



MATERIAL SAFETY DATA SHEET

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

1.1 Product identifier:

Product name: **Vitamin E Acetate 50% CWS/S**
CAS No.: 7695-91-2

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

Used for fortification of food, beverage, health products, etc.

1.3 Details of the supplier of the safety data sheet:

Company: Aurora Industry Co.,Ltd.
Address: Room 7033, No.9-1, Haifu Road, Dalian Free Trade Zone, China
Tel: 0411-82288674

Section 2. Hazard identification

2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

The product does not meet the classification and labelling criteria given in the Hazard Communication Standard (29 CFR 1910.1200).

2.2 Label elements

Not relevant.

2.3 Other hazards

No data available

Section 3. Composition and information on ingredients

3.1 Substances

Not applicable. The product is not a substance.

3.2 Mixtures

Chemical characterization

dl- α -tocopheryl acetate in modified starch.



Hazardous ingredients

No	Substance name			Additional information
	CAS/EC	Classification(EC) 1272/2008(CLP)	Classification HCS 2012	Concentration (%b.w.)
1	Silicon dioxide, chemically prepared			
	7631-86-9 231-545-4	-----	-----	0.0-1.0

Additional ingredients

No	Substance name	CAS Number	Concentration (%b.w.)
1	dl- α -tocopheryl acetate	7695-91-2	50.0-55.0
2	Modified starch	68070-94-0	45.0-50.0

Section 4. First aid measures

4.1 Description of first aid measures:

General information

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

In case of inhalation:

Remove affected person from the immediate area. Ensure supply of fresh air.

In case of eye contact:

Separate eyelids, wash the eyes thoroughly with water (15 min).

In case of skin contact:

Wash off immediately with soap and plenty of water.

In case of ingestion:

Seek medical advice immediately. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.



Section 5. Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Water spray jet, Foam, Extinguishing powder or carbon dioxide.

Unsuitable extinguishing media:

No data available.

5.2 Special hazards arising from the substance or mixture:

In the event of fire, the following can be released: Carbon dioxide (CO₂); Carbon monoxide (CO); Combustion products of this material have to be classed invariably as a respiratory poison.

5.3 Advice for firefighters:

Use self-contained breathing apparatus. Wear protective clothing.

5.4 Further information:

No data available.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: For non-emergency personnel

Refer to protective measures listed in section 7 and 8. Ensure adequate ventilation. Avoid dust formation. Keep away sources of ignition.

For emergency responders

No data available. Personal protective equipment (PPE) – see section 8.

6.2 Environmental precautions:

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up:

Take up mechanically. When picked up, treat material as prescribed under heading “Disposal considerations”.

6.4 Reference to other sections:

See section 13 for information on disposal.

Section 7. Handling and storage

7.1 Precautions for safe handling:

Advice on safe handling

No special measures necessary if stored and handled as prescribed. Avoid the formation and deposition of dust. Provide good ventilation of working area (local exhaust ventilation,



if necessary).

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Wash hands before breaks and after work. Provide eye wash fountain in work area. Do not inhale dust.

Advice on protection against fire and explosion

Dust can form an explosive mixture with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition.

Dust explosion class

St1

7.2 Conditions for safe storage, including any incompatibilities:

Technical measures and storage conditions

Keep container tightly closed and dry in a cool, well-ventilated place.

Requirements for storage rooms and vessels

Store product in closed containers.

Advice on storage assembly None

known

7.3 Specific end use(s):

No data available.

Section 8. Exposure controls/Personal protection

8.1 Control parameters:

INGREDIENT DATA:

Source	Ingredient	TWA	STEL	Peak	Notes
US OSHA Permissible Exposure Levels (PELs)- Table Z1	Silicon dioxide	Not available	Not available	Not available	See Table Z-3
US OSHA Permissible Exposure Levels (PELs)- Table Z1	Silicon dioxide	Not available	Not available	Not available	See Table Z-3; containing less than 1% crystalline silica
US OSHA Permissible Exposure Levels (PELs)- Table Z3	Silicon dioxide	80/ (%SiO2) mg/m3 / 20 mppcf	Not available	Not available	including natural diatomaceous earth
US NIOSH	Silicon	6 mg/m3	Not	Not	Not available



Recommended Exposure Limits (RELs)	dioxide		available	available	
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EMERGENCY LIMITS:

Ingredient	TEEL-1	TEEL-2	TEEL-3
Silicon dioxide	6 mg/m3	6 mg/m3	6 mg/m3
Silicon dioxide	6 mg/m3	6 mg/m3	630 mg/m3
Silicon dioxide	18 mg/m3	200 mg/m3	1200 mg/m3
Silicon dioxide	0.07 mg/m3	0.77 mg/m3	4.6 mg/m3
Silicon dioxide	0.3 mg/m3	0.3 mg/m3	1.6 mg/m3
Silicon dioxide	6 mg/m3	6 mg/m3	85 mg/m3
Silicon dioxide	0.9 mg/m3	9.9 mg/m3	59 mg/m3

Ingredient	Original IDLH	Revised IDLH
dl- α -Tocopheryl acetate	Not Available	Not Available
Modified starch	Not Available	Not Available
Silicon dioxide	N.E. mg/m3 / N.E. ppm	3,000 mg/m3

8.2 Exposure controls

Appropriate engineering controls:

No data available.

