

1 Identification

- **Product identifier**
- **Trade name:** Fat Free Test Diet
- **Article number:** 901683
- **Application of the substance / the mixture** For Research Use Only
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
United States
www.mpbio.com
- **Information department:** Quality Control Department
- **Emergency telephone number:** CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified, according to the Globally Harmonized System (GHS).

- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:**
Mixture of substances listed below with nonhazardous additions.
Mixture: consisting of the following components.

· **Dangerous components:**

CAS: 57-50-1 EINECS: 200-334-9 RTECS: WN6500000	Sucrose	50-90%
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CAS: 9004-34-6
EINECS: 232-674-9
RTECS: FJ5691460

Alphacel

10-50%

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Flush eyes with running water as a precaution.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Pick up mechanically.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

7758-11-4	Potassium Phosphate Dibasic Anhydrous	13 mg/m ³
471-34-1	Calcium Carbonate	45 mg/m ³
10034-99-8	Magnesium Sulfate Heptahydrate	33 mg/m ³
598-62-9	Manganese Carbonate	6.3 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
150-13-0	p-Aminobenzoic Acid	15 mg/m ³
7681-49-4	Sodium Fluoride	17 mg/m ³
10034-96-5	Manganese Sulfate Monohydrate	9.2 mg/m ³
7784-24-9	Aluminum Potassium Sulfate Dodecahydrate	110 mg/m ³

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7758-99-8	Cupric Sulfate Pentahydrate	12 mg/m ³
7681-11-0	Potassium Iodide	1.3 mg/m ³

· PAC-2:

7758-11-4	Potassium Phosphate Dibasic Anhydrous	140 mg/m ³
471-34-1	Calcium Carbonate	210 mg/m ³
10034-99-8	Magnesium Sulfate Heptahydrate	370 mg/m ³
598-62-9	Manganese Carbonate	10 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
150-13-0	p-Aminobenzoic Acid	69 mg/m ³
7681-49-4	Sodium Fluoride	90 mg/m ³
10034-96-5	Manganese Sulfate Monohydrate	15 mg/m ³
7784-24-9	Aluminum Potassium Sulfate Dodecahydrate	1,200 mg/m ³
7758-99-8	Cupric Sulfate Pentahydrate	32 mg/m ³
7681-11-0	Potassium Iodide	15 mg/m ³

· PAC-3:

7758-11-4	Potassium Phosphate Dibasic Anhydrous	830 mg/m ³
471-34-1	Calcium Carbonate	1,300 mg/m ³
10034-99-8	Magnesium Sulfate Heptahydrate	2,300 mg/m ³
598-62-9	Manganese Carbonate	60 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m ³
150-13-0	p-Aminobenzoic Acid	410 mg/m ³
7681-49-4	Sodium Fluoride	1,100 mg/m ³
10034-96-5	Manganese Sulfate Monohydrate	90 mg/m ³
7784-24-9	Aluminum Potassium Sulfate Dodecahydrate	6,900 mg/m ³
7758-99-8	Cupric Sulfate Pentahydrate	190 mg/m ³
7681-11-0	Potassium Iodide	87 mg/m ³

7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special requirements.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:** 15-30°C
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Further information about storage conditions:**
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see Section 7.

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- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

57-50-1 Sucrose

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV Long-term value: 10 mg/m³

9004-34-6 Alphacel

PEL Long-term value: 15* 5** mg/m³
*total dust **respirable fraction

REL Long-term value: 10* 5** mg/m³
*total dust **respirable fraction

TLV Long-term value: 10 mg/m³

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

- **Breathing equipment:** Not required.

- **Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

Form: Pellet

Color: Light yellow

- **Odor:** Indeterminate

- **Odor threshold:** Not determined.

- **pH-value:** Not applicable.

- **Change in condition**

Boiling point/Boiling range: Undetermined.

- **Flash point:** Not applicable.

