

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier:
Cellelets® all types

Chemical name: Microcrystalline cellulose

CAS number: 9004-34-6

EC number: 232-674-9

Registration number:

Registration number is not available for this substance since this substance or its use is exempted from registration based on Article 2 of REACH regulation, or registration is not necessary due to the annual tonnage band.

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

Microcrystalline cellulose for professional and industrial use.

Chemical Products Categories (PC):

PC29 – Pharmaceuticals

PCo – Other

1.3. Details of the supplier of the safety data sheet:

Information about the manufacturer:

IPC Process-Center GmbH & Co. KG

Grunaer Weg 26; 01277 Dresden; Germany

Tel: +49(0)351 2584-0

1.3.1. Responsible person: -
E-mail: info@ipc-dresden.de

1.4. Emergency telephone number: **Toxikologischer Auskunftsdienst Erfurt**
Tel.: +49(0)361/ 7307 30
Fax: + 49(0)361/ 7307 317

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008 (CLP):

Not considered as hazardous substance.

Hazard statements: No hazard statements.

2.2. Label elements:

Chemical name: Microcrystalline cellulose

CAS number: 9004-34-6

EC number: 232-674-9

Hazard statements: No hazard statements.

Precautionary statements:

P210 – Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 – Ground and bond container and receiving equipment.

P241 – Use explosion-proof electrical equipment.

P280 – Wear eye protection.



2.3. **Other hazards:**

Mechanical irritation of the upper respiratory mucous membranes and the mucous membranes of the eyes may occur through contact with product dust.

Whirled-up dust can lead to a dust explosion.

Results of PBT and vPvB assessment: This substance is not considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of Regulation 1907/2006/EC.

Endocrine disrupting property: This substance is not considered to have endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. **Substance:**

Chemical name: Microcrystalline cellulose

CAS number: 9004-34-6

EC number: 232-674-9

Purity: 100 %

SECTION 4: FIRST AID MEASURES

4.1. **Description of first aid measures:**

General information: The product is classified as non-hazardous. Mechanical irritation of the upper respiratory mucous membranes and the mucous membranes of the eyes may occur through contact with product dust. Change clothes contaminated with the product.

INGESTION:

Measures:

- Rinse mouth with water.
- Consult a doctor if symptoms occur.

INHALATION:

Measures:

- Provide plenty of fresh air.
- Consult a doctor if symptoms occur.

SKIN CONTACT:

Measures:

- Rinse the skin with warm water.

EYE CONTACT:

Measures:

- Rinse gently with water for several minutes.
- Remove contact lenses if possible. Continue rinsing.

4.2. **Most important symptoms and effects, both acute and delayed:**

No acute and delayed symptoms and effects known.

4.3. **Indication of any immediate medical attention and special treatment needed:**

No special treatment needed; treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. **Extinguishing media:**

5.1.1. **Suitable extinguishing media:**

Water, foam, extinguishing powder, carbon dioxide.

Choose extinguishing media depending on surrounding fire.

5.1.2. **Unsuitable extinguishing media:**

No unsuitable extinguishing media known.

5.2. **Special hazards arising from the substance or mixture:**

Whirled-up dust can lead to a dust explosion.

Gases produced during combustion: carbon monoxide (CO), carbon dioxide (CO₂).

5.3. **Advice for firefighters:**

Wear full protective clothing and self-contained breathing apparatus.



SECTION 6: ACCIDENTAL RELEASE MEASURES

- 6.1. **Personal precautions, protective equipment and emergency procedures:**
- 6.1.1. **For non-emergency personnel:**
Allow only well-trained experts wearing suitable protective clothing to abide in the field of the accident.
- 6.1.2. **For emergency responders:**
Avoid formation of dust.
Use respiratory protection when exposed to vapours, dusts, aerosols.
- 6.2. **Environmental precautions:**
Dispose of the spillage and the resulting waste according to the applicable environmental regulations. Do not allow the product and the resulting waste to enter sewers/soil/surface or ground water. Notify the respective authorities in accordance with local law in the case of environmental pollution immediately.
Do not allow to enter the environment in large quantities.
- 6.3. **Methods and material for containment and cleaning up:**
Collect the spilled product mechanically.
Avoid dust formation.
- 6.4. **Reference to other sections:**
For further and detailed information see Sections 7, 8 and 13.

