

## SAFETY DATA SHEET

GHS: According to 2015/830/EU

*Code Number* 800073  
*Version 10 Revised 13/05/2021 12:56:26*

### Section 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product Identifier

Product Name 2-ETHYL-5-METHYL-4-HYDROXY-3(2H) FURANONE (ETHYL FURANONE)  
Code Number 800073  
Alternative Name  
REACH Reg No Not registered

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

This material is not for use in tobacco/tobacco products, E-Cigarettes or similar devices.  
See Section 16 Disclaimer.

#### 1.3 Details of the supplier of the safety data sheet

De Monchy Aromatics Limited  
Blackhill Road,  
Holton Heath Industrial Park,  
Holton Heath,  
Poole, Dorset  
BH16 6LS, UK  
Telephone Number +44 (0)1202 620888  
Email Address technical.department@demonchyaromatics.com

#### 1.4 Emergency Tel No +44 (0)1202 653646

### Section 2. Hazard Identification

#### 2.1 Classification of the substance or mixture

ATO 4 Acute toxicity, oral, category 4  
SCI 2 Skin corrosion/irritation, category 2  
EDI 2A Eye damage/irritation, category 2A  
EH A2 Aquatic hazard, acute, category 2

#### 2.2 Label elements

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GHS classification according to Regulation (EC) No 1272/2008

Hazard Pictograms



Signal Word Warning

Hazard Statements

|      |                               |
|------|-------------------------------|
| H302 | Harmful if swallowed          |
| H315 | Causes skin irritation        |
| H319 | Causes serious eye irritation |
| H401 | Toxic to aquatic life         |

Precautionary Statements

|           |  |
|-----------|--|
| P264      | Wash hands thoroughly after handling                   |
| P270      | Do not eat, drink or smoke when using this product.    |
| P273      | Avoid release to the environment.                      |
| P280      | Wear protective gloves and eye protection              |
| P301+P312 | IF SWALLOWED: Call a POISON CENTRE if you feel unwell. |
| P302+P352 | IF ON SKIN: Wash with plenty of water.                 |

## 2.3 Other Hazards

Contains nothing known from the allergens list which may produce an allergic reaction  
No further information available at this time

## Section 3. Composition / information on ingredients

Any percentage values listed here for hazardous components are for illustrative purposes only

### 3.1 Substances

|              |  |
|--------------|--|
| Description  | 2-ETHYL-5-METHYL-4-HYDROXY-3(2H) FURANONE (ETHYL FURANONE) |
| EC/EINECS    | 248-513-0  |
| CAS Number   | 27538-09-6   |
| USCAS Number | 27538-09-6   |

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## Section 4. First Aid measures

Take phrases in section 2 into account

### 4.1 Description of first aid measures

After inhalation

Remove from the exposure area to fresh air. Contact a doctor if necessary.

After skin contact

Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation persists or there is any sign of tissue damage.

After eye contact

Flush with plenty of water and seek medical advice if necessary.

After ingestion

Wash mouth with plenty of water and obtain medical advice immediately.

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

No further information available at this time

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

No further information available at this time

## Section 5. Fire-fighting measures

### 5.1 Extinguishing Media

Carbon dioxide, foam or dry powder  
DO NOT USE A DIRECT WATER JET.

### 5.2 Special hazards arising from the substance or mixture

May produce Carbon dioxide and unidentified organic compounds.

### 5.3 Advice for fire-fighters

Wear protective clothing and avoid inhalation of vapours.

## Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.  
Avoid inhalation, skin and eye contact.  
Ensure proper ventilation.

### 6.2 Environmental precautions

Do not discharge directly into drains or the soil. Keep away from surface and ground water

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## 6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbant material such as earth or vermiculite; transfer used material to a suitable waste container and dispose in accordance with regulations.

## 6.4 Reference to other sections

Refer to information in Sections 7, 8 and 13

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

Maintain good occupational and personal hygiene. Avoid inhalation and contact with skin and eyes.

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

Sealed containers in a cool dark place. Check quality before use.

