

D-(+)-RAFFINOSE PENTAHYDRATE**RAF01 – RAF04****SECTION 1 Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Identification of the product : Raw material
Product code : RAF01 – RAF-04
Trade name : D-(+)-RaffinosePentahydrate
CAS number : 17629-30-0, 512-69-6
EC No: : 208-146-9
Molecular Weight : 594.52 g/mol

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

1.2.1 Relevant identified uses : For research purposes only
1.2.2 Uses advised against No additional information available

1.3. Details of the supplier of the safety data sheet

Company identification : Formedium Ltd.
King's Lynn, England, PE31 6DJ
Tel: +44(0)1485 609069
Web: www.Formedium.com
E-mail: info@formedium.com

1.4. Emergency telephone number

Emergency telephone number : Tel: +44(0)1485 609069 (local time : 9.00 to 17.00)
National Poison Information Centre :Europe UK : +44 0845 4647 (this service is only available to health professionals)
See www.toxbase.org for a local poison centre

SECTION 2 Hazards identification**2.1. Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Not regulated

2.2. Label elements**Labelling according to Regulation (EC) No. 1272/2008**

Hazards pictograms code : None
Precautionary statements : None

2.3 Other hazards

None under normal conditions.

:

D-(+)-RAFFINOSE PENTAHYDRATE**RAF01 – RAF-04****SECTION 3 Composition/information on ingredients****Components** : This product is not classified as hazardous.

| Substance name: | Contents | CAS No: | EC No: |
|------------------------------|----------|----------------------|-----------|
| D-(+)-Raffinose Pentahydrate | 99% | 17629-30-0, 512-69-6 | 208-146-9 |

SECTION 4 First aid measures**4.1. Description of first aid measures**

- General information** : No hazards which require special first aid measures.
Never give anything by mouth to an unconscious person.
- Inhalation** : Remove victim to fresh air.
- Skin contact** : Wash with water and soap as a precaution.
- Eye contact** : Flush eyes with water as a precaution.
- Ingestion** : If a person vomits when lying on their back, place them in the recovery position.
Never give anything by mouth to an unconscious person.
Drink water as a precaution.

4.2. Most important symptoms and effects, both acute and delayed**Symptoms and effects, both acute and delayed.** : No data available.**4.3. Indication of any immediate medical attention and special treatment needed****Medical attention and special treatment needed.** : No data available.**SECTION 5 Fire-fighting measures****5.1. Extinguishing media****Suitable extinguishing media** : Water spray, alcohol-resistant foam, dry chemical or Carbon Dioxide.**Extinguishing media which shall not be used for safety reasons** : High volume water jet**5.2. Special hazards arising from the substance or mixture****Specific hazards during fire-fighting** : Do not use a solid water stream as it may scatter and spread fire.**5.3. Advice for firefighters**

- Special protective equipment for fire-fighters** : In the event of fire, wear self-contained breathing apparatus.
- Further information** : In the event of fire and/or explosion do not breathe fumes.
Use water spray to cool unopened containers.

D-(+)-RAFFINOSE PENTAHYDRATE**RAF01 – RAF04****SECTION 6 Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****Personal precautions** : Ensure adequate ventilation.**6.2 . Environmental precautions****Environmental precautions** : No special environmental precautions required.**6.3. Methods and material for containment and cleaning up****Clean up methods** : Pick up and transfer to properly labelled containers.
Use mechanical handling equipment.**6.4. Reference to other sections**

For personal protection see section 8.

SECTION 7 Handling and storage**7.1. Precautions for safe handling****Advice on safe handling** : No special precautions required.**7.2. Conditions for safe storage, including any incompatibilities****Storage area and containers** : Store in a dry, cool area.
Store in original container.
To maintain product quality, do not store in heat or direct sunlight.**7.3. Specific end use(s)****Specific end use(s)** : For research purposes only**SECTION 8 Exposure controls/personal protection****8.1. Control parameters**

No additional information available.

