

# SAFETY DATA SHEET.

Version 1

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

# 1.1 Product identifier

**Number** A52360 **EC-No** 211-892-8

Manufacturer C & A Service Inc. as agents for

Citrus and Allied Essences, Ltd

4620 Mercedes Drive Belcamp, MD 21017 (410) 273-9500

Product name GAMMA DECALACTONE (NATURAL)

Synonyms Decan-4-olide

2(3H)-Furanone, 5-hexyldihydro-5-Hexyldihydrofuran-2(3H)-one

4-n-Hexyl-4-hydroxybutanoic acid lactone 4-Hydroxydecanoic acid, gamma-lactone

Pure substance/mixture Substance Formula C10H18O2

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

Recommended Use No information available

1.3 Details of the supplier of the safety data sheet

For further information, please contact:

E-mail Address dchristopher@candaserviceinc.com

1.4 Emergency telephone number

Emergency telephone Chemtrec: 1-800-424-9300 for US/ 703-527-3887 outside US

# 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Serious eye damage/eye irritation	Category 2
Acute aquatic toxicity	Category 3
Flammable liquids	Category 4

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

For the full text of the R-phrases mentioned in this Section, see Section 16

Symbol(s)

Not dangerous

#### 2.2 Label elements



#### Signal Word Warning

H227 - Combustible liquid

# **Precautionary Statements**

P403 + P235 - Store in a well-ventilated place. Keep cool

P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P280 - Wear protective gloves/ eye protection/ face protection

#### 2.3 Other information

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

For the full text of the R-phrases mentioned in this Section, see Section 16

# 4. FIRST AID MEASURES

#### 4.1 Description of first-aid measures

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

**Inhalation** Move to fresh air.

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

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

Notes to physician Treat symptomatically

# 5. FIRE-FIGHTING MEASURES

# 5.1 Extinguishing media

# **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

#### Extinguishing media which shall not be used for safety reasons

No information available

# 5.2 Special hazards arising from the substance or mixture

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#### **Special Hazard**

None

# 5.3 Advice for firefighters

#### Special protective equipment for fire-fighters

As in any fire, wear self-contained breathing apparatus and full protective gear

# 6. ACCIDENTAL RELEASE MEASURES

# 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

See Section 12 for additional Ecological Information

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

# 6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust)

# 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Ensure adequate ventilation.

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

Keep container tightly closed in a dry and well-ventilated place.

# 7.3 Specific end uses

Exposure scenario N/A

Other Guidelines N/A

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration No information available

(PNEC)

8.2 Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas

Personal protective equipment

Revision Date 25-Sep-2013

**Eye Protection** Tightly fitting safety goggles

Hand ProtectionProtective glovesSkin and body protectionLong sleeved clothing

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls No information available

# 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state liquid Appearance clear

Odor Fruity Color Colorless to pale yellow.

<u>Property</u> <u>Values</u> <u>Methods</u>

pH No information available

Melting/freezing point No information available

Boiling point/boiling rangeFCC MethodFlash Point93 °C / 200 °FClosed cupEvaporation rateFCC Method

Flammability (solid, gas)

Flammability Limits in Air

No information available
No information available

upper flammability limit lower flammability limit

Vapor pressure mm Hg 20°CNo information availableVapor densityNo information availableRelative densityNo information available

Specific Gravity @ 25C0.949 - 0.955FCC MethodSpecific Gravity @ 20C0.952 - 0.958FCC MethodRefractive Index1.446 - 1.450FCC Method

Water solubilityNo information availablePartition coefficient: n-octanol/waterNo information availableAutoignition temperatureNo information availableDecomposition temperatureNo information availableViscosity, dynamicNo information available

**Explosive properties**Oxidizing Properties
No information available
No information available

9.2 Other information

Molecular Weight No information available

# 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

#### 10.2 Chemical stability

Stable under normal conditions

# 10.3 Possibility of hazardous reactions

#### 10.4 Conditions to Avoid

Heat, flames and sparks

#### 10.5 Incompatible Materials

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No materials to be especially mentioned

# **10.6 Hazardous Decomposition Products**

None under normal use conditions

# 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

**Acute toxicity** 

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** There is no data available for this product

**Eye contact** There is no data available for this product

**Skin contact** There is no data available for this product

**Ingestion** There is no data available for this product

Acute toxicity 100% of the mixture consists of ingredient(s) of unknown toxicity

 Oral
 99,999.00

 Dermal
 99,999.00

 Gas
 99,999.00

 Mist
 99,999.00

 Vapor
 99,999.00

Skin corrosion/irritationNo information availableEye damage/irritationNo information availableSensitizationNo information availableGerm Cell MutagenicityNo information availableCarcinogenicityNo information available

Specific target organ systemic toxicity (single exposure)

No information available

Specific target organ systemic toxicity (repeated exposure)

No information available

Target Organ Effects No information available

Aspiration hazard No information available

# 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

**Ecotoxicity effects** 

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants

#### 12.2 Persistence and degradability

No information available

#### 12.3 Bioaccumulative potential

No information available

#### 12.4 Mobility in soil

No information available

#### 12.5 Results of PBT and vPvB assessment

#### 12.6 Other adverse effects

# 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste from residues / unused

products

Dispose of in accordance with local regulations

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or

disposal

# 14. TRANSPORT INFORMATION

IMDG / IMO Not regulated

ICAO/IATA Not regulated

# 15. REGULATORY INFORMATION

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture WGK Classification

#### **International Inventories**

All of the components in the product are on the following Inventory lists: No information available, United States of America (TSCA), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), China (IECSC), Japan (ENCS), Philippines (PICCS).

TSCA Complies
EINECS/ELINCS Complies
DSL/NDSL Complies
PICCS Complies

ENCS Complies
IECSC Complies
AICS Complies
KECL Complies

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances **IECSC** - China Inventory of Existing Chemical Substances **AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

#### 15.2 Chemical Safety Assessment

# **16. OTHER INFORMATION**

Revision Date 25-Sep-2013

**Revision Note** not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

#### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.