OTTO CHEMIE PVT LTD

201, 51-53 Maroo Bhavan, Kalbadevi, Mumbai - 400002, India. Tel : + 91 22 2207 0099 / 6638 2599 Email : info@ottokemi.com, Web : www.ottokemi.com -----ISO 9001: 2015------

MATERIAL SAFETY DATA SHEET

1.Identification 1.1GHS Product identifiel α-Tocopherol, ≥95.5% Code T 4065							
2.Hazard identification 2.1Classification of the su Skin sensitization, Catego 2.2GHS label elements, i Pictogram(s)	ory 1B						
Signal word Hazard statement(s) Precautionary statement(s)	Warning H317 May cause an allerg	ic skin reaction				
Prevention	-,	P261 Avoid breathing dust/fume/gas/mist/vapours/spray.					
Response		P272 Contaminated work clothing should not be allowed out of the workplace. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: Wash with plenty of water/ P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P321 Specific treatment (see on this label). P362+P364 Take off contaminated clothing and wash it before reuse.					
Storage	MAN N	none					
Disposal		P501 Dispose of contents/container to					
2.30ther hazards which o none	lo not result in class	Sification					
3.Composition/informatio 3.1Substances	n on ingredients						
Chemical name		s and synonyms	CAS number	EC number	Concentration		
Vitamin E	Vitamin E		10191-41-0	none	100%		
4.First-aid measures	any first aid measur						

4.1Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2Most important symptoms/effects, acute and delayed

no data available

4.3Indication of immediate medical attention and special treatment needed, if necessary /SRP:/ Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR if necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on the left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Poisons A and B/

5.Fire-fighting measures 5.1Extinguishing media Suitable extinguishing media Wear self contained breathing apparatus for fire fighting if necessary. 5.2Specific hazards arising from the chemical no data available

5.3Special protective actions for fire-fighters Wear self-contained breathing apparatus for firefighting if necessary.

6.Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided. 6.3Methods and materials for containment and cleaning up ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures: Avoid breathing

vapors, mist or gas. Environmental precautions: Do not let product enter drains. Keep in suitable, closed containers for disposal.

7.Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2. 7.2Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8\u00b0C

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 8.3Individual protection measures, such as personal protective equipment (PPE)

Eve/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Respiratory protection

Wear dust mask when handling large quantities.

Thermal hazards no data available

9.Physical and chemical properties	
Physical state	low yellow powder
Colour	Pale yellow oil
Odour	Little or no odor
Melting point/ freezing point	7\u00b0C(lit.)
Boiling point or initial boiling point and boiling	186\u00b0C(lit.)
range	
Flammability	no data available
Lower and upper explosion limit / flammability	no data available
limit	
Flash point	113\u00b0C
Auto-ignition temperature	no data available
Decomposition temperature	no data available
рН	no data available
Kinematic viscosity	no data available
Solubility	In water, 1.9X10-6 mg/L at 25\u00b0C (est)
Partition coefficient n-octanol/water (log value)	log Kow = 12.2 (est)
Vapour pressure	4.59E-10mmHg at 25\u00b0C
Density and/or relative density	0.950g/mLat 20\u00b0C(lit.)
Relative vapour density	no data available
Particle characteristics	no data available

10.Stability and reactivity 10.1Reactivity

no data available 10.2Chemical stability Unstable to UV light, alkalies, and oxidation. /Tocopherol/ 10.3Possibility of hazardous reactions no data available 10.4Conditions to avoid no data available 10.5Incompatible materials Strong oxidizing agents 10.6Hazardous decomposition products Carbon oxides

11.Toxicological information

Acute toxicity Oral: LD50 Rats oral >7000 mg/kg b.w. /d-alpha-tocopheryl succinate/ Inhalation: no data available Dermal: 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 Reproductive toxicity no data available STOT-single exposure no data available STOT-repeated exposure no data available Aspiration hazard no data available

12. Ecological information

12.1Toxicity

Toxicity to fish: no data available Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability

PURE CULTURE: Vitamin E was biodegraded by aerobic bacterial communities (genera Idiomarina and Bacillus), isolated from marine sediment and microbial mat sample(1); biodegradation appeared to involve an initial omega-oxidation of the isoprenoid side chain and subsequent beta-oxidation, affording 2,5,7,8-tetramethyl-2(2'-carboxyethyl)-6-hydroxychroman(1). 12.3Bioaccumulative potential

An estimated BCF of 39 was calculated in fish for vitamin E(SRC), using an estimated log Kow of 12.2(1) and a regression-derived equation(1). According to a classification scheme(2), this BCF suggests the potential for bioconcentration in aquatic organisms is moderate(SRC), provided the compound is not metabolized by the organism(SRC). 12.4Mobility in soil

Using a structure estimation method based on molecular connectivity indices(1), the Koc of vitamin E can be estimated to be 2.5X10+7(SRC). According to a classification scheme(2), this estimated Koc value suggests that vitamin E is expected to be immobile in soil.

12.50ther adverse effects

no data available

13.Disposal considerations 13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

14.Transport information 14.1UN Number ADR/RID: Not dangerous goods.

IMDG: Not dangerous goods.

IATA: Not dangerous goods.

14.2UN Proper Shipping Name ADR/RID: unknown IMDG: unknown IATA: unknown 14.3Transport hazard class(es) ADR/RID: Not dangerous goods. 14.4Packing group, if applicable ADR/RID: Not dangerous goods.	IMDG: Not dangerous goods. IMDG: Not dangerous goods.	IATA: Not dangerous goods. IATA: Not dangerous goods.					
14.5Environmental hazards	6 6	6 6					
ADR/RID: no 14.6Special precautions for user no data available	IMDG: no	IATA: no					
14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code no data available							
15.Regulatory information							

15.1Safety, health and environmental regulations specific for the product in question Chemical name Common names and synonyms CAS number EC number Vitamin E 10191-41-0 Vitamin E none European Inventory of Existing Commercial Chemical Substances (EINECS) Listed. EC Inventory Listed. United States Toxic Substances Control Act (TSCA) Inventory Listed. China Catalog of Hazardous chemicals 2015 Not Listed New Zealand Inventory of Chemicals (NZloC) Listed. Philippines Inventory of Chemicals and Chemical Substances (PICCS) Vietnam National Chemical Inventory _isted. Listed. Chinese Chemical Inventory of Existing Chemical Substances (China IECSC) Listed.

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.