

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

Trade product name	TOCOBIOL® SF c
Product identifier	Tocopherols
Relevant identified uses	Natural antioxidant for the cosmetics industry
Uses advised against	No known data
Details of the supplier	BTSA, BIOTECNOLOGÍAS APLICADAS, S.L. Tecnocalcá. Calle Arroba Nº4 Tel: +34 91 830 58 60 Fax: +34 91 830 5936 e-mail: info@btsa.com
Emergency telephone number	Toxicology information (24h): +34 91 562 04 20

SECTION 2: HAZARD IDENTIFICATION

Classification of the substance or mixture	The manufacture of this product is not classified as hazardous according to the EU Regulation 1272/2008.
Physical-chemical hazards	Under normal conditions, it is not considered a hazardous product.
Human health hazards	Under normal conditions, it is not considered a hazardous product.
Environmental hazards	Under normal conditions, it is not considered a hazardous product.
Signs and symptoms of exposure	
Eyes	No health risks encountered.
Skin	No health risks encountered.
Inhalation	No health risks encountered.
Ingestion	No health risks encountered.
Label elements	
Hazard pictogram(s)	No applicable.
Signal word(s)	No applicable.
Hazard statement(s)	No applicable.
Precautionary statement(s)	No applicable.
Other hazards	No other hazards have been identified.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description	Natural antioxidant made from the distillation of Non-GMO sunflower oil.
Product identifier	Tocopherols
CAS Number	59-02-9 / 16698-35-4 / 54-28-4 / 119-13-1 (or 1406-66-2)
EINECS Number	200-412-2 / 240-747-1 / 200-201-5 / 204-299-0

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Eye Contact	In case of eye contact, immediately rinse thoroughly with water, eyelids open, for at least 15 minutes. If irritation appears seek medical advice.
Skin Contact	In case of skin contact, wash with water. If irritation appears seek medical advice.
Inhalation	Take the affected person to the fresh air. If discomfort persists, then seek medical advice.
Ingestion	Wash the mouth with plenty of water. Do not induce vomiting unless specifically indicated by medical personnel. Never orally administer anything to someone who is unconscious.
Most important symptoms and effects, both acute and delayed	No applicable
Indication of any immediate medical attention and special treatment needed	No applicable

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media Suitable Unsuitable	Water fog, dry chemical powder or foam, CO ₂ Do not use water jet.
Special Hazards	This material is combustible when heated to decomposition, emitting toxic fumes. Evacuate personnel to a safe area.
Advice for firefighters	Depending on the magnitude of the fire, the use of heat protective clothing, autonomous breathing equipment, gloves, protective goggles or facial masks, and boots may be required.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures For non-emergency personnel	In case of spillage, floors can be slippery. See personal protection measures described in section 8.
For emergency responders	See personal protection measures described in section 8.
Environmental precautions Spillage on floor/water	Big amounts of product should not be allowed to penetrate the soil or go through water, drain pipes, or other watercourses.
Atmospheric spillage	Not applicable.
Methods and material for containment and cleaning up	Clean up spillage with absorbent materials (sand, earth, sawdust, etc.) In case of a more important spillage, stop the flow with a dike or retain the material such as to avoid the spillage to reach any water course. Introduce the waste into an appropriate waste container.
Reference to other sections	See sections 8 & 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling	Take the appropriate measures to prevent fire, aerosol and dust generation, and the release to the environment. General occupational hygiene measures will be followed: not to eat, drink and smoke in work areas, to wash hands after use; and to remove contaminated clothing and protective equipment before entering eating areas.
Conditions for safe storage, including Any incompatibilities	Storing the product in its tightly closed original containers under room temperature conditions, away from oxygen, heat and light.
Specific end uses	Cosmetics Industry

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters: Exposure limit values	
Inhalation	Not available (non-volatile)
Skin	No irritating (2.0%, human)
Ingestion	Not available
Exposure controls	
Appropriate engineering controls	Exhaustive ventilation must always be ensured, to keep air free from vapors.
Individual protection measures	
Eye/face protection	It is not required; however, the use of safety glasses with side-shields constitutes a good industrial practice.
Skin protection: Hands	It is not required, although wearing protective gloves constitutes a good industrial practice.
Skin protection: Others	It is not required, however personnel will use protective clothing, as constitutes a good industrial practice.
Respiratory protection	It is not required, although good exhaust ventilation is advised.
Thermal hazards	No applicable
Environmental exposure controls	No applicable