### 7.3 Specific end use(s)

No further information available

## Section 8. Exposure controls / personal protection

### 8.1 Control Parameters

No information available

### 8.2 Exposure controls

Engineering controls

No information available

Individual protection measures

Refer to Section 5 for specific fire/chemical personal protective equipment advice. Always wash routinely before breaks, meals and at the end of the work period.

Eye/face protection

Wear safety goggles.

Hand protection

Wear chemically resistant disposable gloves.

Other skin protection

Wear overalls. Always wash routinely before breaks, meals and at the end of the work period.

Respiratory protection

Not generally required. Use inhalation protection in poorly ventilated areas

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Thermal hazards

No information available

Environmental exposure controls

No information available

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                           |   |
|---------------------------|---|
| FLASH POINT (°C)          | 96.00                                   |
| APPEARANCE                | Pale yellow to yellow liquid            |
| ODOUR DESCRIPTION         | Sweet, bready, reminiscent of caramel   |
| RELATIVE DENSITY @20C     | 1.135 to 1.145                          |
| VAPOUR PRESSURE           | No data available                       |
| AUTO-IGNITION TEMPERATURE | No data available                       |
| ODOUR THRESHOLD           | No data available                       |
| pH                        | Not applicable for this product         |
| EVAPORATION RATE          | No data available                       |
| VAPOUR DENSITY            | No data available                       |
| PARTITION COEFFICIENT     | No data available                       |
| DECOMPOSITION TEMPERATURE | No data available                       |
| VISCOSITY                 | No data available                       |
| EXPLOSIVE PROPERTIES      | Not determined (material not explosive) |
| OXIDISING PROPERTIES      | Not determined (not an oxidising agent) |

### 9.2 Other information

No further information available

## Section 10. Stability and reactivity

### 10.1 Reactivity

Not determined

### 10.2 Chemical Stability

Not determined

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## 10.3 Possibility of hazardous reactions

Not determined

## 10.4 Conditions to avoid

Extreme temperatures

## 10.5 Incompatible materials

Highly reactive chemicals which may produce unknown reaction products and so cause additional hazards.

## 10.6 Hazardous decomposition products

Not determined

## Section 11. Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

ETHYL FURANONE (CAS: 27538-09-6)

Oral route: Data not available

Skin corrosion / irritation

No data available

Serious eye damage / irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

STO-single exposure

No data available

STO-repeated exposure

No data available

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Aspiration hazard

No data available

Information on likely routes of exposure

No data available

Symptoms related to the physical, chemical and toxicological characteristics

No data available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

No data available

Interactive effects

No data available

Other information

No data available

## Section 12. Ecological information

### 12.1 Toxicity

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

No data available

### 12.6 Other adverse effects

No data available

## Section 13. Disposal considerations

Please refer to the information in section 8 (Exposure controls and personal protection)

### 13.1 Waste treatment methods

Dispose in accordance with the law and local regulations. Treat as trade effluent.

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## Section 14. Transport information

- 14.1 UN number                    -
- 14.2 UN proper shipping name    NOT REGULATED
- 14.3 Transport hazard class(es) -
- 14.4 Packing group                -
- Tunnel Code
- 14.5 Environmental Hazards  
No relevant information available
- 14.6 Special precautions for user  
No relevant information available
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
Not applicable

## Section 15. Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
No relevant information available at this time
- 15.2 Chemical safety assessment  
A chemical safety assessment has not been carried out

## Section 16. Other information

### Full list of precautionary phrases

- |           |  |
|-----------|--|
| P264      | Wash hands thoroughly after handling                     |
| P270      | Do not eat, drink or smoke when using this product.      |
| P273      | Avoid release to the environment.                        |
| P280      | Wear protective gloves and eye protection                |
| P301+P312 | IF SWALLOWED: Call a POISON CENTRE if you feel unwell.   |
| P302+P352 | IF ON SKIN: Wash with plenty of water.                   |
| P305      | IF IN EYES:  |
| P330      | Rinse mouth.   |
| P332+P313 | If skin irritation occurs: Get medical advice/attention. |
| P337+P313 | If eye irritation persists: Get medical attention.       |

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|           |  |
|-----------|--|
| P351      | Rinse cautiously with water for several minutes.         |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P501      | Dispose of contents/container to contents and container. |

## References and further information

This product has not been tested, nor deemed safe, for use in tobacco/tobacco products, electronic cigarettes or similar devices. De Monchy Aromatics Limited instructs all customers not to use this material in the manufacture of tobacco / tobacco products, E-Cigarettes or any component thereof unless each customer takes all necessary steps to ensure its suitability and safety for such use.

