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Issue date: 01/05/2019

Version: 1 (25/04/2019)

# **SAFETY DATA SHEET**

In accordance with REACH Regulation EC No.1907/2006

**Product:** gamma-UNDECALACTONE [ALDEHYDE C14], NATURAL NU1100

Version: 1

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

#### 1.1 Product Identifier

gamma-UNDECALACTONE [ALDEHYDE C14], NATURAL **Product identifier:** 

Other 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 Company name: Company address: 16 Slader Business Park

> Witney Road Poole **BH17 0GP**

**Contact:** Riverside Aromatics Ltd E-Mail address: info@riversidearomatics.com

Company phone: 01202 679532 1.4 Emergency telephone number

01202 679532 **Emergency phone:** 

# Section 2. Hazards identification

#### 2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

danger:

Class and category of Hazardous to the Aquatic Environment - Long-term Hazard Category 3

H412, Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: None

**Hazard statements:** H412, Harmful to aquatic life with long lasting effects.

M factor: None

Supplemental Information:

None

**Precautionary** 

P273, Avoid release to the environment.

statements: P501, Dispose of contents/container to approved disposal site, in accordance with local

regulations.



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Pictograms: None

Other hazards: None

# Section 3. Composition / information on ingredients

#### 3.1 Substances

Product identifier: gamma-UNDECALACTONE [ALDEHYDE C14], NATURAL

#### Contains:

Name	CAS	EC	REACH Registration No.	%	Classification for (CLP) 1272/2008
gamma-Undecalactone	104-67-6	203-225-4		100.00%	EH C3;H412,-

# Section 4. First-aid measures

## 4.1 Description of first aid measures

**Inhalation:** Remove from exposure site to fresh air, keep at rest, and obtain medical attention.

**Eye exposure:** Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist. **Skin exposure:** Remove contaminated clothes. Wash thoroughly with soap and water. Contact physician if

irritation persists.

**Ingestion:** Rinse mouth with water and obtain medical attention.

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

None expected, see Section 4.1 for further information.

## 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.



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#### 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.

# 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**

Under normal conditions of use and where adequate ventilation is available to prevent build up of excessive vapour, this material should not require special engineering controls. However, in conditions of high or prolonged use, or high temperature or other conditions which increase exposure, the following engineering controls can be used to minimise exposure to personnel: a) Increase ventilation of the area with local exhaust ventilation. b) Personnel can use an approved, appropriately fitted respirator with organic vapour cartridge or canisters and particulate filters. c) Use closed



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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

Appearance: Colourless to pale yellow liquid

Odour:

Odour threshold:

Not determined

PH:

Not determined

Not determined

Not determined

Not determined

Initial boiling point / range:  $297 \,^{\circ}\text{C}$ Flash point:  $> 110 \,^{\circ}\text{C}$ 

**Evaporation rate:**Not determined
Flammability (solid, gas):
Not determined

Upper/lower flammability or explosive limits: Product does not present an explosion hazard

Vapour pressure: Not determined

Vapour density: >1.0

0.9234 - 0.9634 Relative density: Solubility(ies): Not determined Partition coefficient: n-octanol/water: Not determined **Auto-ignition temperature:** Not determined **Decomposition temperature:** Not determined Viscosity: Not determined **Explosive properties:** Not expected **Oxidising properties:** Not expected

**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.



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## 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 toxicological effects

This material does not meet the criteria for classification for health hazards under Regulation (EC) No 1272/2008.

Acute Toxicity: Based on available data the classification criteria are not met.

Acute Toxicity Oral 18.5

Acute Toxicity Dermal Not Applicable
Acute Toxicity Inhalation Not Available

Skin corrosion/irritation: Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. Serious eye damage/irritation: 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. Based on available data the classification criteria are not met. Carcinogenicity: Reproductive toxicity: Based on available data the classification criteria are not met. Based on available data the classification criteria are not met. STOT-single exposure: Based on available data the classification criteria are not met. STOT-repeated exposure: Based on available data the classification criteria are not met. **Aspiration hazard:** 

## Information about hazardous ingredients in the mixture

Not Applicable

Refer to Sections 2 and 3 for additional information.

## Section 12. Ecological information

# 12.1 Toxicity:

Harmful to aquatic life with long lasting effects.

Fish Test (96h) LC50: 569

Daphnia Test (48h) EC50: 17

12.2 Persistence and degradability:Not available12.3 Bioaccumulative potential:Not available12.4 Mobility in soil:Not available

#### 12.5 Results of PBT and vPvB assessment:

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

12.6 Other adverse effects: Not available



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## 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: Not classified

14.2 UN Proper Shipping Name: -

14.3 Transport hazard class(es): Not classified

Sub Risk: Not classified

**14.4. Packing Group:** Not classified

**14.5 Environmental hazards:** Not environmentally hazardous for transport

14.6 Special precautions for user: None additional

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**

Concentration % Limits: EH C3=25.00% EH C4=25.00%

**Total Fractional Values:** EH C3=4.00 EH C4=4.00

Key to revisions:

Not applicable

#### Key to abbreviations:

Abbreviation	Meaning	
EH C3	Hazardous to the Aquatic Environment - Long-term Hazard Category 3	
H412	Harmful to aquatic life with long lasting effects.	
P273	Avoid release to the environment.	
P501	Dispose of contents/container to approved disposal site, in accordance with local regulations.	

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.