



503364 Dodecalactone Delta

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 03-06-2025 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form	: Substance
Trade name	: 503364 Dodecalactone Delta
Chemical name	: delta-Dodecalactone
CAS-No.	: 713-95-1
Product code	: 503364

1.2. Recommended use and restrictions on use

Use of the substance/mixture	: Fragrance ingredient for use in consumer products. Intended to be used in the manufacture of products for consumers.
Restrictions on use	: Not for personal use in this form or concentration

1.3. Supplier

Supplier

Vigon International, LLC
127 Airport Road,
East Stroudsburg,
PA 18301-9629,
USA

Telephone: +1 570-476-6300
Fax: +1 570-476-1110
Website: www.vigon.com
E-mail: regulatory@vigon.com

1.4. Emergency telephone number

Emergency number	: INFOTRAC (ACCT# 78928): 1-800-535-5053 WITHIN THE U.S.A. 1-352-323-3500 OUTSIDE THE U.S.A.
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SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Aquatic Acute 2	H401	Toxic to aquatic life
Full text of hazard classes and H-statements : see section 16		

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard statements (GHS US)	: H401 - Toxic to aquatic life
Precautionary statements (GHS US)	: P273 - Avoid release to the environment. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	Product identifier	%
delta-Dodecalactone (Main constituent)	CAS-No.: 713-95-1	≤ 100

Comments : The exact percentage (concentration) of composition has been withheld as a trade secret.
Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

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4.1. Description of first aid measures

First-aid measures general : As in all cases of potential poisoning, Obtain medical advice immediately. IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. In the event of exposure to vapors, immediately remove from the area to a fresh air environment.

First-aid measures after skin contact : Remove contaminated clothes. If irritation persists, or any sign of tissue damage is apparent, obtain medical advice immediately. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact : In the event of contact with the eyes, irrigate with water for at least 15 minutes; obtain medical advice if irritation persists. Rinse eyes with water as a precaution.

First-aid measures after ingestion : In the event of accidental ingestion, rinse mouth with water. Give up to one tumbler (half pint) of milk or water. Obtain medical advice immediately. Do not induce vomiting, obtain medical advice immediately. Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

No additional information available

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

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5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : In the event of fire, adequate extinguishers should be used. Avoid inhalation of smoke and fumes. In case of insufficient ventilation, wear suitable respiratory equipment. Foam. Carbon dioxide. Dry chemical.

5.2. Specific hazards arising from the chemical

Fire hazard : Combustible liquid.

Hazardous decomposition products in case of fire : Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

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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

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6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Gloves impervious to the chemical substance should be worn when handling spillages. No smoking. Avoid naked flames or other potential sources of ignition (eg. electrical equipment). Avoid skin contamination and inhalation of vapour. Individual washing routines should be followed after any potential contact. Ensure adequate ventilation in working areas following accidental releases.

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

6.1.2. 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".

Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment. Do not discharge directly into drains, air, into soil or into the aquatic environment.

6.3. Methods and material for containment and cleaning up

For containment : Small spills can be wiped up with a cloth or paper. Standard absorbents can be used (saw dust, sand, vermiculite). Wear rubber gloves. Avoid contact with skin. If skin contact occurs, wash liberally with soap and water. Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.

Methods for cleaning up: : Take up liquid spill into absorbent material. Spillages should be disposed of in accordance with Governmental Regulations. Notify authorities if product enters sewers or public waters.

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

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid contact with skin and eyes. Wear impervious gloves protection and eye/face protection. No smoking. Avoid any sources of ignition. Avoid exposing to high temperature during processing. Do not ingest or apply to the skin as such. Good personal washing routines should be followed. Maintain adequate local and general ventilation where product is handled. Good personal washing routines should be followed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Keep strict control of dust accumulation to a minimum. Maintain adequate local and general ventilation where product is handled and dispensed. Keep away from sources of ignition.
Storage conditions	: It is good general practice to store in closed, preferably full, containers away from heat sources, and protected from extremes of temperature. Do not re-use the empty container. Respect general rules for compatibility storage. Store in a well-ventilated place. Keep cool. Store locked up.
Incompatible materials	: Oxidizing agents.
Maximum storage period	: 365 days
Packaging materials	: Store always product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls	: Avoid exposing to high temperature during processing. Maintain adequate local and general ventilation where product is handled. Maintain adequate local and general ventilation where product is handled and dispensed. Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Wear protective clothing. Insulated gloves. Safety glasses. Wear respiratory protection.