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· Flammability (solid, gaseous):	<i>Not determined.</i>
· Decomposition temperature:	<i>Not determined.</i>
· Auto igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>See section 10</i>
· Explosion limits:	
Lower:	<i>Not Applicable</i>
Upper:	<i>Not Applicable</i>
· Vapor pressure:	<i>Not applicable.</i>
· Density:	<i>Not Applicable</i>
· Relative density	<i>Not determined.</i>
· Vapor density	<i>Not applicable.</i>
· Evaporation rate	<i>Not applicable.</i>
· Solubility in / Miscibility with	<i>Not Determined</i>
· Water:	<i>Not determined.</i> <i>Insoluble.</i>
· Partition coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity:	
Dynamic:	<i>Not applicable.</i>
Kinematic:	<i>Not applicable.</i>
· Solvent content:	
VOC content:	<i>0.00 %</i>
Solids content:	<i>100.0 %</i>
· Other information	<i>No further relevant information available.</i>

10 Stability and reactivity

- **Reactivity** *No further relevant information available.*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid**
No further relevant information available.
Avoid contact with acids. Contact liberates a toxic gas.
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:** *Based on available data, the classification criteria are not met.*
- **Primary irritant effect:**
- **on the skin:** *No irritant effect.*
- **on the eye:** *Irritant and potentially harmful*
- **Sensitization:** *No sensitizing effects known.*

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- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

7631-86-9	silicon dioxide, chemically prepared	3
150-13-0	p-Aminobenzoic Acid	3
7681-49-4	Sodium Fluoride	3

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Can not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **Uncleaned packagings:**

- **Recommendation:** Discard must be made according to official regulations.

14 Transport information

- **UN-Number**

- **DOT, ADR, ADN, IMDG, IATA** Not regulated

- **UN proper shipping name**

- **DOT, ADR, ADN, IMDG, IATA** Not regulated

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|--|-----------------|
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Not regulated |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Not regulated |
| · Environmental hazards: | Not applicable. |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | Not regulated |

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

50-14-6	ergocalciferol
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· Section 313 (Specific toxic chemical listings):

598-62-9	Manganese Carbonate
10034-96-5	Manganese Sulfate Monohydrate

· TSCA (Toxic Substances Control Act):

57-50-1	Sucrose	ACTIVE
9000-71-9	Casein	ACTIVE
9004-34-6	Alphacel	ACTIVE
7693-13-2	Calcium Citrate	ACTIVE
7758-11-4	Potassium Phosphate Dibasic Anhydrous	ACTIVE
7447-40-7	Potassium Chloride	ACTIVE
7758-23-8	Calcium Phosphate Monobasic	ACTIVE
67-48-1	choline chloride	ACTIVE
7647-14-5	Sodium Chloride	ACTIVE
471-34-1	Calcium Carbonate	ACTIVE
50-81-7	L-Ascorbic Acid	ACTIVE
598-62-9	Manganese Carbonate	ACTIVE
9005-25-8	Corn Starch	ACTIVE
2338-05-8	Ferric Citrate Purified Powder	ACTIVE
7695-91-2	DL-alpha-Tocopherol Acetate	ACTIVE
7631-86-9	silicon dioxide, chemically prepared	ACTIVE
87-89-8	D-myo-Inositol	ACTIVE
150-13-0	p-Aminobenzoic Acid	ACTIVE
59-67-6	nicotinic acid	ACTIVE
137-08-6	D-Pantothenic Acid Calcium Salt	ACTIVE

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58-27-5	Menadione	ACTIVE
127-47-9	Vitamin A Acetate	ACTIVE
68-19-9	Vitamin B12	ACTIVE
83-88-5	riboflavin	ACTIVE
58-56-0	Pyridoxine Hydrochloride	ACTIVE
67-03-8	Thiamine Hydrochloride	ACTIVE
7681-49-4	Sodium Fluoride	ACTIVE
59-30-3	Folic Acid	ACTIVE
9000-01-5	Gum Arabic	ACTIVE
50-14-6	ergocalciferol	ACTIVE

· **Hazardous Air Pollutants**

598-62-9	Manganese Carbonate
10034-96-5	Manganese Sulfate Monohydrate

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

598-62-9	Manganese Carbonate	D
10034-96-5	Manganese Sulfate Monohydrate	D

· **TLV (Threshold Limit Value established by ACGIH)**

57-50-1	Sucrose	A4
9005-25-8	Corn Starch	A4
7681-49-4	Sodium Fluoride	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** Void

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Quality Control Dept.

· **Date of preparation / last revision** 04/17/2019 / -

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· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

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