

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

Trade name : Vitamin Mineral Premix CH41363/2, 20 kg

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

Use of the Substance/Mixture : Additive for human nutrition to be used for the fortification and/or colouration and/or stabilisation of foods and dietary supplements

**1.3 Details of the supplier of the safety data sheet**Company : DSM Nutritional Products Europe Ltd  
P.O. Box 2676  
CH-4002 BaselTelephone : +41618157777  
Telefax : +41618157770  
E-mail address of person responsible for the SDS : sds.nutritionalproducts@dsm.com**1.4 Emergency telephone number**

+41 848 00 11 77 (Carechem 24 International) ORFILA : 01 45 42 59 59

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)**

Eye irritation, Category 2 H319: Causes serious eye irritation.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008) as amended by The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019)**

Hazard pictograms :



Signal word : Warning

Hazard statements : H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
P280 Wear eye protection/ face protection.  
**Response:**  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with wa-

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According to REACH etc. (Amendment etc.) (EU Exit) Regulations 2019



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ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337 + P313 If eye irritation persists: Get medical advice/attention.

## 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Risk of dust explosion.

## SECTION 3: Composition/information on ingredients

Brief description of the product : Mixture

### 3.2 Mixtures

#### Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
nicotinamide	98-92-0 202-713-4 01-2119968267-24-	Eye Irrit.2; H319	>= 10 - < 20
pyridoxine hydrochloride (Vitamin B6)	58-56-0 200-386-2 01-2120113157-67	Eye Dam.1; H318	>= 1 - < 3
Substances with a workplace exposure limit :			
ascorbic acid (Vitamin C)	50-81-7 200-066-2		>= 50 - < 70
calcium pantothenate, D-form	137-08-6 205-278-9		>= 1 - < 10

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.  
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.  
Wash off with soap and plenty of water.  
If symptoms persist, call a physician.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.

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If swallowed : Rinse mouth with water.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
Obtain medical attention.

## 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No specific symptoms known.

## 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Water  
Foam

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : None known.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Consider dust explosion hazard.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.  
Avoid dust formation.  
Avoid breathing dust.

### 6.2 Environmental precautions

Environmental precautions : Try to prevent the material from entering drains or water courses.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and arrange disposal without creating dust.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

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- Advice on safe handling : Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.
- Advice on protection against fire and explosion : Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed. Take precautionary measures against static discharges.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of work-day.

## 7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store at room temperature.

Keep container tightly closed and dry.

## 7.3 Specific end use(s)

- Specific use(s) : Not applicable

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
ascorbic acid	50-81-7	TWA	14 mg/m <sup>3</sup>	DSM Internal Limit
calcium pantothenate, D-form	137-08-6	TWA	10 mg/m <sup>3</sup>	DSM Internal Limit
pyridoxine hydrochloride	58-56-0	TWA	3 mg/m <sup>3</sup>	DSM Internal Limit

#### Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
pyridoxine hydrochloride	Industrial use	Inhalation	Long-term systemic effects	1.9 mg/m <sup>3</sup>
		Dermal	Long-term systemic effects	1.05 mg/kg bw/d
	Consumer use	Inhalation	Long-term systemic effects	2.8 mg/m <sup>3</sup>
		Dermal	Long-term systemic effects	0.35 mg/kg bw/d
		Oral	Long-term systemic effects	0.35 mg/kg bw/d

#### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
pyridoxine hydrochloride	Fresh water	0.072 mg/l
	Fresh water sediment	0.27 mg/kg
	Marine water	0.007 mg/l
	Marine sediment	0.027 mg/kg
	Sewage treatment plant	100 mg/l

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	Soil	0.001 mg/kg dry weight (d.w.)
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## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Safety glasses with side-shields  
Hand protection

Remarks : Consider the hazard characteristics of this product and any special workplace conditions when selecting the appropriate type of protective gloves. Glove material: for example nitrile rubber

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : powder  
Odour : No information available.  
Odour Threshold : No information available.  
pH : No data available  
Melting point/range : Not applicable  
Boiling point/boiling range : Not applicable  
Flash point : Not applicable  
Flammability (solid, gas) : May form combustible dust concentrations in air.  
Vapour pressure : Not applicable  
Relative vapour density : Not applicable  
Density : not determined  
Water solubility : not determined  
Partition coefficient: n-octanol/water : Not applicable  
Auto-ignition temperature : No data available  
Thermal decomposition : No data available  
Explosive properties : No data available  
Oxidizing properties : No data available

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

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## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

Hazardous reactions : Dust may form explosive mixture in air.

## 10.4 Conditions to avoid

Conditions to avoid : Heat

## 10.5 Incompatible materials

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

## 10.6 Hazardous decomposition products

No decomposition if used as directed.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute oral toxicity

nicotinamide : LD50 (Rat, male and female): > 2,500 mg/kg  
(OECD Test Guideline 423)

pyridoxine hydrochloride : LD50 (Rat): > 6,600 mg/kg

ascorbic acid : LD50 (Rat): 11,290 mg/kg

calcium pantothenate , D-  
form : LD50 (Rat): 21,920 mg/kg

Skin irritation : May cause skin irritation and/or dermatitis.

Eye irritation : Dust contact with the eyes can lead to mechanical irritation.

Genotoxicity in vivo

ascorbic acid : No indication for human genotoxicity known.

STOT - single exposure (A-  
cute exposure)

: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Aspiration toxicity

: No aspiration toxicity classification

## 11.2 Information on other hazards

### Experience with human exposure

#### Components:

#### ascorbic acid:

Skin contact : May be slightly irritating, especially on damp skin.

#### Further information

#### Product:

Remarks : May cause irritation of respiratory tract.

## SECTION 12: Ecological information

### 12.1 Toxicity

Toxicity to algae  
pyridoxine hydrochloride : Desmodesmus subspicatus (green algae)  
EbC50 (72 h) 5.3 mg/l  
(OECD Test Guideline 201)

No data is available on the product itself.

### 12.2 Persistence and degradability

Biodegradability  
pyridoxine hydrochloride : Readily biodegradable.  
94 % (28 d)  
(OECD Test Guideline 301E)

No data is available on the product itself.

### 12.3 Bioaccumulative potential

Bioaccumulation : No data available

Partition coefficient: n-  
octanol/water : Not applicable

### 12.4 Mobility in soil

Distribution among environ-  
mental compartments : No data available

### 12.5 Results of PBT and vPvB assessment

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

### 12.7 Other adverse effects

#### Product:

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Additional ecological information : There is no data available for this product.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Do not dispose of waste into sewer.  
Offer surplus and non-recyclable solutions to a licensed disposal company.
- Contaminated packaging : Dispose of as unused product.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

Not regulated as a dangerous good

### 14.2 UN proper shipping name

Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

Not regulated as a dangerous good

### 14.4 Packing group

Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : Not classified as dangerous in the meaning of transport regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2 Chemical safety assessment

Not applicable

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## SECTION 16: Other information

### Full text of H-Statements

- H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.



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## Full text of other abbreviations

Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
DSM Internal Limit : DSM Internal Occupational Exposure Limit (IOEL)  
DSM Internal Limit / TWA : Time weighted average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative  
DNEL - Derived No-Effect Level; NFPA - National Fire Protection Association (USA); PNEC - Predicted No-Effect Concentration; STEL - Short term exposure limit; TLV-C - Ceiling Limit Value; TWA - Time Weighted Average; WEL - Workplace Exposure Limit.

## Classification of the mixture:

Eye Irrit. 2                      H319

## Classification procedure:

Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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