SECTION 7: HANDLING AND STORAGE

- 7.1. **Precautions for safe handling:**
Observe conventional hygiene precautions.
Do not allow to enter the environment.
Do not eat, drink or smoke in work areas.
Wash hands before breaks and after work.
Avoid contact with skin, eyes and inhalation of dust.
Wear protective goggles.
Technical measures:
Avoid dust formation during open handling.
If possible, use equipment with local exhaust ventilation.
It is recommended to design all working procedures in such a way that the inhalation of dusts/particles is excluded.
For filling, decanting and dosing work, as well as for sampling, use devices with local extraction, wherever possible.
Dust should be extracted directly at the point of origin.
Dust deposits that cannot be avoided should be removed regularly.
Use approved industrial hoovers or vacuum systems for potentially explosive atmospheres.
Blowing off for cleaning purposes is not permitted.
If there is a possibility of a dust explosion due to the dust-like distribution and the quantities used, measures according to the "Explosion Protection Directive" may be necessary.
Precautions against fire and explosion:
The product is flammable.
Fire extinguishing equipment must be provided.
Keep away from heat sources (e.g. hot surfaces, sparks, open flames).
The product is capable of dust explosion; dust explosion class: ST1.
- 7.2. **Conditions for safe storage, including any incompatibilities:**
Technical measures and storage condition:
Keep container tightly closed.
Store in a dry place.
Keep product away from heat sources.
Storage stability: at least 4 years.
Storage class: 11 (data given by the manufacturer).
Incompatible materials: See Section 10.5.
Packaging material: No special prescriptions.
- 7.3. **Specific end use(s):**
No specific instructions available.



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Occupational exposure limit values (Commission Directive (EC) No 2000/39 of 8 June 2000):
 The substance is not regulated with exposure limit value.

DNEL values		Oral exposure		Dermal exposure		Inhalative exposure	
		Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)	Short term (acute)	Long term (chronic)
Consumer	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data
Worker	Local	no data	no data	no data	no data	no data	no data
	Systemic	no data	no data	no data	no data	no data	no data

PNEC values		
Compartment	Value	Note(s)
Freshwater	no data	no notes
Marine water	no data	no notes
Freshwater sediment	no data	no notes
Marine water sediment	no data	no notes
Sewage Treatment Plant (STP)	no data	no notes
Intermittent release	no data	no notes
Secondary poisoning	no data	no notes
Soil	no data	no notes

8.2. Exposure controls:

In case of a hazardous material with no controlled concentration limit it is the employer's duty to keep concentration levels down to a minimum achievable by existing scientific and technological means, where the hazardous substance poses no harm to workers.

8.2.1. Appropriate engineering controls:

In pursuance of work is proper foresight needed to avoid leaking onto clothes and floors and to avoid contact with eyes and skin. If possible, use closed systems.
 Use suitable extractors (section 7).

8.2.2. Individual protection measures, such as personal protective equipment:

1. **Eye/face protection:** Use appropriate protective glasses (dust goggles) (EN ISO 16321-1:2022; EN 166).
2. **Skin protection:**
 - a. **Hand protection:** Use appropriate protective gloves (EN 374).
 - b. **Other:** Use appropriate chemical protective clothing.
3. **Respiratory protection:** In case of dust formation, use appropriate respiratory equipment.
 Suitable respiratory protective equipment:
 Full/half/quarter face masks (DIN EN 136/140) P1 or P2.
 Filtering half mask (DIN EN 149) FFP1 or FFP2
 Half mask or quarter mask: Maximum application concentration for substances with limit values: P1 filter up to max. 4 times the limit value; P2 filter up to max. 10 times the limit value; P3 filter up to max. 30 times the limit value. The regulations concerning wearing time limits must be observed.
 Self-contained breathing apparatus: Use at concentrations above the application limit of filtering devices, at oxygen contents below 17 vol.% or in unclear conditions.
4. **Thermal hazards:** No thermal hazards known.

8.2.3. Environmental exposure controls:

Do not allow to enter the environment.

The requirements detailed in Section 8 assume skilled work under normal conditions and usage of the product for appropriate aims. If conditions differ from normal or work is carried out under extreme conditions, an expert's advice is necessary before deciding upon further protective measures.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

Parameter	Value / Test method / Remarks
1. Physical state	solid
2. Colour	white
3. Odour, odour threshold	odourless
4. Melting point/freezing point	no data*
5. Boiling point or initial boiling point and boiling range	no data*
6. Flammability	no data*
7. Lower and upper explosion limit	no data*
8. Flash point	not applicable
9. Auto-ignition temperature	no data*
10. Decomposition temperature	no data*
11. pH	5-7 (at 20 °C)
12. Kinematic viscosity	not applicable
13. Solubility in water in other solvents	insoluble no data*
14. Partition coefficient n-octanol/water (log value)	no data*
15. Vapour pressure	no data*
16. Density and/or relative density	approx. 1.5 g/cm ³ Bulk density: 0.8 ± 5% g/cm ³
17. Relative vapour density	no data*
18. Particle characteristics	no data*

9.2. Other information:

9.2.1. Information with regard to physical hazard classes:

Explosive properties: the product is capable of dust explosion.
Ignition temperature: approx. 500 °C (Godbert-Greenwald)

9.2.2. Other safety characteristics:

No other characteristics available.

