according to Regulation (EC) No. 1907/2006



0432210

# **Coated Ascorbic Acid, Type SC**

Revision Date 11.05.2011

Print Date 14.11.2013

Not hazardous according to the criteria of Worksafe Australia

# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Version 1.0

Trade name : Coated Ascorbic Acid, Type SC

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

Use of the : Ingredient/additive for dietary supplements

Substance/Mixture

### 1.3 Details of the supplier of the safety data sheet

Company : DSM Nutritional Products Ltd.

PO Box 2676 4002 Basel : +41618158888

Telephone : +41618158888 Telefax : +41618157253

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

Responsible/issuing person

### 1.4 Emergency telephone number

+41 62 866 2314

#### 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

### **Further ingredients**

Chemical Name	CAS-No.	Classification	GHS Classification	Concentration
	EC-No.			[%]
	Registration			
	number			
ascorbic acid (Vitamin	50-81-7			>= 96
C)	200-066-2			

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#### 4. First aid measures

## 4.1 Description of first aid measures

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

If inhaled : Move to fresh air in case of accidental inhalation of dust or

> fumes from overheating or combustion. 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.

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

> Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If swallowed : Rinse 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. Fire-fighting 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

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

courses.

#### 5.3 Advice for firefighters

for fire-fighters

Further information

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.

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#### 6. Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system.

## 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.

Dispose of rinse water in accordance with local and national

regulations.

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 from humidity.

: 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 uses

Specific use(s) : not applicable

### 8. Exposure controls/personal protection

## 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

## Personal protective equipment

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Respiratory protection : In case of high dust concentration use a dust mask applicable

to local conditions.

No personal respiratory protective equipment normally

required.

Hand protection : Glove material: Chloroprene

: Glove material: Nitrile rubber

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 : powder

Colour : white - pale yellow

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

pH : no data available

Melting point/range : not determined

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 vapour density : not applicable
Density : not determined
Water solubility : not determined

Partition coefficient: n-

: log Pow.-2,15 ( 23 °C)

octanol/water

Information refers to the main component.

Autoignition temperature : no data available

Thermal decomposition : Decomposes on heating.

Potential for exothermic hazard Heating can release hazardous gases.

: no data available

Explosive properties : no data available

Oxidizing properties : no data available

#### 9.2 Other information

Combustibility index for

deposited dust

: 3 (23 °C)

: 3 ( 100 °C)

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Dust explosion class : St(H)2 (Milled sample, Median value of the tested sample

0,041 mm, Loss on drying 0,4 %; The value was determined

in the modified Hartmann tube.)

Maximum explosion

overpressure

: 7,9 bar (Milled sample, Median value of the tested sample

0,041 mm, Loss on drying 0,4 %; ISO 6184)

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

0,041 mm, Loss on drying 0,4 %, 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. 7E+11 Ohmm (Product sample, Median value of the

tested sample 0,210 mm, Loss on drying 0,3 %)

The material can accumulate static charge and can therefore

cause electrical ignition.

Minimum ignition

temperature of a dust/air mix

: >= 350 °C (Median value of the tested sample 0,041 mm)

determined in the BAM oven

## 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

Exposure to air. (as aqueous solution) Heat.

Heat.

## 10.5 Incompatible materials

Oxidizing agents

Bases

Strong acids and strong bases Strong oxidizing agents

#### 10.6 Hazardous decomposition products

No decomposition if used as directed.

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## 11. Toxicological information

## 11.1 Information on toxicological effects

Acute oral toxicity : LD50 (rat): 11 290 mg/kg

Test substance: active ingredient

Skin corrosion/irritation : No skin irritation (rabbit, OECD Test Guideline 404, 4 h)

Test substance: active ingredient

: Prolonged skin contact may cause skin irritation.

Serious eye damage/eye

irritation

: No eye irritation (rabbit, OECD Test Guideline 405)

Test substance: active ingredient

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

Respiratory or skin

sensitization

: Did not cause sensitization. (guinea pig, Optimization Test

(Maurer))

Test substance: active ingredient

Germ cell mutagenicity

Genotoxicity in vitro : positive (Chromosome aberration test in vitro, OECD Test

Guideline 479)

Test substance: active ingredient

: positive (Ames test)

Test substance: active ingredient

Genotoxicity in vivo : No indication for human genotoxicity known.

Information refers to the main component.

Carcinogenicity : No indication for carcinogenicity known., Information refers to

the main component. (several species )

Reproductive toxicity : This information is not available.

Teratogenicity : not teratogenic

not embryotoxic

Information refers to the main component.

(several species)

STOT - repeated exposure : NOEL (Oral, rat) : 2 000 mg/kg/day

Chronic toxicity study (2 years)

Information refers to the main component.

Experience with human

exposure

: RDA (Recommended Daily Allowance) 60 mg

Information refers to the main component.

Experience with human

exposure: Skin contact

: May be slightly irritating, especially on damp skin.

Information refers to the main component.

Experience with human exposure: Ingestion

: Oral intake up to 9 g ascorbic acid per day does not produce any serious toxic effects. However, diarrhoea can occur even

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with lower consumption levels.

## 12. Ecological information

### 12.1 Toxicity

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Toxicity to fish : Oncorhynchus mykiss (rainbow trout)

LC50 (96 h) 1 020 mg/l

Information refers to the main component.

(OECD Test Guideline 203)

## 12.2 Persistence and degradability

Biodegradability : Well inherently biodegradable.

100 % (15 d) 97 %, (5 d)

(OECD Test Guideline 302B)
Test substance: active ingredient

## 12.3 Bioaccumulative potential

Bioaccumulation : no data available Partition coefficient: n- : log Pow -2,15 ( 23 °C )

octanol/water Information refers to the main component.

### 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

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Version 1.0

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

**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

not applicable

## 15. Regulatory information

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

according to Regulation (EC) No. 1907/2006



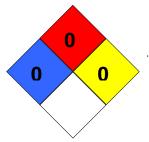
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NFPA Classification : Health hazard: 0

Fire Hazard: 0
Reactivity Hazard: 0



## 15.2 Chemical Safety Assessment

not applicable

#### 16. Other information

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. 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.

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.