

1 Identification

- **Product identifier**
- **Trade name:** Biotin Free Test Diet Rat Rubin
- **Article number:** 960410
- **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

- **Description:** Mixture: consisting of the following components.

Dangerous components:

CAS: 9005-25-8 EINECS: 232-679-6 RTECS: GM5090000	Corn Starch	10-50%
CAS: 471-34-1 EINECS: 207-439-9 RTECS: EV 9580000	Calcium Carbonate, ACS	1-2.5%

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· Non-Hazardous Ingredients

	Egg White Spray Dried	10-50%
CAS: 8001-29-4 EINECS: 232-280-7 RTECS: GN2815000	Cottonseed Oil	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, ACS Grade	13 mg/m ³
471-34-1	Calcium Carbonate, ACS	45 mg/m ³
7487-88-9	magnesium sulphate	20 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	18 mg/m ³
150-13-0	p-Aminobenzoic Acid	15 mg/m ³
10034-96-5	Manganese Sulfate Monohydrate	9.2 mg/m ³
7681-11-0	Potassium Iodide	1.3 mg/m ³

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7758-99-8	Cupric Sulfate Pentahydrate	12 mg/m ³
7646-85-7	Zinc Chloride	2 mg/m ³
7791-13-1	Cobalt Chloride Hexahydrate	0.24 mg/m ³

· PAC-2:

7758-11-4	Potassium Phosphate Dibasic Anhydrous, ACS Grade	140 mg/m ³
471-34-1	Calcium Carbonate, ACS	210 mg/m ³
7487-88-9	magnesium sulphate	220 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	740 mg/m ³
150-13-0	p-Aminobenzoic Acid	69 mg/m ³
10034-96-5	Manganese Sulfate Monohydrate	15 mg/m ³
7681-11-0	Potassium Iodide	15 mg/m ³
7758-99-8	Cupric Sulfate Pentahydrate	32 mg/m ³
7646-85-7	Zinc Chloride	800 mg/m ³
7791-13-1	Cobalt Chloride Hexahydrate	25 mg/m ³

· PAC-3:

7758-11-4	Potassium Phosphate Dibasic Anhydrous, ACS Grade	830 mg/m ³
471-34-1	Calcium Carbonate, ACS	1,300 mg/m ³
7487-88-9	magnesium sulphate	1,300 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
10034-96-5	Manganese Sulfate Monohydrate	90 mg/m ³
7681-11-0	Potassium Iodide	87 mg/m ³
7758-99-8	Cupric Sulfate Pentahydrate	190 mg/m ³
7646-85-7	Zinc Chloride	4,800 mg/m ³
7791-13-1	Cobalt Chloride Hexahydrate	150 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:** 2-8 °C
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **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:**

9005-25-8 Corn Starch

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

471-34-1 Calcium Carbonate, ACS

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 TLV withdrawn

- **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: Pellets

Color: According to product specification

- **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):	Not determined.
· Ignition temperature:	343 °C (649 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	See section 10
· Explosion limits:	
Lower:	Not Applicable
Upper:	Not Applicable
· Vapor pressure:	Not applicable.
· Density:	Not Applicable
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with	Not Determined
· Water:	Insoluble.
· Partition coefficient (n-octanol/water):	Not determined.
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· Solvent content:	
Organic solvents:	0.0 %
VOC content:	0.0 g/l / 0.00 lb/gl
· Other information	No further relevant information available.

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.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **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

- **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, IMDG, IATA** Not regulated

- **UN proper shipping name**

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

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· Transport hazard class(es)	
· DOT, ADR, 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):**

10034-96-5	Manganese Sulfate Monohydrate
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7646-85-7	Zinc Chloride
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- **TSCA (Toxic Substances Control Act):**

9005-25-8	Corn Starch
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8001-29-4	Cottonseed Oil
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7758-11-4	Potassium Phosphate Dibasic Anhydrous, ACS Grade
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471-34-1	Calcium Carbonate, ACS
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67-48-1	choline chloride
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7647-14-5	Sodium Chloride
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50-81-7	L-Ascorbic Acid
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7487-88-9	magnesium sulphate
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7758-23-8	Calcium Phosphate Monobasic
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7695-91-2	DL-alpha-Tocopherol Acetate
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7631-86-9	silicon dioxide, chemically prepared
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87-89-8	D-myo-Inositol, cell culture reagent
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150-13-0	p-Aminobenzoic Acid
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59-67-6	nicotinic acid
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137-08-6	D-Pantothenic Acid Calcium Salt
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58-27-5	Menadione
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127-47-9	Vitamin A Acetate
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68-19-9	Vitamin B12
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83-88-5	riboflavin
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58-56-0	Pyridoxine Hydrochloride
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67-03-8	Thiamine Hydrochloride
7681-11-0	Potassium Iodide
7646-85-7	Zinc Chloride
59-30-3	Folic Acid
9000-01-5	Gum Arabic
50-14-6	ergocalciferol
58-85-5	D-Biotin

· 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)

10034-96-5	Manganese Sulfate Monohydrate	D
7646-85-7	Zinc Chloride	D, I, II

· TLV (Threshold Limit Value established by ACGIH)

9005-25-8	Corn Starch	A4
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· 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 03/30/2017 / -

· 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)

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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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