# SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: gamma (+) DODECALACTONE, NATURAL ND9004

Version: 3

# Section 1. Identification of the substance or the mixture and of the supplier

**1.1 Product Identifier** 

Product identifier:5-Octyldihydro-2(3H)-furanone; 4-Dodecanolide; CAS: 2305-05-7Other identifiers:None

1.2 Relevant identified uses of the substance of mixture and uses advised against

- Product uses: Flavours
- **1.3 Details of the supplier of the safety data sheet**

Riverside Aromatics Ltd
16 Slader Business Park Witney Road Poole BH17 0GP
Riverside Aromatics Ltd
info@riversidearomatics.com
01202 679532

# 1.4 Emergency telephone number

Emergency phone:	01202 679532
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# Section 2. Hazards identification

# 2.1 Classification of the substance or mixture

# Classification under Regulation (EC) No 1272/2008

Class and category of	Specific Target Organ Toxicity (Single Exposure) Category 3
danger:	H315, Causes skin irritation.
	H319, Causes serious eye irritation.
	H335, May cause respiratory irritation.

# 2.2 Label elements

# Classification under Regulation (EC) No 1272/2008

Signal word:	Warning
Hazard statements:	H315, Causes skin irritation. H319, Causes serious eye irritation. H335, May cause respiratory irritation.
M factor:	None

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Supplementa Information:	None	
Precautionary statements:	<ul> <li>P261, Avoid breathing vapour or dust.</li> <li>P264, Wash hands and other contacted skin thoroughly after handling.</li> <li>P271, Use only outdoors or in a well-ventilated area.</li> <li>P280, Wear protective gloves/eye protection/face protection.</li> <li>P302/352, IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304/340, IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P312, Call a POISON CENTRE or doctor/physician if you feel unwell.</li> <li>P332/313, If skin irritation occurs: Get medical advice/attention.</li> <li>P337/313, If eye irritation persists: Get medical advice/attention.</li> <li>P362, Take off contaminated clothing and wash before reuse.</li> <li>P403/233, Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405, Store locked up.</li> <li>P501, Dispose of contents/container to approved disposal site, in accordance with local regulations.</li> </ul>	
Pictograms:		
2.3 Other haz	rds	
Other hazard	None	
	Section 3. Composition / information on ingredients	
3.1 Substanc		
Product iden	ier: 5-Octyldihydro-2(3H)-furanone; 4-Dodecanolide; CAS: 2305-05-7	
	Section 4. First-aid measures	
4.1 Description	of first aid measures	
Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
Eye exposure	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	t
Skin exposur		

Riverside Aromatics Ltd, 16 Slader Business Park, Witney Road, Poole, Dorset, BH17 0GP. +44 (0) 1202 679532 Riverside Aromatics (Europe) B.V., Muntstraat 7, 4903 PA, Oosterhout. +31 (0) 162 562480

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Ingestion: Rinse mouth with water and obtain medical attention.

# 4.2 Most important symptoms and effects, both acute and delayed

Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

# 4.3 Indication of any immediate medical attention and special treatment needed

None expected, see Section 4.1 for further information.

# Section 5: Firefighting measures

# 5.1 Extinguishing media

Suitable media: Carbon dioxide, Dry chemical, Foam.

# 5.2 Special hazards arising from the substance or mixture

In case of fire, may be liberated: Carbon monoxide, Unidentified organic compounds.

# 5.3 Advice for fire fighters:

In case of insufficient ventilation, wear suitable respiratory equipment.

# Section 6. Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures:

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

# 6.2 Environmental precautions:

Keep away from drains, surface and ground water, and soil.

# 6.3 Methods and material for containment and cleaning up:

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

# 6.4 Reference to other sections:

Also refer to sections 8 and 13.

# Section 7. Handling and storage

# 7.1 Precautions for safe handling:

Keep away from heat, sparks, open flames and hot surfaces. - No smoking. Use personal protective equipment as required. Use in accordance with good manufacturing and industrial hygiene practices. Use in areas with adequate ventilation Do not eat, drink or smoke when using this product.

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#### 7.2 Conditions for safe storage, including any incompatibilities:

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Ground/bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

# 7.3 Specific end use(s):

Flavours: Use in accordance with good manufacturing and industrial hygiene practices.

