

PRODUCT SPECIFICATION – FOOD INGREDIENTS

MAGNESIUM SULPHATE FCC

BRENNTAG N.V.
BRENNTAG Nederland B.V.



1. PRODUCT IDENTIFICATION

| | | | |
|-----------------------------|------------------------|---------------------------|----------------------|
| Product name | MAGNESIUM SULPHATE FCC | | |
| Product number | 13778 | Date of issue: 21/11/2013 | Replaces: 12/03/2013 |
| Origin | Mineral | | |
| Manufacturer | K+S Kali GmbH | | |
| Country | Germany | | |
| Certification manufacturer: | ISO 9001, HACCP, GMP+ | | |

1.1 Composition

| | |
|--------------------------|---|
| Single ingredient | |
| Chemical name | Magnesium sulphate heptahydrate, Magnesium sulfate heptahydrate, Epsom salt |
| Chemical formula | MgSO ₄ ·7H ₂ O |
| Molecular weight | 246,4746 |

1.2 Legislative information

| | |
|-------------------|------------|
| CAS-N° | 10034-99-8 |
| INTRASTAT CODE | 2833210000 |
| EINECS | 231-298-2 |
| Legal declaration | |

2. PRODUCT INFORMATION

| | Unit | Specification | Method |
|--|------|---------------|--------|
|--|------|---------------|--------|

2.1 Physical and Chemical properties

| | | | |
|-------------------------------|-----|------------------------|-----|
| Appearance | | Crystals | |
| Colour | | White | |
| Odour/taste | | - | |
| Purity (on the ignited basis) | % | 99,5 | FCC |
| Assay (MgSO ₄) | wt% | ≈ 49,1 (typical value) | |
| Water (H ₂ O) | wt% | ≈ 50,9 (typical value) | |
| Loss on ignition | % | 40,0 – 52,0 | FCC |

2.2 Microbiological data

N.A.

2.3 Contaminants (EC-Regulation 1881/2006)

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2.3.1 Chemical contaminants

| | | | |
|---------------|-----|-----------------------|-----|
| Na | ppm | ≈ 40 (typical value) | |
| K | ppm | ≈ 230 (typical value) | |
| Ca | ppm | ≈ 60 (typical value) | |
| Cl | ppm | ≈ 80 (typical value) | |
| Selenium (Se) | ppm | max. 30 | FCC |
| Lead (Pb) | ppm | max. 4 | FCC |

2.3.2 Physical contaminants

| | |
|----------------------|-----------------------|
| Foreign body control | Sieve, metaldetection |
|----------------------|-----------------------|

2.4 Nutritional Information (Directive 90/496/EC, amended by 2003/120/EC and 2008/100/EC)

2.4.1 Nutritional Values

| | | | |
|--------------------|-----------|------------------------|--|
| Energy | kJ/100g | - | |
| Energy | kcal/100g | - | |
| Protein | g/100g | 0 | |
| Carbohydrate : | g/100g | 0 | |
| Of which Sugars | g/100g | 0 | |
| Polyols | g/100g | 0 | |
| Starches | g/100g | 0 | |
| Others | g/100g | 0 | |
| Fat : | g/100g | 0 | |
| Of which Saturated | g/100g | 0 | |
| Mono-unsaturated | g/100g | 0 | |
| Poly-unsaturated | g/100g | 0 | |
| Transfatty acids | g/100g | 0 | |
| Cholesterol | mg/100g | 0 | |
| Water | g/100g | ≈ 50,9 (typical value) | |
| Organic acid | g/100g | - | |

2.4.2 Minerals

| | | | |
|-----------|---------|------------------------|--|
| Sodium | mg/100g | ≈ 4 (typical value) | |
| Calcium | mg/100g | ≈ 6 (typical value) | |
| Magnesium | mg/100g | ≈ 9861 (typical value) | |



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| | | | |
|-----------|---------|----------------------|--|
| Potassium | mg/100g | ≈ 23 (typical value) | |
|-----------|---------|----------------------|--|