Individual protection measures, such as personal protective equipment:

Eye/face protection:

Safety glasses (EN 166)

Hand protection:

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer’s instructions and information relating to the use, storage, care and replacement of protective gloves.

Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Respiratory protection:

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn.

Other

Normal chemical work clothing.

Environmental exposure controls No data available.



Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Physical state:

Solid

Form /Colour:

Powder/ White or off-white.

Formula:

$C_{31}H_{52}O_3$

Molecular Weight:

472.8 g/mol

Odour:

Almost no odor

Odour threshold:

No data available

pH value:

No data available **Melting**

point/range(°C):

280°C(536°F)

Boiling point/range(°C):

No data available

Decomposition point/decomposition range:

No data available

Flash point:

Not applicable

Auto-ignition temperature:

No data available

Flammability(solid, gas):

No data available

Lower flammability or explosive limits:

No data available

Upper flammability or explosive limits:

No data available

Vapour pressure:

No data available

Vapour density:

No data available



Evaporation rate:

No data available

Relative Density:

No data available

Solubility in water:

Dispersible in cool water forming a milky emulsion.

Solubility(ies):

No data available

Partition coefficient: n-octanol /water:

No data available

Viscosity:

No data available

9.2 Other information:

Granularity :

100% Through Sieve No.40 (US)

≥90.0% Through Sieve No.60 (US)

≥45.0% Through Sieve No.100 (US)

Loss on drying:

≤3.0%

Percent Volatiles by Volume:

<1

Bulk density:

No data available

Surface tension:

No data available

Explosive properties:

No data available

Oxidising properties:

No data available

Other information
Minimum ignition energy: 10mJ (without ignition) <MIE<30mJ (ignition) with inductive resistance.
Kst value: 74 bar*m/s Dust exposition characteristic value: St 1 Maximum explosion over-pressure: 6.7 bar



Section 10. Stability and reactivity

10.1 Reactivity:

No data available.

10.2 Chemical stability:

No data available.

10.3 Possibility of hazardous reactions:

No data available.

10.4 Conditions to avoid:

None, if handled according to order.

10.5 Incompatible materials:

None known.

10.6 Hazardous decomposition products:

No hazardous decomposition products known.

Section 11. Toxicological information

11.1 Information on toxicological effects Acute

oral toxicity:

No data available.

Acute dermal toxicity:

No data available.

Acute inhalational toxicity:

No data available.

Skin corrosion/Irritation:

No data available.

Serious eye damage/Irritation:

No data available.

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproduction toxicity:

No data available.

STOT-single exposure:

No data available



STOT-repeated exposure:

No data available

Aspiration hazard:

No data available

Symptoms related to the physical, chemical and toxicological characteristics:

Eye contact may cause mechanical irritation through dust particles.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Inhalation of dusts may irritate the respiratory tract.

Section 12. Ecological information

12.1 Toxicity:

Toxicity to fish (acute)
No data available
Toxicity to fish (chronic)
No data available
Toxicity to Daphnia (acute)
No data available
Toxicity to Daphnia (chronic)
No data available
Toxicity to algae (acute)
No data available
Toxicity to algae (chronic)
No data available
Bacteria toxicity
No data available

12.2 Persistence and degradability:

No data available

12.3 Bioaccumulative potential:

No data available

12.4 Mobility in soil:

No data available

12.5 Results of PBT&vPvB assessment:

No data available

12.6 Other adverse effects:

No data available



12.7 Other information:

Ecological data are not available.

Do not discharge product unmonitored into the environment.

Section 13. Disposal considerations

13.1 Waste treatment methods:

Product:

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Contaminated packaging:

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Section 14. Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI/IATA

The product is not subject to ICAO-TI/IATA regulations.

14.4 Other information

No data available

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1-14.3.

14.6 Special precautions for user

No data available

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

Not relevant

Section 15. Regulatory information

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

EU regulations

No data available.



US regulations

DL-alpha-Tocopheryl acetate (7695-91-2) is found on the following regulatory lists	"US Toxic Substances Control Act (TSCA) -Chemical Substance Inventory" List.
Silicon dioxide (7631-86-9) is found on the following regulatory lists	"US - Idaho - Toxic and Hazardous Substances- Mineral Dust" List. "US - Hawaii Air Contaminant Limits" List. "US - Wyoming Toxic and Hazardous Substances Table Z-3 Mineral Dusts" List. "US - Idaho - Limits for Air Contaminants" List. "US - Washington Toxic air pollutants and their ASIL, SQER and de minimis emission values" List. "US - Alaska Limits for Air Contaminants" List. "US Toxic Substances Control Act (TSCA) – Chemical Substance Inventory" List.

15.2 Chemical safety assessment

No data available.

Section 16. Other information

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