#### Section 8. Exposure controls/personal protection

#### 8.1 Control parameters

Workplace exposure limits: Not Applicable

#### 8.2 Exposure Controls

#### Eye / Skin Protection

Wear protective gloves/eye protection/face protection

#### **Respiratory Protection**

Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapour and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures: a) Isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant. b) Employ the use of Personal protective equipment - an approved, properly fitted respirator with organic vapour cartridges or canisters and particulate filters. c) Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. d) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

# Section 9. Physical and chemical properties

# 9.1 Information on basic physical and chemical properties

Physical State/Colour:	Colourless to pale yellow clear liquid
Odour:	Not determined
Odour threshold:	Not determined
Melting point / freezing point:	17 °C/
Boiling point or initial boiling point and boiling range:	131 °C
Flammability:	Not determined
Lower and upper explosion limit:	Not determined
Flash point:	109 °C
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not relevant
pH:	Not determined

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Version:

Kinematic viscosity:	Not determined
Solubility:	Not determined
Partition coefficient: n-octanol/wate value):	r (log Not determined
Vapour pressure:	Not determined
Density and/or relative density:	0.9460 - 0.9540
Relative vapour density:	Not determined
Particle characteristics:	Not determined
9.2 Other information:	None available

# Section 10. Stability and reactivity

#### 10.1 Reactivity:

Presents no significant reactivity hazard, by itself or in contact with water.

#### 10.2 Chemical stability:

Good stability under normal storage conditions.

# 10.3 Possibility of hazardous reactions:

Not expected under normal conditions of use.

# 10.4 Conditions to avoid:

Avoid extreme heat.

# 10.5 Incompatible materials:

Avoid contact with strong acids, alkalis or oxidising agents.

# 10.6 Hazardous decomposition products:

Not expected.

# Section 11. Toxicological information

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute Toxicity:	Based on available data the classification criteria are not met.
Acute Toxicity Oral	Not Applicable
Acute Toxicity Dermal	Not Applicable
Acute Toxicity Inhalation	Not Available
Skin corrosion/irritation:	Based on available data the classification criteria are not met.
Serious eye damage/irritation:	Based on available data the classification criteria are not met.
Respiratory or skin sensitisation:	Based on available data the classification criteria are not met.
Germ cell mutagenicity:	Based on available data the classification criteria are not met.
Carcinogenicity:	Based on available data the classification criteria are not met.
Reproductive toxicity:	Based on available data the classification criteria are not met.
STOT-single exposure:	Specific Target Organ Toxicity (Single Exposure) Category 3
STOT-repeated exposure:	Based on available data the classification criteria are not met.

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Aspiration hazard: Based on available data the classification criteria are not met.

# Information about hazardous ingredients in the mixture

Not Applicable

Refer to Sections 2 and 3 for additional information.

# 11.2 Information on other hazards

Not Applicable

# Section 12. Ecological information

12.1 Toxicity:	Not available
12.2 Persistence and degradability:	Not available
12.3 Bioaccumulative potential:	Not available
12.4 Mobility in soil:	Not available
12.5 Results of PBT and vPvB assessmen	nt:
This substance does not meet the PBT/vPvE	B criteria of REACH

H, annex XIII.

- 12.6 Endocrine disrupting properties: Not Applicable
- 12.7 Other adverse effects: Not available

# Section 13. Disposal considerations

# 13.1 Waste treatment methods:

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

# Section 14. Transport information

	14.1 UN number:	14.2 UN Proper Shipping Name:	14.3 Transport hazard class (es):	Sub Risk:	14.4 Packing Group:
UN Model Regulations	Not classified	-	-	-	-
IMDG	Not classified	-	-	-	-
ADR,RID,ADN	Not classified	-	-	-	-
ΙCAO ΤΙ	Not classified	-	-	-	-

14.5 Environmental hazards:

Not environmentally hazardous for transport

14.6 Special precautions for user:

None additional

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# 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not classified

# Section 15. Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** None additional

# **15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out for this product.

# Section 16. Other information

Key to revisions:

Classification under Regulation (EC) No 1272/2008

# Key to abbreviations:

Not applicable

The information in this safety data sheet is to the best of our knowledge true and accurate but all data, instructions, recommendations and/or suggestions are made without guarantee.