3. FOOD INTOLERANCES

3.1 Allergens (Directives 2000/13/EC, 2003/89/CE 2007/68/EC)

| | Y / N | Direct Contamination | Cross-Contamination (Risk) |
|--|-------|----------------------|----------------------------|
| Barley | N | N | N |
| Beef | N | N | N |
| Cacao | N | N | N |
| Carrot | N | N | N |
| Celery and celery products | N | N | N |
| Cereals containing gluten and products produced with these (wheat, rye, oats, spelt, barley) | N | N | N |
| Chicken | N | N | N |
| Coriander | N | N | N |
| Crustaceans and Shellfish | N | N | N |
| Eggs and egg products | N | N | N |
| Fish and fish products | N | N | N |
| Glutamate | N | N | N |
| Lupin and products thereof | N | N | N |
| Milk and milk products (incl. Lactose) | N | N | N |
| Molluscs and products thereof | N | N | N |
| Mustard and mustard products | N | N | N |
| Nuts and nut products (almonds, hazelnuts, walnuts) | N | N | N |
| Peanuts and peanut products | N | N | N |
| Pork | N | N | N |
| Sesame and sesame products | N | N | N |
| Soybean and soybean products | N | N | N |
| Sulphite (E221 - E228) | N | N | N |
| Sulphur dioxide (> 10 mg/kg) | N | N | N |

3.2 Suitability for other diets

| | |
|------------|---|
| Vegetarian | Y |
| Vegans | Y |
| Kosher | Y |

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| | |
|--------------------|---|
| Halal | Y |
| Lactose intolerant | Y |
| Coeliacs | Y |

3.3 GMO Declaration, acc. Regulations 298/2008/EC and 1830/2003/EC

MAGNESIUM SULPHATE FCC does not contain genetically modified organisms and is not produced using raw materials of a genetically modified origin. At no stage during production does the product comes into contact with genetically modified organisms.

MAGNESIUM SULPHATE FCC is falling under the scope of the EC Regulation n° 1829/2003 on genetically modified food and feed and the EC Regulation n° 1830/2003 on the traceability and labeling of genetically modified organisms and the traceability of products derived from them and to modification of Directive 2001/18/EC.

3.4 Irradiation, acc. Directive 1999/2/EC and 1999/3/EC

This product was not subject to any kind of irradiation treatment

3.5 BSE/TSE Declaration

The used ingredients for MAGNESIUM SULPHATE FCC are not of animal origin. The processing equipment and the packing material which is used to manufacture, pack or fill the products into the packing units do not come into contact with any meat or meat-by product.

3.6 Residual Solvents, complies with

For the manufacturing of the product, no solvents are used. This product is in compliance with the Guideline CPMP/ICH/283/95 and chapter <467> of the current edition of the USP-NF for residual solvents.

3.7 Regulatory information

The product complies with:

FCC

EC Regulation n° 1881/2006 setting maximum levels for certain contaminants in foodstuffs

The production plant complies with:

EC Regulation n° 852/2004 on hygienic requirements for the manufacturing of raw materials in the food industry

4. PACKAGING

| | |
|---------------------------------|-----------------------|
| Packaging description | Bags |
| Packaging net content | 25 kg |
| Different packagings on request | Yes |
| Paletisation | 1000 kg shrinkwrapped |

5. STORAGE CONDITIONS

| | |
|--------------------------------------|--|
| Storage conditions | Must be kept in a cool, dry and well ventilated environment, in closed original packaging. Product is very hygroscopic |
| Shelf life (recommended re-analysis) | 60 months after production, under the above mentioned conditions |

6. DISCLAIMER

The content of the Product Specification Sheet is completed to the best of our knowledge. This document does not dismiss the user of his legal obligation with respect to food safety.

| COMPANY INFORMATION DISTRIBUTOR | | |
|--|--|--|
| name | BRENNTAG N.V. | BRENNTAG Nederland B.V. |
| address | Nijverheidslaan 38 8540 Deerlijk | Donker Duyvisweg 44 3316 BM Dordrecht |
| country | Belgium | The Netherlands |
| phone number | +32 (0)56 77 69 44 | +31 (0)78 65 44 944 |
| fax number | +32 (0)56 77 57 11 | +31 (0)78 65 44 919 |
| website | www.brenntag.be | www.brenntag.nl |
| e-mail | info@brenntag.be | info@brenntag.nl |
| activities | Distribution and export of chemicals and raw materials | |
| VAT number | BE0405317567 | NL001375945B01 |
| recall procedure available | Yes | |
| emergency number (24/365) | +32 (0)56 77 69 44 | +31 (0)78 6544 944 |
| QUALITY SYSTEMS | | |
| ISO 9001 | Yes | Yes |
| ISO 14001 | Yes | Yes |
| ISO 22000 | - | Yes |
| FSSC 22000 | - | Yes |
| GMP+ -feed | Yes | Yes |
| OHSAS18001 | - | Yes |
| ESAD | Yes | Yes |
| other | - | AEO |