



CERTIFICATE OF ANALYSIS

| | |
|-----------------|----------------|
| Product | Aldehyde C14 |
| Batch number | 4360805 |
| Best before end | May 2021 |
| Odour | Characteristic |
| Appearance | Characteristic |
| SG at 20°C | 0.944 |
| RI at 20°C | 1.450 |

ALLERGEN DECLARATION

We hereby confirm that the following item contains the ingredients listed below. Stated are the total levels added plus! levels from natural ingredients. The information is supplied to enable compliance with the Seventh Amendment to the EU! Cosmetics Directive (76/768/EEC) and the EU Detergents Directive (648/2004/EC).

Aldehyde C14 gamma-Undecalactone

| Ingredient | CAS | EC | Concentration (%) |
|-------------------------|-----|----|-------------------|
| There are no allergens. | | | |

Regulatory Affairs Department

IFRA CONFORMITY CERTIFICATE

Product: Aldehyde C14 gamma-Undecalactone

We certify that the above item is in compliance with the Standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA - 48th Amendment / published June 2015), provided it is used in the following classes at a maximum concentration level of:

| IFRA classes [see annex for detail] | Maximum level of use (%) |
|-------------------------------------|--------------------------|
| IFRA Class 1 Limit | Not approved |
| IFRA Class 2 Limit | 100% |
| IFRA Class 3.A Limit | 100% |
| IFRA Class 3.B Limit | 100% |
| IFRA Class 3.C Limit | 100% |
| IFRA Class 3.D Limit | 100% |
| IFRA Class 4.A Limit | 100% |
| IFRA Class 4.B Limit | 100% |
| IFRA Class 4.C Limit | 100% |
| IFRA Class 4.D Limit | 100% |
| IFRA Class 5 Limit | 100% |
| IFRA Class 6 Limit | Not approved |
| IFRA Class 7.A Limit | 100% |
| IFRA Class 7.B Limit | 100% |
| IFRA Class 8.A Limit | 100% |
| IFRA Class 8.B Limit | 100% |
| IFRA Class 9.A Limit | 100% |
| IFRA Class 9.B Limit | 100% |
| IFRA Class 9.C Limit | 100% |
| IFRA Class 10.A Limit | 100% |
| IFRA Class 10.B Limit | 100% |
| IFRA Class 11 Limit | 100% |

IFRA CONFORMITY CERTIFICATE

For other kinds of application or use at higher concentration levels, a new evaluation may be needed; please contact MADAR Corporation Limited.

Does not contain any substance restricted by the current IFRA Standards.

The IFRA Standards regarding use restrictions are based on safety assessments by the Panel of Experts of the RESEARCH INSTITUTE FOR FRAGRANCE MATERIALS (RIFM) and are enforced by the IFRA Scientific Committee.

Evaluation of individual Fragrance ingredients is made according to the safety standards contained in the relevant section of the IFRA Code of Practice.

It is the ultimate responsibility of our customer to ensure the safety of the final product (containing this fragrance) by further testing if need be.