Hand protection:
Wear impervious protective gloves.
Eye protection:
Safety glasses
Skin and body protection:
Wear protective clothing, overall if necessary to limit the odour contamination of personal clothing. Individual washing routines should be followed after any potential contact.
Respiratory protection:
Avoid breathing vapors and/or aerosols

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Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Colorless - Pale yellow
Odour	: Characteristics Strong

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Odour threshold	: No data available
pH	: No data available
Melting point	: < -8.8 °C
Freezing point	: No data available
Boiling point	: > 300 °C (OECD 103)
Flash point	: 329 °F
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: The product is not flammable.
Vapour pressure	: 0.132 Pa (25°C)
Relative vapour density at 20°C	: No data available
Relative density	: 0.949 at 20°C (OECD 109) (d 20/20)
Solubility	: Water: 70.633 mg/l at 25°C (OECD 105)
Partition coefficient n-octanol/water (Log Pow)	: 3.48
Auto-ignition temperature	: > 27 °C
Decomposition temperature	: No decomposition if stored and applied as directed
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

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10.1. Reactivity

No reaction known with water.

10.2. Chemical stability

Good stability at standard temperature. Presents no significant reactivity hazard. Normally stable even at elevated temperatures and pressures. Avoid temperatures above or near to the flash point. Not pyrophoric nor reactive with water. Does not undergo explosive decomposition, is shock stable, and is not an oxygen donor. Does not form explosive mixtures with other organic materials. Will not undergo hazardous exothermic polymerization.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid temperatures above or at least 5 °C below flash point for any flammable liquids. Do not heat closed containers. Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Oxidizing agents.

10.6. Hazardous decomposition products

Contact with water or storage under recommended conditions for one year should not produce dangerous decomposition products.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)

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Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

delta-Dodecalactone (713-95-1)		Parfclub.shop
LD50 oral rat	> 2000 mg/kg (OECD 423)	
LD50 dermal rat	> 2000 mg/kg (OECD 402)	

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

delta-Dodecalactone (713-95-1)	
Additional data	Reproduction/Developmental Toxicity Screening Test (Rat, OECD 421, Gavage): NOAEL (male reproduction) = 1000 mg/kg/day NOAEL (development) = 1000 mg/kg/day

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

delta-Dodecalactone (713-95-1)	
Additional data	NOAEL : 1000 mg/kg/day (Rat, Gavage, 28 days)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic : No data available

SECTION 12: Ecological information

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12.1. Toxicity

Ecology - general : Toxic to aquatic life.

delta-Dodecalactone (713-95-1)	
LC50 - Fish [1]	10.25 mg/l ((Zebra fish, OECD 203, 96 h)
EC50 - Crustacea [1]	8.8 mg/l (Daphnia sp. ,OECD 202, 48 h)
EC50 - Other aquatic organisms [1]	62 mg/l (Toxicity to microorganisms)
ErC50 algae	6.61 mg/l (72 h)

12.2. Persistence and degradability

delta-Dodecalactone (713-95-1)	
Persistence and degradability	Readily biodegradable. Not persistent.
Additional information	Biodegradation : 60% 28 days. Half life : 2.1 - 3.3 year (pH=7)

12.3. Bioaccumulative potential

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delta-Dodecalactone (713-95-1)	
BCF - Other aquatic organisms [1]	102.1 l/kg
Partition coefficient n-octanol/water (Log Kow)	3.48

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12.4. Mobility in soil

delta-Dodecalactone (713-95-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.8611
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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

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13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Product: The product should be handled according to the instructions given under sections 6, 7 and 8. Dispose of according to local or national regulations. The product should not be allowed to enter drains or the environment. Contaminated packaging: Empty packaging should be disposed according to local or national regulations by an approved waste handling. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Empty packaging should be disposed according to local or national regulations by an approved waste handling. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not regulated
Proper Shipping Name (IMDG)	: Not regulated
Proper Shipping Name (IATA)	: Not regulated

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT)	: Not regulated
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IMDG

Transport hazard class(es) (IMDG)	: Not regulated
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IATA

Transport hazard class(es) (IATA)	: Not regulated
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14.4. Packing group

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Packing group (DOT)	: Not regulated
Packing group (IMDG)	: Not regulated
Packing group (IATA)	: Not regulated

14.5. Environmental hazards

Other information	: No supplementary information available.
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14.6. Special precautions for user

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Full text of H-statements

Aquatic Acute 2	Hazardous to the aquatic environment – Acute Hazard, Category 2
H401	Toxic to aquatic life

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.