

Printing date 10/23/2018 Reviewed on 10/23/2018

1 Identification

- · Product identifier
- · Trade name: Vitamin D Free Diet, Rat
- · Article number: 960074
- · 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)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 0Fire = 0

- · 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: 9004-34-6 Alphacel EINECS: 232-674-9

RTECS: FJ5691460

≥2.5-<10%

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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

471-34-1	Calcium Carbonate	45 mg/m ³
137-40-6	Sodium propionate	15 mg/m^3
7791-18-6	Magnesium Chloride Hexahydrate	34 mg/m ³
7631-86-9	silicon dioxide, chemically prepared	18 mg/m³
150-13-0	p-Aminobenzoic Acid	15 mg/m³
7681-11-0	Potassium Iodide	1.3 mg/m ³
7758-99-8	Cupric Sulfate Pentahydrate	12 mg/m³
7681-49-4	Sodium Fluoride	17 mg/m³
7791-13-1	Cobalt Chloride Hexahydrate	0.24 mg/m
10034-96-5	Manganese Sulfate Monohydrate	9.2 mg/m ³
7784-24-9	Aluminum Potassium Sulfate Dodecahydrate	110 mg/m ⁻
PAC-2:		
471-34-1	Calcium Carbonate	210 mg/m³

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137-40-6 Sodium propionate	170 mg/n
7791-18-6 Magnesium Chloride Hexahydrate	370 mg/n
7631-86-9 silicon dioxide, chemically prepared	740 mg/n
150-13-0 p-Aminobenzoic Acid	69 mg/m ³
7681-11-0 Potassium Iodide	15 mg/m ³
7758-99-8 Cupric Sulfate Pentahydrate	32 mg/m ³
7681-49-4 Sodium Fluoride	90 mg/m ³
7791-13-1 Cobalt Chloride Hexahydrate	25 mg/m ³
10034-96-5 Manganese Sulfate Monohydrate	15 mg/m ³
7784-24-9 Aluminum Potassium Sulfate Dodecahydrate	1,200 mg
PAC-3:	
471-34-1 Calcium Carbonate	1,300 mg
137-40-6 Sodium propionate	1,000 mg
7791-18-6 Magnesium Chloride Hexahydrate	1,600 mg
7631-86-9 silicon dioxide, chemically prepared	4,500 mg
150-13-0 p-Aminobenzoic Acid	410 mg/n
7681-11-0 Potassium Iodide	87 mg/m ³
7758-99-8 Cupric Sulfate Pentahydrate	190 mg/n
7681-49-4 Sodium Fluoride	1,100 mg
7791-13-1 Cobalt Chloride Hexahydrate	150 mg/n
10034-96-5 Manganese Sulfate Monohydrate	90 mg/m ³
7784-24-9 Aluminum Potassium Sulfate Dodecahydrate	6,900 mg

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.
- · Control parameters

· Com	· Components with limit values that require monitoring at the workplace:		
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		

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- · 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.

· Information on basic physical and chemical properties · General Information		
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.	
Flammability (solid, gaseous):	Not determined.	
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	

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· Water:	Not determined.	
· Partition coefficient (n-octan	ol/water): Not determined.	
· Viscosity:		
Dynamic:	Not applicable.	
Kinematic:	Not applicable.	
· Solvent content:		
VOC content:	0.00 %	
	0.0~g/l / 0.00~lb/gl	
Solids content:	100.0 %	
· 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: Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:			
137-40-	137-40-6 Sodium propionate		
Oral	LD50	6,332 mg/kg (mouse)	
Dermal	LD50	1,640 mg/kg (rabbit)	

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: Irritant and potentially harmful
- · Sensitization: No sensitizing effects known.
- · 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

cure cure cure cure cure cure cure cure			
· 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.			

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· 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.

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regulated
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regulated
applicable.
applicable.

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9000-01-5 Gum Arabic 50-14-6 ergocalciferol 58-85-5 D-Biotin (Contd. of page 6)

· UN "Model Regulation": Not regulated

Sara	
Section 355	(extremely hazardous substances):
50-14-6 erg	ocalciferol
Section 313	(Specific toxic chemical listings):
	Manganese Sulfate Monohydrate
TSCA (Toxi	c Substances Control Act):
68308-23-6	, and the second
9004-34-6	Alphacel
8001-30-7	Corn Oil
7447-40-7	Potassium Chloride
471-34-1	Calcium Carbonate
7647-14-5	Sodium Chloride
67-48-1	choline chloride
50-81-7	L-Ascorbic Acid
137-40-6	Sodium propionate
2338-05-8	Ferric Citrate Purified Powder
9005-25-8	Corn Starch
7695-91-2	DL-alpha-Tocopherol Acetate
7631-86-9	silicon dioxide, chemically prepared
87-89-8	D-myo-Inositol, cell culture reagent
150-13-0	p-Aminobenzoic Acid
59-67-6	nicotinic acid
137-08-6	D-Pantothenic Acid Calcium Salt
58-27-5	Menadione
	Vitamin A Acetate
68-19-9	Vitamin B12
	riboflavin
	Pyridoxine Hydrochloride
	Thiamine Hydrochloride
	Potassium Iodide
7681-49-4	Sodium Fluoride

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· 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
	· TLV (Threshold Limit Value established by ACGIH)	
	9005-25-8 Corn Starch	A4

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

None of the ingredients is listed.

7681-49-4 Sodium Fluoride

- · **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 10/23/2018 / -
- · 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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