Regulatory Affairs Department

IFRA CONFORMITY CERTIFICATE

ANNEX: Definition of IFRA Classes

| Finished product types | IFRA class |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.); Children's Toys | IFRA Class 1 Limit |
| Deodorant and Antiperspirant Products of all types including any product with intended or reasonably foreseeable use on the axillae or labelled as such (spray, stick, roll-on, under-arm, deo-cologne and body spray, etc.); Nose pore strips; Fragranced Bracelets | IFRA Class 2 Limit |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave) (Edt range) | IFRA Class 3.A Limit |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave) (Fine fragrance range) | IFRA Class 3.B Limit |
| Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc.) including eye care; Men's Facial Creams and Balms; Baby Creams, Lotions, Oils; Body Paint for Children | IFRA Class 3.C Limit |
| Tampons | IFRA Class 3.D Limit |
| Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum (Edt range); Ingredients of Perfume Kits; Scent Pads, Foil packs; Scent Strips for hydroalcoholic products | IFRA Class 4.A Limit |
| Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum (Fine fragrance range) | IFRA Class 4.B Limit |
| Hair Styling Aids Sprays of all types (pumps, aerosol sprays, etc.); Body Creams, Oils, Lotions of all types (except baby creams, lotions and oils); Body sprays (including Body Mist) with no intended or reasonably foreseeable use on the axillae; Fragrance Compounds for Cosmetic Kits; Foot Care Products; Hair deodorant; Body Paint (except those for children) | IFRA Class 4.C Limit |
| Fragrancing Cream; Solid perfumes | IFRA Class 4.D Limit |
| Women's Facial Creams/Facial Make-up; Hand Cream; Hand sanitizers; Facial Masks; Baby Powder and Talc; Hair Permanent and other hair chemical treatments (e.g. relaxers) but not hair dyes; Wipes or Refreshing Tissues for Face, Neck, Hands, Body; Dry Shampoo or Waterless Shampoo | IFRA Class 5 Limit |
| Mouthwash, including Breath Sprays; Toothpaste | IFRA Class 6 Limit |
| Intimate Wipes; Baby Wipes | IFRA Class 7.A Limit |
| Insect Repellent (intended to be applied to the skin) | IFRA Class 7.B Limit |
| Make-up Removers of all types (not including face cleansers); Hair Styling Aids Non-Spray of all types (mousse, gels, leave-in conditioners, etc.); Nail Care; Powders and talcs, all types (except baby powders and talcs) | IFRA Class 8.A Limit |
| Hair Dyes | IFRA Class 8.B Limit |
| Conditioner (Rinse-Off); Liquid Soap; Shampoos of all types (including baby shampoos); Face Cleansers of all types (washes, gels, scrubs, etc.); Shaving Creams of all types (stick, gels, foams, etc.); All Depilatories (including waxes for mechanical hair removal); Body Washes of all types (including baby washes) and Shower Gels of all types; Bar Soap (Toilet Soap); Bath Gels, Foams, Mousses, Salts, Oils and Other Products added to bathwater | IFRA Class 9.A Limit |
| Feminine hygiene - pads, liners; Toilet paper; Wheat bags | IFRA Class 9.B Limit |
| Facial tissues; Napkins; Paper towels; Other Aerosols (including air freshener sprays and air freshener pump sprays, but not including deodorants/antiperspirants, hair styling aids sprays); Fragranced Face Masks (not intended to be used as medical device) | IFRA Class 9.C Limit |
| Handwash Laundry Detergents of all types including concentrates; Fabric Softeners of all types including fabric softener sheets; Household Cleaning Products, Other Types (fabric cleaners, soft surface cleaners, carpet cleaners, etc.); Machine Wash Laundry Detergents (liquids, powders, tablets, etc.) including laundry bleach and concentrates; Hand Dishwashing Detergent including concentrates; Hard Surface Cleaners of all types (bathroom and kitchen cleansers, furniture polish, etc.); Shampoos for pets; Dry cleaning kits; Scented gloves, socks, tights with moisturizers | IFRA Class 10.A Limit |
| Diapers; Toilet seat wipes | IFRA Class 10.B Limit |
| All non-skin contact or incidental skin contact including: Candles; Air Fresheners and Fragrancing of all types (concentrated aerosol with metered doses (range 0.05-0.5mL/spray), plug-ins, solid substrate, membrane delivery, electrical); Air Delivery Systems; Cell phone cases; Pot pourri, powders, fragrancing sachets, liquid refills for air fresheners (non-cartridge systems), Reed diffusers; Liquid refills for air fresheners (cartridge systems); Shoe Polishes; Deodorizers/Masks not intended for skin contact (e.g. fabric drying machine deodorizers, carpet powders); Insecticides (mosquito coil, paper, electrical, for clothing etc.) excluding aerosols; Scent delivery system using a dry air technology that releases a fragrance without sprays, aerosols or heated oils (technology of nebulization); Air freshening crystals; Toilet Blocks; Joss Sticks or Incense Sticks; Machine Dishwash Detergent and Deodorizers; Machine-only Laundry Detergent (e.g. liquitabs); Plastic articles (excluding toys); Fuels; Fragranced lamp ring; Scent pack; Scratch and Sniff (sampling technology); Paints; Cat litter; Animal sprays (all types); Treatment products for textiles (e.g. starch sprays, fabric treated with fragrances after wash, deodorizers for textiles or fabrics); Floor wax; Odored Distilled Water (that can be added to steam irons) | IFRA Class 11 Limit |

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Aldehyde C14 gamma-Undecalactone

Version: 1

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

1.1 Product Identifier

Product identifier: gamma-Undecalactone; CAS: 104-67-6

Other identifiers: Aldehyde C14

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

Product uses:

1.3 Details of the supplier of the safety data sheet

Company name: MADAR Corporation Limited

Company address: 19-20 Sandleheath Industrial Estate
Fordingbridge
Hampshire
SP6 1PA

E-Mail address: sales@madarcorporation.co.uk

Company phone: +44 (0) 1425 655555

1.4 Emergency telephone number

Emergency phone: +44(0)1425 655555 during office hours

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification under Regulation (EC) No 1272/2008

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

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H335, May cause respiratory irritation.

