

Material Safety Data Sheet

According to 91/155/EEC

1. Identification of the substance / preparation and of the company

Identification of the substance or preparation

CELLACTOSE 80

Use of the substance/preparation
Used as excipient

Company/undertaking identification
Molkerei MEGGLE Wasserburg
GmbH & Co. KG
Meggelstr. 6-12
D-83512 Wasserburg
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2. Composition/information on ingredients

75 Parts Lactose (Ph.Eur./JP/USP-NF)
25 Parts Cellulose powder (Ph.Eur., USP/NF, JP)

Lactose: CAS-No.: 64044-51-5 ELINCS-Index-No.: not listed
MW: 360.32 g/mol EINECS-No.: 200-559-2
R-Phrases: no hazardous in sense of the guideline
Content: 75 %
Molecular formula: $C_{12}H_{22}O_{11} \cdot H_2O$

Cellulose powder: CAS-No.: 9004-34-6 ELINCS-Index-No.: not listed
MW: approx. 3600 g/mol EINECS-No.: 2326 749
R-Phrases: no hazardous in sense of the guideline
Content: 25 %
Molecular formula: $(C_6H_{10}O_5)_n$

Full text of R-Phrases: refer to section 15.

3. Hazards identification

3.1 Adverse human health effect(s) and symptom(s)

May cause eye irritation.
May cause skin irritation.
May cause irritation of the digestive tract. Ingestion of large amounts may cause gastrointestinal irritation.
May cause respiratory tract irritation.
Avoid formation of dust. The use of this product is described at section 6 and 7.
Substance, combustible. Dust explosive, dust explosion class: ST 1.

3.2 Adverse environmental effect(s):

Refer to section 12.

4. First-aid measures

4.1 On inhalation:

Move affected person into fresh air, keep warm and allow to rest. In case of accident or if the person feels unwell, seek medical advice immediately (show safety data sheet where possible).

4.2 On contact with the eyes:

On contact with the eyes, rinse immediately with plenty of water for at least 15 minutes, seek medical advice (show safety data sheet where possible).

4.3 On contact with skin:

On contact with the skin, wash off immediately with water. In case of skin reactions, seek medical advice (show safety data sheet where possible).

4. First-aid measures

4.4 If swallowed:

Never give anything by mouth to an unconscious person. Do not induce vomiting. If conscious rinse mouth and drink 2-4 cupful of water. After intake above 500 g seek medical advice immediately.

In case of accident or if you feel unwell, seek medical advice immediately (show safety data sheet where possible).

5. Fire-fighting measures

5.1 Suitable extinguishing media:

Water spray jet, Foam, ABC-powder. Co-ordinate fire-fighting measures to the fire surroundings.

5.2 Extinguishing media which must not be used for safety reasons:

unknown

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:

Substances potentially set free in case of fire: Carbon monoxide (CO), Carbon dioxide (CO₂).

5.4 Special protective equipment for firefighting:

Use breathing apparatus with independent air supply (isolated)

5.5 Additional information:

Co-ordinate fire-fighting measures to the fire surroundings. Collect contaminated firefighting water separately.

6. Accidental release measures

Refer to section 13. Use personal protective clothing like mentioned at section 8.

6.1 Personal precautions:

Avoid dust formation. Use personal protective clothing. Avoid eye and skin contact. Keep away sources of ignition. Don't smoke. Ensure adequate ventilation. Take precautionary measures against electrostatic loading.

6.2 Environmental precautions:

Contain spillage

6.3 Methods for cleaning up / taking up:

Clean contaminated floors and objects thoroughly observing environmental regulations. Treat recovered material as prescribed in Disposal considerations at section 13. avoid dust formation. Take precautionary measures against electrostatic loading

7. Handling and storage

7.1 Handling

Hints for safe handling:

Refer to section 6.1

If handled uncovered, arrangements with local exhaust ventilation have to be used. Avoid contact with eyes and skin, Avoid formation of dust. If local exhaust ventilation is impossible or insufficient, provide sufficient ventilation of the workplace. Take precautionary measures against electrostatic loading. Dust explosive, dust explosion class: ST 1. Keep away from sources of ignition - refrain from smoking.

7.2 Storage

Technical measures and storage conditions:

Keep packaging tightly closed and store in a cool, dry place.

Suitable materials for container/equipment: common packaging for food.

Unsuitable materials for container/equipment: no data available.

Further information on storage conditions:

Refer to section 10.2

Keep packaging tightly closed and store in a cool, dry place.

8. Exposure limitation and personal protective equipment

Substance	%	Occupational exposure limits:
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Name

Dust limit

3 mg/m³ alveolar fraction

10 mg/m³ respiratory fraction

Personal protection equipment

8.1. Respiratory protection:

Respiratory protection necessary at: exposure limit excess.

Suitable respiratory protection apparatus: Particle filter (DIN EN 143).

8.2 Hand protection:

Recommended: Disposable gloves (EN 374)

8.3 Eye protection:

Eye glasses with side protection.

8.4 Protective clothing:

Protective clothing (e.g. Safety shoes EN 344, long sleeved working clothes)

Additional information to hand protection: No tests were executed. The information is based on the statement of the manufacturer.

