

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**Dry Mixed Tocopherols 30% IP****5015721**

Version 2.1

Revision Date 06.05.2015

Print Date 15.12.2021

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

Trade name : Dry Mixed Tocopherols 30% IP

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

Use of the Substance/Mixture : For the fortification of foods, Antioxidant

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

Company : DSM Nutritional Products Europe Ltd  
PO Box 2676  
CH-4002 Basel

Telephone : +41618157777  
Telefax : +41618157770  
E-mail address : sds.nutritionalproducts@dsm.com  
Responsible/issuing person

**1.4 Emergency telephone number**

+41 848 00 11 77 (Carechem 24 International)

**2. Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.3 Other hazards**

Risk of dust explosion.

**3. Composition/information on ingredients**

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

**3.2 Mixtures**

Remarks : No hazardous ingredients

**Further ingredients**

| Chemical Name | CAS-No.<br>EC-No.<br>Registration<br>number | Classification | GHS Classification | Concentration [%] |
|---------------|---|----------------|--------------------|-------------------|
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|                            |                          |  |  |            |
|----------------------------|--------------------------|--|--|------------|
| silicon dioxide, amorphous | 112945-52-5<br>231-545-4 |  |  | >= 1 - < 5 |
|----------------------------|--------------------------|--|--|------------|

**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.  
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 : Water  
Foam

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

- Specific hazards during firefighting : 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.

**6. Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Use personal protective equipment.

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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.

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

Contains no substances with occupational exposure limit values.

### 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

Eye protection : Safety glasses

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Skin and body protection : Lightweight protective clothing  
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 : off-white - tan  
Odour : very faint  
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) : May form combustible dust concentrations in air  
Vapour pressure : Not applicable  
Relative vapour density : Not applicable  
Density : not determined  
Water solubility : dispersible  
Partition coefficient: n-octanol/water : Not applicable  
Auto-ignition temperature : No data available  
Thermal decomposition : Decomposes on heating.  
Potential for exothermic hazard  
Explosive properties : Not explosive  
Oxidizing properties : No data available

#### 9.2 Other information

Combustibility index for deposited dust : 5 ( 23 °C)  
Test performed using a similar product.  
Dust explosion properties : KSt value: 174 bar·m/s (Test performed using a similar product., Median value of the tested sample 0,066 mm, Loss on drying 2,7 %; ISO 6184)  
Dust explosion class : St1 (Test performed using a similar product., Median value of the tested sample 0,066 mm, Loss on drying 2,7 %; ISO 6184)  
Maximum explosion overpressure : 7,6 bar (Test performed using a similar product., Median value of the tested sample 0,066 mm, Loss on drying 2,7 %; ISO 6184)  
Minimum ignition energy : 10 - 30 mJ (Test performed using a similar product., Median value of the tested sample 0,064 mm, Loss on drying 2,9 %, EN 13821)  
The Minimum ignition energy (MIE) of a dust/air mix depends

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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. 2E+12 Ohmm (Test performed using a similar product., Median value of the tested sample 0,068 mm, Loss on drying 2,4 %)  
The material can accumulate static charge and can therefore cause electrical ignition.

Minimum ignition temperature of a dust/air mix : 380 °C (Median value of the tested sample 0,068 mm) determined in the BAM oven, Test performed using a similar product.

### 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

Acute oral toxicity : Acute toxicity estimate : > 5 000 mg/kg  
(Calculation method)

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

Serious eye damage/eye irritation : Dust contact with the eyes can lead to mechanical irritation.

Respiratory or skin sensitisation : No data available

Genotoxicity in vitro : No data available

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|                          |  |
|--------------------------|--|
| Genotoxicity in vivo     | : No indication for human genotoxicity known.                          |
| Carcinogenicity          | : No indication for carcinogenicity known.                             |
| Reproductive toxicity    | : This information is not available.                                   |
| STOT - repeated exposure | : This information is not available.                                   |
| Further information      | : Based on the nature of the product no relevant toxicity is expected. |

## 12. Ecological information

### 12.1 Toxicity

No data is available on the product itself.

### 12.2 Persistence and degradability

Biodegradability : No data available

### 12.3 Bioaccumulative potential

Bioaccumulation : No data available  
Partition coefficient: n-octanol/water : Not applicable

### 12.4 Mobility in soil

Distribution among environmental compartments : No data available

### 12.5 Results of PBT and vPvB assessment

Assessment : not determined

### 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. |

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### 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

**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

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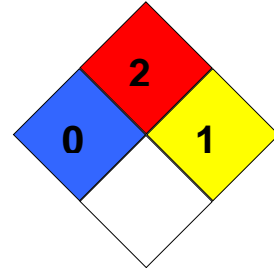
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No data available

### 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

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. WEL = Workplace Exposure Limit.