Information in this SDS has been obtained from either measured values or from available published sources and is believed to be accurate. No warranty, express or implied, is made and De Monchy Aromatics Limited assumes no liability resulting from the use of this SDS. The information is offered in good faith but users of this material need to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment and must determine suitability of this information for their application.

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## IFRA Conformity Certificate

*Compound Name* : 2-ETHYL-5-METHYL-4-HYDROXY-3(2H) FURANONE (ETHYL FURANONE)

*Code Number* : 800073

We certify that the above compound is in compliance with the standards of the INTERNATIONAL FRAGRANCE ASSOCIATION (IFRA-48th amendment), provided it is used at a maximum concentration level of:

| IFRA category (*) | Maximum level of use (%) (w/w) (**) |
|-------------------|-------------------------------------|
| 1 (***)           | N/A (***)                           |
| 2                 | N/A                                 |
| 3A                | N/A                                 |
| 3B                | N/A                                 |
| 3C                | N/A                                 |
| 3D                | N/A                                 |
| 4A                | N/A                                 |
| 4B                | N/A                                 |
| 4C                | N/A                                 |
| 4D                | N/A                                 |
| 5                 | N/A                                 |
| 6 (***)           | N/A (***)                           |
| 7A                | N/A                                 |
| 7B                | N/A                                 |
| 8A                | N/A                                 |
| 8B                | N/A                                 |
| 9A                | N/A                                 |
| 9B                | N/A                                 |
| 9C                | N/A                                 |
| 10A               | N/A                                 |
| 10B               | N/A                                 |
| 11                | N/A                                 |

(\*) See annex for definition of IFRA categories

(\*\*) Usage limit N/A = Not Applicable; no IFRA restrictions

(\*\*\*) IFRA would recommend that any material used to impart perfume or flavour in products intended for human ingestion should consist of ingredients that are in compliance with appropriate regulations for foods and food flavourings

For other kinds of application or use at higher concentrations, a new safety evaluation may be needed; please contact De Monchy Aromatics Limited

The IFRA Standards regarding 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.

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Annex: Definition of IFRA QRA categories

| Finished Product Types   | IFRA category |
|--|---------------|
| Lip Products of all types (solid and liquid lipsticks, balms, clear or colored, etc.)<br>Children's Toys   | 1             |
| 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.)<br>Nose Pore Strips<br>Fragranced Bracelets   | 2             |
| Hydroalcoholic Products Applied To Recently Shaved Skin<br>(includes After Shave) - EdT  | 3A            |
| Hydroalcoholic Products Applied To Recently Shaved Skin<br>(includes After Shave) - Fine Fragrance   | 3B            |
| Eye Products of all types (eye shadow, mascara, eyeliner, eye make-up, etc.) including eye care<br>Men's Facial Creams and Balms<br>Baby Creams, Lotions, Oils<br>Body Paint for Children  | 3C            |
| Tampons  | 3D            |
| EdT - Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum<br>Ingredients of Perfume Kits<br>Scent Pads, Foil packs<br>Scent Strips for hydroalcoholic products   | 4A            |
| Fine Fragrance - Hydroalcoholic Products applied to unshaved skin (includes aqueous based, alcoholic based and hydroalcoholic) like Cologne, eau de cologne, Eau de Parfum or Parfum   | 4B            |
| Hair Styling Aids Sprays of all types (pumps, aerosol sprays, etc.)<br>Body Creams, Oils, Lotions of all types (except baby creams, lotions and oils)<br>Body sprays (including Body Mist) with no intended or reasonably foreseeable use on the axillae<br>Fragrance Compounds for Cosmetic Kits<br>Foot Care Products<br>Hair deodorant<br>Body Paint (except those for children)  | 4C            |
| Fragrancing Cream, Solid Perfumes  | 4D            |
| Facial Masks<br>Women's Facial Creams/Facial Make-up, Hand Cream, Hand sanitizers, 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  | 5(*)<br>5     |
| Mouthwash, including Breath Sprays, Toothpaste   | 6             |
| Intimate Wipes, Baby Wipes   | 7A            |
| Insect Repellent (intended to be applied to the skin)  | 7B            |
| Make-up Removers of all types (not including face cleansers), Hair Styling Aids Non-Spray of all types (mousse, gels, leave-conditioners, etc.),<br>Nail Care, Powders and talcs, all types (except baby powders and talcs)  | 8A            |
| Hair Dyes  | 8B            |
| 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 | 9A            |
| Feminine hygiene - pads, liners, Toilet paper, Wheat bags  | 9B            |
| 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)   | 9C            |

