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Oxford
Range of
Laboratory Chemicals

MATERIAL SAFETY DATA SHEET

D-RAFFINOSE Pentahydrate 99% AR

(Melitose)

MSDS CAS: - 17629-30-0

Section 1: Chemical Product and Company Identification

Section 1: Chemical Product

Product Name: D-RAFFINOSE Pentahydrate 99% AR
CAS#: - 17629-30-0
C.I. No.: Not available.
Synonym: O-α-D-Galactopyranosyl-(1→6)-α-D-glucopyranosyl β-D-fructofuranoside
Melitriose Melitose
Chemical Name: Not available.
Chemical Formula: $C_{18}H_{32}O_{16} \cdot 5H_2O$

Brand: OXFORD

Details Of The Supplier Of The Safety Data Sheet:

Company identification: OXFORD LAB FINE CHEM LLP
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,
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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
D-RAFFINOSE	17629-30-0	100

Section 3: Hazards Identification

Classification of the substance or mixture : Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

Label elements: Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008

Other hazards : none

Section 4: First Aid Measures

Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire and Explosion Data

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

Environmental precautions
Do not let product enter drains.

Methods and materials for containment and cleaning up
Sweep up and shovel. Keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

Section 7: Handling and Storage

Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed.Normal measures for preventive fire protection.
For precautions see section 2.2.

Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
hygroscopic
Storage class (TRGS 510): Combustible Solids

Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8: Exposure Controls/Personal Protection

Control parameters

Exposure controls

Appropriate engineering controls
General industrial hygiene practice.

Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Section 8: Exposure Controls/Personal Protection

Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Full contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)
Splash contact
Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)
data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374
If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance le (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and Chemical Properties

a) Appearance Form	**: crystalline**
Colour	**: white**
b) Odour	**: No data available**
c) Odour Threshold	**: No data available**
d) pH	**:No data available**
e) Melting point/freezing point	
Melting point/range	**: 78 - 80 °C**

Section 9: Physical and Chemical Properties

f) Initial boiling point and boiling range	**:No data available**
g) Flash point	**:No data available**
h) Evaporation rate	**:No data available**
i) Flammability (solid, gas)	**:No data available**
j) Upper/lower flammability or explosive limits	**:No data available**
k) Vapour pressure	**:No data available**
l) Vapour density	**:No data available**
m) Relative density	**:No data available**
n) Water solubility	**:No data available**
o) Partition coefficient: noctanol/ water	**:No data available**
p) Auto-ignition temperature	**:No data available**
q) Decomposition temperature	**:No data available**
r) Viscosity	**:No data available**
s) Explosive properties	**:No data available**
t) Oxidizing properties	**:No data available**
u) Molecular Weight	**: 594.51 g/mol**

9.2 Other safety information
No data available

Section 10: Stability and Reactivity Data

Reactivity
No data available

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No data available

Conditions to avoid
No data available

Incompatible materials
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides
Other decomposition products - No data available

Section 11: Toxicological Information

Information on toxicological effects

Acute toxicity

No data availableRaffinose pentahydrate

Skin corrosion/irritation

No data available(Raffinose pentahydrate)

Serious eye damage/eye irritation

No data available(Raffinose pentahydrate)

Respiratory or skin sensitisation

No data available(Raffinose pentahydrate)

Germ cell mutagenicity

No data available(Raffinose pentahydrate)

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available(Raffinose pentahydrate)

Specific target organ toxicity - single exposure

No data available(Raffinose pentahydrate)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available(Raffinose pentahydrate)

Additional Information

RTECS: Not available

Section 12: Ecological Information

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available(Raffinose pentahydrate)

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Section 12: Ecological Information

Other adverse effects

No data available

Section 13: Disposal Considerations

Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14: Transport Information

Land transport (ADR-RID)

General information : **Not regulated.**

Sea transport (IMDG) [English only]

General information : **Not regulated.**

Air transport (ICAO-IATA) [English only]

General information : **Not regulated.**

Section 15: Other Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

For this product a chemical safety assessment was not carried out

Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

Disclaimer:

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