according to Regulation (EC) No. 1907/2006



ROCOAT® Pyridoxine Hydrochloride 33 1/3%

0429457

Version 1.1 Revision Date 11.09.2012

Print Date 19.06.2014

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : ROCOAT® Pyridoxine Hydrochloride 33 1/3%

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

Use of the : Ingredient for pharmaceutical products, Ingredient for Substance/Mixture : and/or tablets, For the fortification of foods

1.3 Details of the supplier of the safety data sheet

Company : DSM Nutritional Products (UK) Ltd.

Heanor Gate αGB061EI0017 Delves Road

GB-DE75 7SG Heanor

Telephone : +441773536500 Telefax : +441773536600

E-mail address : sds.nutritionalproducts@dsm.com

Responsible/issuing person

1.4 Emergency telephone number

+441773536623 / +41628662314

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification (67/548/EEC, 1999/45/EC)

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

Risk of dust explosion.

3. Composition/information on ingredients

Brief description of the : Mixture (preparation) containing active ingredient and auxiliary

product substance

3.2 Mixtures

Remarks : No dangerous ingredients according to Regulation (EC) No.

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Further ingredients

Chemical Name	CAS-No.	Classification	GHS Classification	Concentration [%]
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	EC-No. Registration number		
pyridoxine hydrochloride	58-56-0 200-386-2		>= 25 - <= 50

4. First aid measures

4.1 Description of first aid measures

General advice : No hazards which require special first aid measures.

If inhaled : Remove to fresh air.

If symptoms persist, call a physician.

In case of skin contact : Take off contaminated clothing and shoes immediately.

Wash off with soap and plenty of water.

In case of eye contact : Flush eyes with water as a precaution.

> Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

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.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Foam

Dry powder

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Formation of corrosive gases by combustion.

Heating or fire can release toxic gas.

5.3 Advice for firefighters

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

for firefighters

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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Consider dust explosion hazard.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

Avoid dust formation.

6.2 Environmental precautions

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

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel.

6.4 Reference to other sections

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

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8.

No special handling advice required.

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.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Protect against light.

: Keep container tightly closed and dry.

Advice on common storage : No special restrictions on storage with other products.

Storage temperature : < 25 °C

7.3 Specific end use(s)

Specific use(s) : not applicable

8. Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Value (Form of exposure)	Control parameters	Update	Basis
pyridoxine hydrochloride	58-56-0	TWA	2 mg/m3		DSM Internal Limit

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8.2 Exposure controls

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally

required.

In case of high dust concentration use a dust mask applicable

to local conditions.

Hand protection : Glove material: for example nitrile rubber

: For prolonged or repeated contact use protective gloves.

Eye protection : Safety glasses

Skin and body protection : Protective suit

Hygiene measures : General industrial hygiene practice.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : free flowing powder
Colour : white - pale yellow

Odour : No information available.
Odour Threshold : No information available.

pH : no data available

Melting point/range : ca. 50 °C

Boiling point/boiling range : not determined Flash point : not applicable

Flammability (solid, gas) : Not classified as supporting combustion according to the

transport regulations.

Vapour pressure : not applicable
Relative vapor density : not applicable
Density : not determined
Water solubility : not determined
Partition coefficient: n- : not applicable

octanol/water

Auto-ignition temperature : No self ignition observed in the Grewer oven at temperatures

below melting point.

Thermal decomposition : Decomposes on heating.

Potential for exothermic hazard

Explosive properties : no data available

Oxidizing properties : no data available

9.2 Other information

Combustibility index for : 3 (23 °C)

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deposited dust

Dust explosion properties : KSt value: 175 m.bar/s (Milled sample, Median value of the

tested sample 0,046 mm; ISO 6184)

Dust explosion class : St1 (Milled sample, Median value of the tested sample 0,046

mm; ISO 6184)

Maximum explosion

overpressure

: 7,5 bar (Milled sample, Median value of the tested sample

0,046 mm; ISO 6184)

Minimum ignition energy : 10 - 30 mJ (Milled sample, Median value of the tested sample

0,030 mm, EN 13821)

The Minimum ignition energy (MIE) of a dust/air mix depends on the particle size the water content and the temperature of the dust. The finer and the dryer the dust the lower the MIE.