Annex: Definition of IFRA QRA categories - continued

| Finished Product Types   | IFRA category |
|--|---------------|
| 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  | 10A           |
| Diapers, Toilet seat wipes   | 10B           |
| <p>All non-skin contact or incidental skin contact including:</p> <p>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/Maskers 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, 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)</p> | 11            |

\* Class 5, Facial masks: There are several types of masks: peel off (similar to rinse-off, rinse-off and leave-on (you only remove the excess with a facial tissue). To ease the split the most restrictive, i.e. leave-on is applied for all.

\*\* Liquitabs corresponds to a dose of liquids wrapped in a film: no contact with hands is expected under normal conditions of use

The table was prepared with the intention to cover the vast majority of the products; however it may not cover some specific applications. In this case other classes may be attributed based on a specific risk assessment.

## Allergen Analysis

*Compound Name* : 2-ETHYL-5-METHYL-4-HYDROXY-3(2H) FURANONE (ETHYL FURANONE)

*Code Number* : 800073

| ingredient   | CAS No.   | Concentration present as a percentage (%) or 'A' for absent in |                              |       |
|--|---|--|------------------------------|-------|
|  |   | Added as such  | From natural & other sources | Total |
| alpha-iso-Methylionone                               | 127-51-5  | A  | A                            | A     |
| Amyl Cinnamal  | 122-40-7  | A  | A                            | A     |
| Amylcinnamyl Alcohol                                 | 101-85-9  | A  | A                            | A     |
| Anise Alcohol  | 105-13-5  | A  | A                            | A     |
| Benzyl Alcohol                                       | 100-51-6  | A  | A                            | A     |
| Benzyl Benzoate                                      | 120-51-4  | A  | A                            | A     |
| Benzyl Cinnamate                                     | 103-41-3  | A  | A                            | A     |
| Benzyl Salicylate                                    | 118-58-1  | A  | A                            | A     |
| Butylphenyl Methylpropional (Lilial)                 | 80-54-6   | A  | A                            | A     |
| Cinnamal   | 104-55-2  | A  | A                            | A     |
| Cinnamyl Alcohol                                     | 104-54-1  | A  | A                            | A     |
| Citral   | 106-26-3<br>141-27-5<br>5392-40-5   | A  | A                            | A     |
| Citronellol  | 106-22-9<br>1117-61-9<br>141-25-3<br>6812-78-8<br>68916-43-8<br>7540-51-4 | A  | A                            | A     |
| Coumarin   | 91-64-5   | A  | A                            | A     |
| Eugenol  | 97-53-0   | A  | A                            | A     |
| Evernia Furfuraceae (Tree Moss) Extract              | 90028-67-4  | A  | A                            | A     |
| Evernia Prunastri (Oak Moss) Extract                 | 90028-68-5  | A  | A                            | A     |
| Farnesol   | 4602-84-0   | A  | A                            | A     |
| Geraniol   | 106-24-1  | A  | A                            | A     |
| Hexyl Cinnamal                                       | 101-86-0  | A  | A                            | A     |
| Hydroxycitronellal                                   | 107-75-5  | A  | A                            | A     |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral) | 31906-04-4  | A  | A                            | A     |
| Isoeugenol   | 97-54-1   | A  | A                            | A     |
| Limonene   | 138-86-3<br>5989-27-5<br>5989-54-8<br>7705-14-8                           | A  | A                            | A     |
| Linalool   | 126-90-9<br>126-91-0<br>78-70-6   | A  | A                            | A     |
| Methyl 2-Octynoate                                   | 111-12-6  | A  | A                            | A     |