*: The manufacturer did not carry out any tests on this parameter for the product or the results of the tests are not available at the time of publication of the data sheet, or the property is not applicable for the product.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Cellulose is insoluble in water and in most organic solvents.
It can be broken down by strong acids.
With concentrated acids at elevated temperature, cellulose can be broken down to glucose.

10.2. Chemical stability:

Stable under normal conditions.

10.3. Possibility of hazardous reactions:

No hazardous reactions known.

10.4. Conditions to avoid:

Thermal stress, temperatures above 200 °C, open sources of ignition.

10.5. Incompatible materials:

Strong oxidising agents, strong acids.

10.6. Hazardous decomposition products:

None, except combustion products: see Section 5.



SECTION 11: TOXICOLOGICAL INFORMATION

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008:**
Acute toxicity: Based on available data, the classification criteria are not met.
Skin corrosion/irritation: Based on available data, the classification criteria are not met.
Serious eye damage/irritation: Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: Based on available data, the classification criteria are not met.
STOT-single exposure: Based on available data, the classification criteria are not met.
STOT-repeated exposure: Based on available data, the classification criteria are not met.
Aspiration hazard: Based on available data, the classification criteria are not met.
- 11.1.1. Summaries of the information derived from the test conducted:**
No data available.
- 11.1.2. Relevant toxicological properties:**
Acute toxicity:
LD₅₀ (oral, rat): >5000 mg/kg
LD₅₀ (dermal, rabbit): >2000 mg/kg
LC₅₀ (inhalation, rat): >5.8 mg/l/4h
Other observations:
Mechanical irritation of the mucous membranes of the eyes and upper throat possible.
- 11.1.3. Information on likely routes of exposure:**
Ingestion, inhalation, skin contact, eye contact.
- 11.1.4. Symptoms related to the physical, chemical and toxicological characteristics:**
No data available.
- 11.1.5. Delayed and immediate effects as well as chronic effects from short and long-term exposure:**
No data available.
- 11.1.6. Interactive effects:**
No data available.
- 11.1.7. Absence of specific data:**
No information.
- 11.2. Information on other hazards:**
Endocrine disrupting properties:
Endocrine disrupting property: This substance is not considered to have endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
Other information:
No data available.

SECTION 12: ECOLOGICAL INFORMATION

- 12.1. Toxicity:**
The substance is not classified as hazardous for the environment.
- 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 assessment:**
This substance is not considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) in accordance with Annex XIII of Regulation 1907/2006/EC.
- 12.6. Endocrine disrupting properties:**
Endocrine disrupting property: This substance is not considered to have endocrine disrupting properties in accordance with Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.
- 12.7. Other adverse effects:**
None known.
Water hazard class (WGK, German regulation, self-classification): 0 - non-hazardous for water.



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SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. **Waste treatment methods:**
Disposal according to the local regulations.
- 13.1.1. **Information regarding the disposal of the product:**
Dispose of in accordance with applicable official regulations.
List of Waste Code:
03 03 99 wastes not otherwise specified
- 13.1.2. **Information regarding the disposal of the packaging:**
Dispose of in accordance with applicable regulations.
Non-contaminated and empty packaging may be recycled.
- 13.1.3. **Physical/chemical properties that may affect waste treatment options shall be specified:**
No data available.
- 13.1.4. **Sewage disposal:**
No data available.
- 13.1.5. **Special precautions for any recommended waste treatment:**
No data available.

SECTION 14: TRANSPORT INFORMATION

ADR/RID; IMDG; IATA:
Not subject to the conventions of carriage of dangerous goods.

- 14.1. **UN number or ID number:**
No UN Number.
- 14.2. **UN proper shipping name:**
No proper shipping name.
- 14.3. **Transport hazard class(es):**
No transport hazard classes.
- 14.4. **Packing group:**
No packing group.
- 14.5. **Environmental hazards:**
Environmentally hazardous: No.
Marine pollutant: No.
- 14.6. **Special precautions for user:**
To be avoided: Dust formation, heat, ignition sources.
- 14.7. **Maritime transport in bulk according to IMO instruments:**
Not applicable.

