De Monchy Aromatics Limited BLACKHILL ROAD, HOLTON HEATH INDUSTRIAL PARK, HOLTON HEATH, POOLE, DORSET BH16 6LS UK tel: +44 (0)1202 620888 fax: +44(0)1202 620999



| SAFETY DATA SHEET GHS: According to 2015/830/EU | |
|--|---|
| Code Number Version 8 Revised 10/1 | 800298 1/2020 15:06:11 |
| Section 1. Identification | n of the substance/mixture and of the company/undertaking |
| 1.1 Product I dentifier | |
| Product Name | 2,3,5-TRIMETHYLPYRAZINE EU NATURAL |
| Code Number | 800298 |
| Alternative Name | |
| REACH Reg No | Not registered |
| | I uses of the substance or mixture and uses advised against |
| | _ |
| This material is not for See Section 16 Disclair | use in tobacco/tobacco products, E-Cigarettes or similar devices. mer. |
| 1.3 Details of the supp | lier 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 3 | Flammable liquid, category 3 |
| ATO 4 | Acute toxicity, oral, category 4 |
| 2.2 Label elements | |
| GHS classification according to Regulation (EC) No 1272/2008 | |
| Hazard Pictograms | |
| | \wedge \wedge |
| | |
| | ビダンベ V > |
| | |
| | V V |
| Signal Word | Warning |

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| | Hazard Statement | S |
|----|---|---|
| | H226 | Flammable liquid and vapour |
| | H302 | Harmful if swallowed |
| | Precautionary Stat | tements |
| | P241 | Use explosion-proof equipment. |
| | P264 | Wash hands thoroughly after handling |
| | P280 | Wear protective gloves and eye protection |
| | P301+P312 | IF SWALLOWED: Call a POISON CENTRE if you feel unwell. |
| 2 | .3 Other Hazards | |
| ~ | | own from the allergens list which may produce an allergic reaction |
| | 0.10% and above th suspected of causing | nowever, contain traces of acetamide and for acetamide levels of his represents an H351 hazard (indicating that acetamide is g cancer). Please refer to the Certificate of Analysis for details of the e present in idividual batches. |
| Se | - | on / information on ingredients here for hazardous components are for illustrative purposes only |
| 3 | .1 Substances | |
| | Description 2 | ,3,5-TRIMETHYLPYRAZINE EU NATURAL |
| | EC/EINECS 2 | 38-712-0 |
| | | 4667-55-1 |
| | USCAS Number 1 | 4667-55-1 |
| Se | ection 4. First Aid m | ieasures |
| Т | ake phrases in section | ר 2 into account |
| 4 | .1 Description of fir | st aid measures |
| | After inhalation | |
| | | posure area to fresh air. Contact a doctor if necessary. |
| | After skin contact | |
| | | ed clothing. Wash thoroughly with soap and water. Seek medical ersists or there is any sign of tissue damage. |
| | | |
| | This information is valid | when issued by De Menchy Arematics I to an any of its subsidiaries |

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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

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

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| 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 |
| Thermal hazards No information available |
| Environmental exposure controls No information available |
| |

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Section 9. Physical and chemical properties

| 9.1 Information on basic physical and chemical properties FLASH POINT (°C) 54.00 | | |
|---|--|--|
| APPEARANCE | Colourless to Yellow Liquid | |
| ODOUR DESCRIPTION | musty, nutty, odour reminiscent of cocoa | |
| RELATIVE DENSITY @20C | 0.974 to 0.988 | |
| VAPOUR PRESSURE | No data available | |
| AUTO-IGNITION TEMPERATURE | No data available | |
| ODOUR THRESHOLD | No data available | |
| рН | Not applicable for this product | |
| EVAPORATION RATE | No data available | |
| VAPOUR DENSITY | No data available | |
| PARTITION COEFFICIENT | No data available | |
| DECOMPOSTION 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 | | |
| 10.3 Possibility of hazardous read Not determined | tions | |
| 10.4 Conditions to avoid Extreme temperatures | | |
| | | |

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|---|--|
| | 10.5 Incompatible materials Highly reactive chemicals which may produce unknown reaction products and so can additional hazards. 10.6 Hazardous decomposition products |
| | Not determined |
| ç | Section 11. Toxicological information |
| | 11.1 Information on toxicological effects |
| | Acute toxicity 2,3,5-TRIMETHYLPYRAZINE EU NATURAL (CAS: 14667-55-1) 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 |
| | Aspiration hazard No data available |
| | Information on likely routes of exposure No data available |

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| SAFETY DATA SHEET GHS: According to 2015/830/EU | |
|---|--|
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| Symptoms related to the physica No data available | II, chemical and toxicological characteristics |
| Delayed and immediate effects a long-term exposure No data available | s well as chronic effects from short and |
| 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 asses No data available | ssment |
| 12.6 Other adverse effects No data available | |
| Section 13. Disposal considerations Please refer to the information in section | on 8 (Exposure controls and personal protection) |
| 13.1 Waste treatment methods Dispose in accordance with the law a | and local regulations. Treat as trade effluent. |
| Section 14. Transport information | |
| 14.1 UN number 1 | 993 |
| | LAMMABLE LIQUID, N.O.S. (2,3,5-TRIMETHYL YRAZINE) |

