according to Regulation (EC) No. 1907/2006



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## Quali® -Blend Immunity BV1,20 kg VO

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

1.1 Product identifier

Trade name : Quali® -Blend Immunity BV1,20 kg VO

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

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

supplements

1.3 Details of the supplier of the safety data sheet

: DSM Nutritional Products France S.A. Company

> Boulevard d'Alsace 1 FR-68128 Village Neuf

: +33389696900 Telephone Telefax : +33389696625

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

Responsible/issuing person

1.4 Emergency telephone number

+33 389 69 69 00

#### 2. Hazards identification

#### 2.1 Classification of the substance or mixture

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

Irritant R36: Irritating to eyes.

Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

#### 2.2 Label elements

## Labelling according to EC Directives (1999/45/EC)

Hazard pictograms





Irritant

Dangerous for the environment

R-phrase(s) : R36 Irritating to eyes.

> R51/53 Toxic to aquatic organisms, may cause

> > long-term adverse effects in the aquatic

environment.

Do not breathe dust. S-phrase(s) S22

> S26 In case of contact with eyes, rinse

> > immediately with plenty of water and seek

medical advice.

S57 Use appropriate container to avoid

environmental contamination.

S61 Avoid release to the environment. Refer to

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special instructions/ Safety data sheets.

## 2.3 Other hazards

Risk of dust explosion.

## 3. Composition/information on ingredients

Brief description of the

: Mixture

product

#### 3.2 Mixtures

### **Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
zinc sulphate monohydrate	7446-19-7 231-793-3	Xn; R22 Xi; R41 N; R50-R53	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 5 - < 10
nicotinamide	98-92-0 202-713-4	Xi; R36	Eye Irrit. 2; H319	>= 1 - < 5

For the full text of the R-phrases mentioned in this Section, see Section 16. For the full text of the H-Statements mentioned in this Section, see Section 16.

## 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.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

Continue rinsing eyes during transport to hospital.

Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

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.

Obtain medical attention. Do NOT induce vomiting.

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## 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 : Water

Foam

## 5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Do not allow run-off from fire fighting to enter drains or water

courses.

#### 5.3 Advice for firefighters

Further information

for firefighters

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

: 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.

Consider dust explosion hazard.

#### 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas.

Use personal protective equipment.

Ensure adequate ventilation.

Avoid dust formation.

Avoid breathing dust.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform respective authorities.

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

Pick up and arrange disposal without creating dust.

Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

For personal protection see section 8.

For disposal considerations see section 13.

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### 7. Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.

For personal protection see section 8.

Dispose of rinse water in accordance with local and national

regulations.

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.

## 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Keep container tightly closed and dry.

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
calcium pantothenate , D-form	137-08-6	TWA	10 mg/m3		DSM Internal Limit

## 8.2 Exposure controls

#### Personal protective equipment

Hand protection : Consider the hazard characteristics of this product and any

special workplace conditions when selecting the appropriate

type of protective gloves.

Eye protection : Safety glasses with side-shields

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Choose body protection according to the amount and

concentration of the dangerous substance at the work place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Wash hands before breaks and at the end of workday.

## 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

Appearance : powder

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

pН : No data available Melting point/range : not determined Boiling point/boiling range : not determined Flash point : not applicable

Flammability (solid, gas) : Not classified as flammable as defined by the transport

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regulations.

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

octanol/water

: No data available Auto-ignition temperature Thermal decomposition : No data available Explosive properties : No data available Oxidizing properties : No data available

#### 9.2 Other information

No data available

## 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

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

No decomposition if used as directed.

## 11. Toxicological information

#### 11.1 Information on toxicological effects

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Acute oral toxicity

zinc sulphate monohydrate : LD50 (rat): 1 710 mg/kg

anhydrous substance

Skin corrosion/irritation : May cause skin irritation in susceptible persons.

Serious eve damage/eve

irritation

: May irritate eyes.

Further information : May cause irritation of respiratory tract.

## 12. Ecological information

## 12.1 Toxicity

Toxicity to fish

zinc sulphate monohydrate : Oncorhynchus mykiss (rainbow trout)

LC50 (96 h) 0,43 mg/l

No data is available on the product itself.

### 12.2 Persistence and degradability

No data is available on the product itself.

## 12.3 Bioaccumulative potential

Bioaccumulation : No data available Partition coefficient: n-: not applicable

octanol/water

12.4 Mobility in soil

: No data available Distribution among

environmental compartments

#### 12.5 Results of PBT and vPvB assessment

: not determined Assessment

12.6 Other adverse effects

Additional ecological

information

: Toxic to aquatic organisms, may cause long-term adverse

effects in the aquatic environment.

## 13. Disposal considerations

### 13.1 Waste treatment methods

Product : Discharge into the environment must be avoided.

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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## 14. Transport information

#### 14.1 UN number

ADR : 3077 RID : 3077 IMDG : 3077 IATA : 3077

#### 14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (zinc sulphate monohydrate, sodium selenite)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (zinc sulphate monohydrate, sodium selenite)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S. (zinc sulphate monohydrate, sodium selenite)

: Environmentally hazardous substance, solid, n.o.s. (zinc

sulphate monohydrate, sodium selenite)

#### 14.3 Transport hazard class

 ADR
 : 9

 RID
 : 9

 IMDG
 : 9

 IATA
 : 9

#### 14.4 Packing group

#### **ADR**

**IATA** 

Packaging group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (E)

RID

Packaging group : III
Classification Code : M7
Hazard Identification Number : 90
Labels : 9

**IMDG** 

Packaging group : III
Labels : 9
EmS Number : F-A, S-F

IATA

Packing instruction (cargo : 956

aircraft)

Packaging group : III Labels : 9

#### 14.5 Environmental hazards

#### ADR

Environmentally hazardous : yes

RID

Environmentally hazardous : yes

**IMDG** 

Marine pollutant : yes

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IATA

Environmentally hazardous : yes

#### 14.6 Special precautions for user

No additional requirements.

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

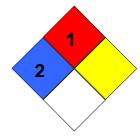
Remarks : not applicable

## 15. Regulatory information

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

NFPA Classification : Health hazard: 2

Fire Hazard: 1



#### 15.2 Chemical Safety Assessment

not applicable

## 16. Other information

#### Full text of R-phrases referred to under sections 2 and 3

R22 Harmful if swallowed. R36 Irritating to eyes.

R41 Risk of serious damage to eyes.
R50 Very toxic to aquatic organisms.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

R53 May cause long-term adverse effects in the aquatic environment.

## Full text of H-Statements referred to under sections 2 and 3.

H302 Harmful if swallowed.

H318 Causes serious eye damage. H319 Causes serious eye irritation. H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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-

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Print Date 25.06.2014 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. WEL = Workplace Exposure Limit. MSDS\_CH / EN 9/9