: General remark: The indicated dust explosion characteristics are only valid for this product and are sensitive to the sample's

parameters.

Powder volume resistivity : ca. 5E+09 Ohmm (Product sample, Median value of the

tested sample 0,132 mm)

Minimum ignition

temperature of a dust/air mix

: >= 340 °C (Median value of the tested sample 0,132 mm)

determined in the BAM oven

Particle size : <= 50 % <= 0,075 mm

10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Exothermic reaction with:

Heating in air.

Dust may form explosive mixture in air.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Strong acids and strong bases Strong oxidizing agents

10.6 Hazardous decomposition products

Gaseous hydrogen chloride (HCl). nitrogen oxides (NOx)

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11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity : LD50 (rat): > 6 600 mg/kg

Test substance: active ingredient

Skin corrosion/irritation : Prolonged skin contact may cause skin irritation.

Serious eye damage/eye

irritation

: None of the components is classified as an irritant.

Respiratory or skin

sensitization

: None of the components is classified as a sensitiser.

Germ cell mutagenicity

Genotoxicity in vitro : negative (Ames test)

Test substance: active ingredient

Carcinogenicity : This information is not available.

Reproductive toxicity : Reduction of fertility, Test substance: active ingredient

LOAEL: 125 mg/kg body weight (rat, male)

Teratogenicity : Did not show teratogenic effects in animal experiments.

Test substance: active ingredient

(rat, Oral)

STOT - repeated exposure : This information is not available.

Experience with human

exposure

: RDA (Recommended Daily Allowance) ca. 2,0 mg

Test substance: active ingredient

Experience with human

exposure: Skin contact

: May be slightly irritating, especially on damp skin.

Experience with human

exposure: Ingestion

: Chronic overdose may provoke the following symptoms:

: Reversible peripheral sensory neuropathy

12. Ecological information

12.1 Toxicity

Toxicity to algae : Desmodesmus subspicatus (green algae)

EbC50 (72 h) 5,3 mg/l

Test substance: Active ingredient (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability : Readily biodegradable.

94 % (28 d)

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(OECD Test Guideline 301E) Test substance: active ingredient

12.3 Bioaccumulative potential

Bioaccumulation
Partition coefficient: n-

no data availablenot applicable

octanol/water

12.4 Mobility in soil

Distribution among

: no data available

environmental compartments

12.5 Results of PBT and vPvB assessment

Assessment : This mixture contains no substance considered to be

persistent, bioaccumulating nor toxic (PBT).

: This mixture contains no substance considered to be very

persistent nor very bioaccumulating (vPvB).

12.6 Other adverse effects

Additional ecological

information

: There is no data available for this product.

13. Disposal considerations

13.1 Waste treatment methods

Product : Offer surplus and non-recyclable solutions to a licensed

disposal company.

Contaminated packaging : Empty containers should be taken to an approved waste

handling site for recycling or disposal.

14. Transport information

14.1 UN number

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

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ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

ADR

Not dangerous goods

RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

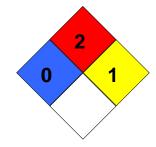
no data available

15. Regulatory information

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

NFPA Classification : Health hazard: 0

Fire Hazard: 2
Reactivity Hazard: 1



15.2 Chemical Safety Assessment

not applicable

16. Other information

according to Regulation (EC) No. 1907/2006



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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.

Abbreviations: 67/548/EEC= Dangerous Substances Directive. 1999/45/EC= Dangerous Preparations Directive. Regulation (EC) No. 1272/2008= Regulation on classification, labelling and packaging of substances and mixtures. DNEL= Derived No-Effect Level. PNEC= Predicted No-Effect Concentration. NFPA= National Fire Protection Association (USA). IATA= International Air Transport Association. IMDG= International Maritime Dangerous Goods. RID= International Rule for Transport of Dangerous Substances by Railway; ADR= European Agreement concerning the International Carriage of Dangerous Goods by Road. TWA= Time Weighted Average. STEL= Short term exposure limit.