9. Physical and chemical properties

Physical state:	Solid Powder.
Colour:	white to nearly white
Odour:	odourless
pH-value 10%:	4.0-7.0 (at 100 g/l water, 20 °C)
Physical state change (in °C):	Not determinable
Melting-point / Melting range:	202 °C (for lactose)
Flash point (in °C):	n. d. a
Flammability:	class 3
Explosive properties:	Dust explosive
Lower explosion limit:	about 60 – 125 g/m ³ , depending on particle size (*)
Ignition temperature:	370 °C, depending on particle size
Dust explosive class:	ST 1 (*)
Vapour pressure:	n. a.
Bulk density:	330-390 g/l
Water solubility:	approx. 75 % (20 °C), freely soluble in water 50 °C
Partition coefficient n-octanol / water (log p OW):	n. a.

10. Stability and reactivity

10.1 Conditions to avoid:

Refer to section 7.

No hazardous decomposition products if stored and handled as prescribed.

Danger of dust explosion.

Take precautionary measures against electrostatic loading.

10.2 Materials to avoid:

Strong smelling material

10.3 Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed.

11. Toxicological information

11.1 Acute toxicity:

11.1.1 LD50 Rat oral (mg / kg):	>10g/kg (food)
11.1.2 LD50 Rat inhalative (mg/kg/4h):	n.d.a. (food)
11.1.3 LD50 Rat dermal (mg/kg):	n.d.a. (food)
11.1.4 to eye:	n.d.a. (food)

11.2 Subacute to chronic toxicity:

11.2.1 Sensitisation:	contains traces of milk protein: inhalation of dust may lead to sensitisation in some allergic individuals (refer Section 7)
11.2.2 Carcinogenic toxic effects:	n.d.a. (food)
11.2.3 Mutagenic toxic effects:	n.d.a. (food)
11.2.4 Reproductive toxic effects:	n.d.a. (food)
11.2.5 Narcotic effects:	n.d.a. (food)

11.3 Other information:

This product is a food preparation.

This product contains milk protein, sensitisation in some allergic individuals may be occurred.

12. Ecological information

Water hazard class:	nwg = not water hazardous according to German VwVwS 1999 1 .2d
Self-assessment:	No, KBwS
Information about elimination (persistence and degradation)	n. d. a. (food)
Behaviour in waste water treatment plants:	n. d. a. (food)
Aquatic toxicity:	n. d. a. (food)
Ecotoxicology:	n. d. a. (food)
Mobility:	n. d. a. (food)
Taking up and accumulation in organismn:	n. d. a. (food)
(bioaccumulation potential)	n. d. a. (food)
Further ecological information:	n. d. a. (food)
Overall evaluation:	This product is used as food in the food industry.

13. Disposal considerations

13.1 Disposal / Waste (product):

Dispose of in compliance with official regulations.

List of proposed waste codes/waste designations in accordance with EWC:

02 05 WASTES FROM THE DAIRY PRODUCTS INDUSTRY

02 05 99 wastes not otherwise specified

Landfill together with household waste, after coordination with waste management company.

13.2 Packages:

Dispose of in compliance with official regulations.

Completely emptied packages may be recycled.

14. Transport information

Land transport (ADR/GGVS, RID/GGVE)

UN-No.

Class/Packing group:

Classification code:

Label:

No hazardous material as defined by the transport regulations.

No hazardous material as defined by the transport regulations.

No hazardous material as defined by the transport regulations.

Inland waterway craft/ Marine transport (IMDG)

GGVSee/IMDG-Code:

FmS-No.:

Marine Pollutant

No hazardous material as defined by the transport regulations.

No hazardous material as defined by the transport regulation.

No hazardous material as defined by the transport regulations.

Air transport ICAO/IATA

IATA

No hazardous material as defined by the transport regulations.

Transport / Further information

No hazardous material as defined by the transport regulations (ADR/RID, IMDG-Code, ICAO-TI / IATA-DGR).

15. Regulatory information

Hazard(ous) symbol(s) and indication(s) of danger for dangerous substances and preparations (67/548/EEC and 1999/45/EC):

Hazard(ous) symbol(s) and indication(s) of danger

For dangerous substances and preparations:

none

R-phrases:

none

S-phrases:

none

Classification according to VbF:

n.a.

Other regulations, restrictions and prohibition

regulations:

n.a.

General advices:

No hazardous material

Storage class according to VCI: 11

16. Other information

This information is based on our present knowledge.

Revised sections:

new

Further information:

Data references: BIA-Report (*)

Legend:

n.a. = not applicable / n. d. a. = no data available

VbF = Verordnung über brennbare Flüssigkeiten

Water hazard class (WGK):

Nwg = not water hazardous, WGK1 = slightly water hazardous, WGK2 = water hazardous, WGK3 = extremely water hazardous

KBwS = Kommission Bewertung wassergefährlicher Stoffe, VwVwS = Verwaltungsvorschrift wassergefährdende Stoffe, EWC = European Waste Catalogue

This information is based on our present knowledge. It characterizes the product for appropriate safety precautions. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Existing legal obligations have to be fulfilled, according to the user's own responsibility.

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