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## Ingredient Declaration for label

*Compound Name : 2-ETHYL-5-METHYL-4-HYDROXY-3(2H) FURANONE (ETHYL FURANONE)*

*Code Number : 800073*

Suggested labelling for foodstuffs according to (EU) 1169/2011

*Flavour labelling*            **Flavouring substance**

*Contains:*

Legal Composition

*List of flavouring categories and other ingredients in descending order of weight*

*Any substances which are restricted in food are listed below*

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## Food Allergen Declaration

According to (EU) 1169/2011

*Compound Name : 2-ETHYL-5-METHYL-4-HYDROXY-3(2H) FURANONE (ETHYL FURANONE)*

*Code Number : 800073*

We have carefully reviewed the ingredients in this product.

| Allergen Source   | Present |
|---|---------|
| Celery and products thereof   | No      |
| Crustaceans and products thereof  | No      |
| Eggs and products thereof   | No      |
| Fish and products thereof   | No      |
| Cereals containing gluten ( i.e. wheat, rye, barley, oats, spelt, kamut or their hybridised strains) and products thereof               | No      |
| Lupin and products thereof  | No      |
| Milk and products thereof (including lactose)   | No      |
| Molluscs and products thereof   | No      |
| Mustard and products thereof  | No      |
| Nuts i.e. Almond, Hazelnut, Walnut, Cashew, Pecan nut, Brazil nut, Pistachio nut, Macadamia nut and Queensland nut and products thereof | No      |
| Peanuts and products thereof  | No      |
| Sesame seeds and products thereof   | No      |
| Soybeans and products thereof   | No      |
| Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO <sub>2</sub>                       | No      |

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*The information contained herein is true and accurate to the best of our knowledge. All information is valid until revisions are issued. We will not therefore accept liability for misuse of this data resulting in damage or loss.*

## Vegetarian Declaration

*Compound Name : 2-ETHYL-5-METHYL-4-HYDROXY-3(2H) FURANONE (ETHYL FURANONE)*

*Code Number : 800073*

|                      |   |   |
|----------------------|---|---|
| Vegan                | Y | Free from all animal products or animal by-products including eggs, milk products, honey and free from all products or by-products of the fishing industry, including additives and processing aids             |
| Vegetarian           | Y | Free from all animal products or animal by-products with the exception of eggs, milk products, honey and free from all products or by-products of the fishing industry, including additives and processing aids |
| Ovo-lacto Vegetarian | Y | May include egg, dairy and bee products. No other ingredients of animal origin or animal derivatives, including additives and processing aids are allowed   |

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## GMO Declaration

According to 1829/2003/EC

*Compound Name : 2-ETHYL-5-METHYL-4-HYDROXY-3(2H) FURANONE (ETHYL FURANONE)*

*Code Number : 800073*

We have carefully reviewed the ingredients in this product for their potential genetically modified (GM) origin. The list includes ingredients which may be produced from other GM ingredients

| Material          | Present | Of GMO Origin |
|-------------------|---------|---------------|
| Chicory           | No      | -             |
| Cotton            | No      | -             |
| Maize             | No      | -             |
| Potato            | No      | -             |
| Rapeseed (Canola) | No      | -             |
| Soya              | No      | -             |
| Sugar Beet        | No      | -             |
| Tomato            | No      | -             |
| Wheat             | No      | -             |

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