8.2. Exposure controls

- **Eye protection** : Safety glasses.
- **Skin protection** : Wash skin after contact.
- **Hand protection** : Wear chemical-resistant gloves e.g. safety gloves of chloroprene Level 2 or butyl rubber Level 6.
- **Respiratory protection** : No personal protective equipment normally required.
- **Hygiene measures** : Wash hands before breaks and immediately after handling the product.
- **Protective measures** : Avoid contact with skin.
When using do not eat, drink or smoke.

SECTION 9 Physical and chemical properties**9.1. Information on basic physical and chemical properties****Appearance**

- Form** : Crystalline powder
- Colour** : White.
- Odour** : Characteristic
- Odour threshold** : No data available

D-(+)-RAFFINOSE PENTAHYDRATE**RAF01 – RAF04****SECTION 9 Physical and chemical properties (continued)****Safety data**

| | |
|---|---|
| Flash point (°C) | : Not applicable |
| Solubility in water | : Completely miscible |
| Relative Density | : No data available |
| Bulk Density | : < 1500 kg/m ³ |
| Relative vapour density (air = 1) | : Not applicable |
| Vapour pressure | : No data available |
| Melting point / Freezing point | : Melting point / range ca 78°C |
| Boiling point (°C) | : No data available. |
| Partition coefficient: n-octanol / water | : log Pow : not determined |
| pH | : 6.21 |
| Evaporation rate | : No data available |
| Flammability (solid, gas) | : Not classified as flammable |
| Auto ignition temperature (°C) | : Not classified as self heating |
| Decomposition temperature | : No data available |
| Oxidising properties | : Not classified as oxidizing |
| Explosive properties | : Not classified as explosive |
| Lower explosion limit | : Dust can form an explosive mixture in air |
| Upper explosion limit | : Dust can form an explosive mixture in air |

A final assessment of potential explosion hazards can only be made on a case-by-case basis when precise information is available on product handling, production setup and the circumstances surrounding the use of the product.

9.2. Other information

No additional information available

D-(+)-RAFFINOSE PENTAHYDRATE**RAF01 – RAF04****SECTION 10 Stability and reactivity****10.1. Reactivity**

No data available.

10.2. Chemical stability

No data available.

10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials to avoid

No data available.

10.6. Hazardous decomposition products

No data available.

SECTION 11 Toxicological information**11.1. Information on toxicological effects**

| | |
|---|---------------------|
| Acute oral toxicity | : No data available |
| Acute inhalation toxicity | : No data available |
| Acute dermal toxicity | : No data available |
| Repeated dose toxicity | : No data available |
| Acute toxicity (other routes of administration) | : No data available |
| Skin irritation | : No data available |
| Eye irritation | : No data available |
| Sensitisation | : No data available |
| Mutagenicity | : No data available |
| Carcinogenicity | : No data available |
| Reproductive toxicity | : No data available |
| Teratogenicity | : No data available |
| Specific target organ toxicity – single exposure | : No data available |
| Specific target organ toxicity – repeated exposure | : No data available |
| Aspiration toxicity | : No data available |

11.2. Additional Information**Endocrine disrupting properties :**

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

D-(+)-RAFFINOSE PENTAHYDRATE**RAF01 – RAF04****SECTION 12 Ecological information****12.1. Toxicity**

No data available.

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

No data available.

12.7. Endocrine disrupting properties

The Substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13 Disposal considerations**13.1. Waste treatment methods****General**

Avoid release to the environment.
Dispose in a safe manner in accordance with local / national regulations.

SECTION 14 Transport information**14.1. UN Number**

Not applicable

: Not classified as dangerous in the meaning of transport regulations.

General information**14.2. UN Proper shipping name**

Not applicable.

14.3. Transport Hazard Class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Not applicable.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

D-(+)-RAFFINOSE PENTAHYDRATE**RAF01 – RAF04****SECTION 15 Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

This safety datasheet complies with the requirements of Regulation (EU) No. 2015/830.

15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

SECTION 16 Other information**Further information**

: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Formedium Ltd. shall not be held liable for any damage resulting from handling or from contact with the above product.

Revision

: Complete SDS revision

End of document