation (EC) No. 1272/2008 (CLP)
 - REACH Regulation (EC) No. 1907/2006 (where applicable)
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SECTION 16: OTHER INFORMATION

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Prepared By

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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 available at the date of publication. It is intended solely as guidance for the safe handling, storage, transportation, use, and disposal of this



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material and should not be considered a guarantee of product specifications or suitability for any particular application. Users are responsible for ensuring compliance with all applicable laws, regulations, and safe working practices.