

SAFETY DATA SHEET

GHS: According to 2015/830/EU

Code Number 800138

Version 7 Revised 20/08/2021 13:09:14

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

1.1 Product Identifier

Product Name ISOVALERALDEHYDE
Code Number 800138
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

FL 2 Flammable liquid, category 2
ATO 5 Acute toxicity, oral, category 5
SCI 3 Skin corrosion/irritation, category 3
SS 1 Skin sensitisation, category 1
EDI 2A Eye damage/irritation, category 2A
STO-SE 3(RI) Specific target organ, single exposure, respiratory irritation
EH A2 Aquatic hazard, acute, category 2
EH C2 Aquatic hazard, long term, category 2

2.2 Label elements

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

Hazard Pictograms



Signal Word Danger

Hazard Statements

| | |
|------|---|
| H225 | Highly flammable liquid and vapour |
| H303 | May be harmful if swallowed |
| H316 | Causes mild skin irritation |
| H317 | May cause an allergic skin reaction |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H401 | Toxic to aquatic life |
| H411 | Toxic to aquatic life with long lasting effects |

Precautionary Statements

| | |
|----------------|--|
| P241 | Use explosion-proof equipment. |
| P261 | Avoid breathing fumes. |
| P264 | Wash hands thoroughly after handling |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| P304+P312 | IF INHALED: Call a POISON CENTRE if you feel unwell. |

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

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3.1 Substances

| | |
|--------------|------------------|
| Description | ISOVALERALDEHYDE |
| EC/EINECS | 209-691-5 |
| CAS Number | 590-86-3 |
| USCAS Number | 590-86-3 |

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.

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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

6.3 Methods and material for containment and cleaning up

Soak up spillage with sand or other inert absorbant material such as earth or vemiculite; 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

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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

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) | -1.00 |
| APPEARANCE | Colourless to pale yellow/green liquid |
| ODOUR DESCRIPTION | Fatty, reminiscent of chocolate/peach |
| RELATIVE DENSITY @20C | 0.794 to 0.814 |
| 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 |

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| | |
|----------------------|---|
| 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

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

ISOVALERALDEHYDE (CAS: 590-86-3)

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

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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

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

No data available; avoid soil, surface water and water-bearing stratum contamination.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

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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.

Section 14. Transport information

14.1 UN number 2058

14.2 UN proper shipping name VALERALDEHYDE

14.3 Transport hazard class(es) 3

14.4 Packing group II

Tunnel Code (D/E)

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

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Section 16. Other information

Full list of precautionary phrases

| | |
|----------------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P241 | Use explosion-proof equipment. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P261 | Avoid breathing fumes. |
| P264 | Wash hands thoroughly after handling |
| P271 | Use only outdoors or in a well-ventilated area. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves and eye protection |
| P302+P352 | IF ON SKIN: Wash with plenty of water. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. |
| P304+P312 | IF INHALED: Call a POISON CENTRE if you feel unwell. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P305 | IF IN EYES: |
| P333+P313 | If skin irritation or rash occurs: Get medical advice. |
| P337+P313 | If eye irritation persists: Get medical attention. |
| P351 | Rinse cautiously with water for several minutes. |
| P362+P364 | Take off contaminated clothing and wash it before reuse. |
| P391 | Collect spillage. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P403+P235 | Store in a well-ventilated place. Keep cool. |
| P405 | Store locked up. |
| 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.

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IFRA Conformity Certificate

Compound Name : ISOVALERALDEHYDE

Code Number : 800138

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.) 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.) Nose Pore Strips Fragranced Bracelets | 2 |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave) - EdT | 3A |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave) - Fine Fragrance | 3B |
| 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 | 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 Ingredients of Perfume Kits Scent Pads, Foil packs 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.) 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) | 4C |
| Fragrancing Cream, Solid Perfumes | 4D |
| Facial Masks 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(*) 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.), 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. liquid tabs)*, 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.

** Liquid tabs 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 : ISOVALERALDEHYDE

Code Number : 800138

| 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 | 106-26-3 141-27-5 5392-40-5 | A | A | A |
| Citronellol | 106-22-9 1117-61-9 141-25-3 6812-78-8 68916-43-8 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 5989-27-5 5989-54-8 7705-14-8 | A | A | A |
| Linalool | 126-90-9 126-91-0 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 : ISOVALERALDEHYDE

Code Number : 800138

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 : ISOVALERALDEHYDE

Code Number : 800138

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 ₂ | No |

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Vegetarian Declaration

Compound Name : ISOVALERALDEHYDE

Code Number : 800138

| | | |
|----------------------|---|---|
| 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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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.*

GMO Declaration

According to 1829/2003/EC

Compound Name : ISOVALERALDEHYDE

Code Number : 800138

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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