H412, Harmful to aquatic life with long lasting effects.

Classification under Directive 67/548/EEC

Hazard symbols: N, Dangerous for the environment.

Risk phrases: R51/53, Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Aldehyde C14 gamma-Undecalactone

Version: 1

2.2 Label elements

Classification under Regulation (EC) No 1272/2008

Signal word: None

Hazard statements: H315, Causes skin irritation.
H319, Causes serious eye irritation.
H335, May cause respiratory irritation.
H412, Harmful to aquatic life with long lasting effects.

M factor: None

Supplemental Information: None

Precautionary statements: P261, Avoid breathing vapour or dust.
P264, Wash hands and other contacted skin thoroughly after handling.
P271, Use only outdoors or in a well-ventilated area.
P273, Avoid release to the environment.
P280, Wear protective gloves/eye protection/face protection.
P302/352, IF ON SKIN: Wash with plenty of soap and water.
P304/340, IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305/351/338, IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312, Call a POISON CENTER or doctor/physician if you feel unwell.
P332/313, If skin irritation occurs: Get medical advice/attention.
P337/313, If eye irritation persists: Get medical advice/attention.
P362, Take off contaminated clothing and wash before reuse.
P403/233, Store in a well-ventilated place. Keep container tightly closed.
P405, Store locked up.
P501, Dispose of contents/container to: approved disposal site.

Pictograms:



Other hazards: None

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Aldehyde C14 gamma-Undecalactone

Version: 1

Section 3. Composition / information on ingredients

3.1 Substances

Product identifier: gamma-Undecalactone; CAS: 104-67-6

Section 4. First-aid measures

4.1 Description of first aid measures

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a POISON CENTER or doctor/physician if you feel unwell.

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.

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Aldehyde C14 gamma-Undecalactone

Version: 1

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):

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 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: CLEAR MOBILE LIQUID
COLOURLESS TO LIGHT YELLOW

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Aldehyde C14 gamma-Undecalactone

Version: 1

Odour: STRONG, SUGGESTIVE OF PEACH

pH: Not determined

Initial boiling point / range: Not determined

Flash point: 160 °C

Vapour pressure: Not determined

Relative density: Not determined

Solubility(ies): 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 toxicological effects

Causes skin irritation.

Causes serious eye irritation.

May cause respiratory irritation.

Assumed Toxicity Value (LD50 or ATE) for Acute Oral Toxicity: Not Applicable

Assumed Toxicity Value (LD50 or ATE) for Acute Dermal Toxicity: Not Applicable

Assumed Toxicity Value (LC50 or ATE) for Acute Inhalation Toxicity: Not Available

Inhalation Route: Not Available

Refer to Section 2 for additional information.

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Aldehyde C14 gamma-Undecalactone

Version: 1

Section 12. Ecological information

12.1 Toxicity:

Harmful to aquatic life with long lasting effects.

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 assessment:

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

12.6 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: Not classified

14.2 UN Proper Shipping Name: Not classified

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

Key to revisions:

SAFETY DATA SHEET

In accordance with REACH Regulation EC No.1907/2006

Product: Aldehyde C14 gamma-Undecalactone

Version: 1

Not applicable

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.



SPECIFICATION

| | |
|---------------------------|---------------------------------------------------------------------------------------------------------------------|
| Product: | Aldehyde C14 (gamma-undecalactone) |
| Cas no | 104-67-6 |
| Odour: | Fruity, peach. |
| Appearance: | Colourless to pale yellow, clear oily liquid |
| Density @ 20°C: | 0.942 - 0.948 |
| R.I . @ n/20°C: | 1.449 - 1.454 |
| Country of Origin: | China |
| GMO Status: | This product does not contain, nor has it been subjected to GMOs through their respective manufacturing process. |
| Vegan Suitability: | This product is suitable for vegetarians and vegans. |

Updated 06.03.19