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point	> 220 °C.
Flammability limits	Non flammable
Melting point	2.5 – 3.5 ° C
Vapor pressure (mm Hg)	Calculated value: 1.80 E-8 hPa at 25°C
Vapor density (air:1)	Not available
Specific gravity (H₂O:1)	0.95 – 1.00 g/cm ³ at 25°C
Solubility	Insoluble in water, soluble in fats and oils. Water solubility: 1.3 µg/L
Flash point	250 °C
pH	Not applicable
Viscosity	Not available
Appearance and color	Oily liquid. Amber-yellowish to dark amber color. Characteristic odor.
Partition coefficient: n-octanol/water	Calculated log Pow value: 12.2 at 25°C
Auto-ignition temperature	Non flammable in air
Decomposition temperature	Not available
Explosive properties	Non explosive
Oxidizing properties	No oxidising properties

SECTION 10: STABILITY AND REACTIVITY

Reactivity	No reactive under normal conditions of handling and storage.
Chemical stability	Stable under normal conditions of handling and storage.
Possibility of hazardous reactions	None if used for intended purpose.
Conditions to avoid	Keep away from heat and sunlight.
Incompatible materials	Avoid contact with oxidizing agents.
Hazardous decomposition products	When heated, the decomposition product can emit toxic fumes.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity	Oral: Not classified. LD50 > 75000 mg/kg bw Dermal: Not classified. LD50 > 5000 mg/kg bw
Skin corrosion/irritation	No adverse effect observed (not irritating)
Serious eye damage/irritation	No adverse effect observed (not irritating)
Respiratory or skin sensitisation	No adverse effect observed (not sensitising)
Germ cell mutagenicity	No adverse effect observed (negative)
Carcinogenicity	Carcinogenicity: None of these product components in concentrations above 0.1% has been declared carcinogenic by the ACGIH, the International Agency for Research on Cancer (IARC), or by the European Commission (EC)
Reproductive toxicity	Not classified for effects on fertility and developmental toxicity
STOT-single exposure	No available data
STOT-repeated exposure	Via oral route: cardiovascular / hematological (NOAEL 500 mg/kg bw/day, rat)
Aspiration hazard	No available data

SECTION 12: ECOLOGICAL INFORMATION

Toxicity	PNEC freshwater: 0.026 mg/L PNEC marine water: 0.003 mg/L PNEC sewage treatment plant micro-organisms: 1000 mg/L PNEC terrestrial organisms (soil): 34900 mg/Kg soil dw
Persistence and degradability	Inherently biodegradable
Bioaccumulative potential	Bioaccumulation in organisms is not to be expected.
Mobility in soil	The substance is expected to adsorb to the soil phase and not to evaporate into the atmosphere when exposed to the environment.
Results of PBT and vPvB assessment	The substance is not PBT / vPvB
Other adverse effects	No hazard for air identified. This product is not considered hazardous for the environment, according to the estimated evaluation from the ingredients as stated in the EU Regulation 1272/2008.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods	Recycle the product when possible. The disposal of large quantities of material must be carried out by authorized personnel.
Disposal of contaminated containers/ packaging	Material waste and dirty empty containers must be handled and disposed according to the local/national legislation.

SECTION 14: TRANSPORT INFORMATION

This product is not considered dangerous. It is not subject to the ADR / RID / United nations / IATA / IMO provisions.

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation	Regulation (EC) 1907/2006 and subsequent amendments, including: Regulation (EC) 1272/2008 y Regulation (EU) 2015/830.
Chemical safety assessment	No available.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms	STOT: Specific Target Organ Toxicity PBT: Persistent, Bioaccumulative and Toxic vPvB: Very Persistent and Very Bioaccumulative PNEC: Predicted no-effect concentration PDS: Product Data Sheet
Literature references and sources for data	"The Encyclopedia of Vitamin E. V.R. Preedy and R.R Watson" Information from suppliers
Relevant hazard statements and/or precautionary statements	See section 2
Advice on training	See section 7

Information on applications, doses and on how to use this product is specified in the **Technical Specifications** of the product (PDS).

The information presented here is based on the component properties as communicated by our providers, as well as on our knowledge at the date of preparation of the Safety Data Sheet. This Safety Sheet aims to give information relative to the Health and Safety considerations to be accounted for during transport, storage and handling at work. The vendor does not take any responsibilities for the considerations regarding the safety measures. This document is not intended to give any guarantees on the quality of the product.

Regulatory amendment: REACH REGULATION and GHS

This document is according to the Regulation (EC) No 1907/2006 (REACH). The requirements of REACH for SDSs have been further adapted to take into account the rules of the Global Harmonized System (GHS) and the implementation of other elements of the GHS into EU legislation that were introduced by Regulation (EC) N° 1272/2008 (CLP) via amendments to Annex II of REACH.

Current Edition	Date	Reason for last change
3.3	25/07/2019	Introduction of information from REACH in sections 9, 10, 11 & 12.