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|--|--|--|
| 14.3 Transport hazarc | class(es) 3 | |
| 14.4 Packing group | 111 | |
| Tunnel Code | (D/E) | |
| 14.5 Environmental H | azards | |
| No relevant information | on available | |
| 14.6 Special precaution | | |
| No relevant information | n available | |
| 14.7 Transport in bulk Not applicable | according to Annex II of MARPOL73/78 and the IBC Code | |
| Section 15. Regulatory | information | |
| substance or mixture | d environmental regulations/legislation specific for the | |
| 15.2 Chemical safety a | | |
| - | essment has not been carried out | |
| Section 16. Other infor | | |
| | | |
| 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. | |
| P264 | Wash hands thoroughly after handling | |
| P270 | Do not eat, drink or smoke when using this product. | |
| P280 | Wear protective gloves and eye protection | |
| P301+P312 | IF SWALLOWED: Call a POISON CENTRE if you feel unwell. | |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. | |
| P330 | Rinse mouth. | |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. | |
| | | |
| P403+P235 | Store in a well-ventilated place. Keep cool. | |

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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

: 2,3,5-TRIMETHYLPYRAZINE EU NATURAL Compound Name Code Number : 800298

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 |
| 3В | 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 INSTITIUTE 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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| 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 | ЗA |
| Hydroalcoholic Products Applied To Recently Shaved Skin (includes After Shave) - Fine Fragrance | 3В |
| 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) | 88 |
| 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 |

| 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 cleaners, furniture polish, etc.), Shampoos for pets, Dry cleaning kits, Scented gloves, socks, tights with moisturizers | 10A |
| Diapers, Toilet seat wipes | 10B |
| All non-skin contact or incidental skin contact including: | 11 |
| 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) | |

* 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 : 2,3,5-TRIMETHYLPYRAZINE EU NATURAL

Code Number : 800298

| 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 | |
| Amyl Cinnamal | 122-40-7 | A | A | |
| Amylcinnamyl Alcohol | 101-85-9 | A | A | |
| Anise Alcohol | 105-13-5 | A | A | |
| Benzyl Alcohol | 100-51-6 | A | A | |
| Benzyl Benzoate | 120-51-4 | A | A | |
| Benzyl Cinnamate | 103-41-3 | A | A | |
| Benzyl Salicylate | 118-58-1 | A | A | |
| Butylphenyl Methylpropional (Lilial) | 80-54-6 | A | A | |
| Cinnamal | 104-55-2 | A | A | |
| Cinnamyl Alcohol | 104-54-1 | A | A | |
| Citral | 106-26-3 | A | A | |
| | 141-27-5 | | | |
| | 5392-40-5 | | | |
| Citronellol | 106-22-9 | A | А | |
| | 1117-61-9 | | | |
| | 141-25-3 | | | |
| | 6812-78-8 | | | |
| | 68916-43-8 | | | |
| | 7540-51-4 | | | |
| Coumarin | 91-64-5 | A | A | |
| Eugenol | 97-53-0 | A | A | |
| Evernia Furfuraceae (Tree Moss) Extract | 90028-67-4 | A | A | |
| Evernia Prunastri (Oak Moss) Extract | 90028-68-5 | A | A | |
| Farnesol | 4602-84-0 | A | A | |
| Geraniol | 106-24-1 | A | A | |
| Hexyl Cinnamal | 101-86-0 | A | A | |
| Hydroxycitronellal | 107-75-5 | A | A | |
| Hydroxyisohexyl 3-Cyclohexene Carboxaldehyde (Lyral) | 31906-04-4 | A | A | |
| Isoeugenol | 97-54-1 | A | A | |
| Limonene | 138-86-3 | A | A | |
| | 5989-27-5 | | | |
| | 5989-54-8 | | | |
| | 7705-14-8 | | | |
| Linalool | 126-90-9 | A | A | |
| | 126-91-0 | | | |
| | 78-70-6 | | | |
| Methyl 2-Octynoate | 111-12-6 | A | А | |

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| Ingredient Declaration for label |
|---|
| Compound Name : 2,3,5-TRIMETHYLPYRAZINE EU NATURAL |
| Code Number : 800298 |
| Suggested labelling for foodstuffs according to (EU) 1169/2011 |
| <i>Flavour labelling</i> Natural 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

Compound Name : 2,3,5-TRIMETHYLPYRAZINE EU NATURAL

Code Number : 800298

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 SO2 | No |

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| de Number | : 2,3,5-11 : 800298 | RIMETHYLPYRAZINE EU NATURAL |
|-------------------------|------------------------|--|
| 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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According to 1829/2003/EC

Compound Name : 2,3,5-TRIMETHYLPYRAZINE EU NATURAL

Code Number : 800298

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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