SECTION 15: REGULATORY INFORMATION

- 15.1. **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive (EC) No 1999/45 and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive (EEC) No 76/769 and Commission Directives (EEC) No 91/155, (EEC) No 93/67, (EC) No 93/105 and (EC) No 2000/21

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives (EEC) No 67/548 and (EC) No 1999/45, and amending Regulation (EC) No 1907/2006

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The substance is not contained on the candidate list for authorisation of substances of very high concern (SVHC) under Regulation (EC) No 1907/2006 (REACH).

- 15.2. **Chemical safety assessment:** Has not been carried out.



SECTION 16: OTHER INFORMATION

Information regarding the revision of the safety data sheet:

The safety data sheet has been revised according to Regulation (EU) 2020/878 (Section 1-16).
The hazard classification of the substance did not change compared to the previous version.

This safety data sheet supersedes all previous versions according to Annex II of Regulation (EC) No 1907/2006.

Literature references / data sources:

Previous version of the safety data sheet (08. 12. 2021, version 5)

Relevant hazard statements (code and full text) of Sections 2 and 3: No relevant statements.

Training advice: No data available.

Full text of the abbreviations in the safety data sheet:

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate.
AOX: Adsorbable organic halides.
BCF: Bioconcentration factor.
BOD: Biological Oxygen Demand.
CAS number: Chemical Abstract Service number.
CLP: Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.
CMR effects: Carcinogenic, mutagenic, reprotoxic effects.
COD: Chemical Oxygen Demand.
CSA: Chemical Safety Assessment.
CSR: Chemical Safety Report.
DNEL: Derived-No-Effect-Level.
ECHA: European Chemical Agency.
EC: European Community.
EC number: EINECS and ELINCS numbers (see also EINECS and ELINCS).
EEC: European Economic Community.
EEA: European Economic Area (EU + Iceland, Liechtenstein and Norway).
EINECS: European Inventory of Existing Commercial Chemical Substances.
ELINCS: European List of Notified Chemical Substances.
EN: European Norm.
EU: European Union.
EWC: European Waste Catalogue (replaced by LoW – see below).
GHS: Globally Harmonized System of Classification and Labelling of Chemicals.
IATA: International Air Transport Association.
ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air.
IMDG: International Maritime Dangerous Goods.
IMO: International Maritime Organization.
IMSBC: International Maritime Solid Bulk Cargoes.
IUCLID: International Uniform Chemical Information Database.
IUPAC: International Union of Pure and Applied Chemistry.
Kow: n-Octanol - Water Partition Coefficient.
LC50: Lethal concentration resulting in 50 % mortality.
LD50: Lethal dose resulting in 50 % mortality (median lethal dose).
LoW: List of Waste.
LOEC: Lowest Observed Effect Concentration.
LOEL: Lowest Observed Effect Level.
NOEC: No Observed Effect Concentration.
NOEL: No Observed Effect Level.
NOAEC: No Observed Adverse Effect Concentration.
NOAEL: No Observed Adverse Effect Level.
OECD: Organization for Economic Cooperation and Development.

OSHA: Occupational Safety and Health Administration.
PBT: Persistent, Bioaccumulative and Toxic.
PNEC: Predicted No Effect Concentration.

QSAR: Quantitative Structure Activity Relationship.
REACH: Regulation 1907/2006/EC concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.
RID: Regulations Concerning the International Transport of Dangerous Goods by Rail.
SCBA: Self Contained Breathing Apparatus.
SDS: Safety Data Sheet.
STOT: Specific Target Organ Toxicity.
SVHC: Substances of Very High Concern.
UN: United Nations.
UVCB: Chemical Substances of Unknown or Variable Composition, Complex Reaction Products and Biological Materials.
VOC: Volatile Organic Compound.
vPvB: very Persistent and very Bioaccumulative.

This safety data sheet had been prepared on the basis of information provided by the manufacturer/supplier and conform to the relevant regulations.

The information, data and recommendations contained herein are provided in good faith, obtained from reliable sources and believed to be true and accurate as of the date issued; however, no representation is made as to the comprehensiveness of the information.

The SDS shall be used only as a guide for handling the product; in the course of handling and using the product other considerations may arise or be required.

Users are cautioned to determine the appropriateness and applicability of the above information to their particular circumstances and purposes and assume all risk associated with the use of this product.

It is the responsibility of the user to fully comply with local, national and international regulations concerning the use of this product.

Safety data sheet was prepared by:
MSDS-Europe
International branch of ToxInfo Kft.

Professional help regarding the explanation of
the safety data sheet:
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