

MATERIAL SAFETY DATA SHEET

TOCOBIOL® c

Complies with the EU Regulation 1907/2006
Date of issue: 14/06/2004
Last amendment: 27/06/2013 (Rev. 09)

SECTION 1: PRODUCT AND MANUFACTURER INFORMATION

Trade product name	<i>TOCOBIOL® c</i>
Product use	Natural antioxidant for the food industry cosmetic and pharmaceutical industry.
Supplier	BTSA, BIOTECNOLOGÍAS APLICADAS, S.L. Tecnocalá. Calle Arroba Nº4 28805 Alcalá de Henares, Spain Tel: +34 91 830 58 60 Fax: +34 91 830 59 36 e-mail: info@btsa-es.com
Emergency Telephone	Toxicology information (24h): +34 91 562 04 20

SECTION 2: HAZARDS IDENTIFICATION

The manufacture of this product is not classified as hazardous according to the Directive 1999/45/EC.

Physical-chemical hazards	Under normal conditions it is not considered a hazardous product.
Health hazards	Both chronic and acute studies in animals have shown that Tocopherol is a relatively non-toxic (PB262653 prepared for the FDA by the Fed. Am. Soc. for Exp. Biol 1975).
Environmental hazards	Under normal conditions of use it is not classified as hazardous.
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

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical description	Natural Antioxidant made up of mixed Natural Tocopherols from NON-GMO vegetable oil.
Name	Tocopherol
CAS Number	Sterols, Squalene, Monoglycerides 59-02-9 / 16698-35-4 / 54-28-4 / 119-13-1 83-46-5 / 111-02-4 / 18465-99-1
EINECS Number	200-412-2 / 240-747-1 / 200-201-5 / 204-299-0 201-480-6 / 203-826-1 / 242-347-2
Hazardous components	This product does not contain any hazardous component.



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SECTION 4: 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.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing means	Water fog, dry chemical powder or foam, CO ₂
Acceptable	Do not use water jet
Inappropriate	
Special Hazards	This material is combustible when heated to decomposition, emitting toxic fumes. Evacuate personnel to a safe area.
Special fire-fighting personnel protection	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	In case of spillage, floors can be slippery. See personal protection measures described in section 8.
Environmental precautions and cleaning methods	
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.
Cleaning up methods	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.

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SECTION 7: HANDLING AND STORAGE

Handling	Wash thoroughly after handling the material.
Storage	Keep in light resistant tight container. Store in a cool and dry place

SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

Limit exposure values	
Inhalation	Not available (non-volatile).
Skin	No irritating (2.0%, human).
Ingestion	Not available.
Control measures	Exhaustive ventilation must be ensured at all times, to keep air free from vapours.
Hygiene measures	Wash your hands after handling the products, before eating, smoking and using the bathroom, and at the end of the day.
Personal protective equipment	
Breathing protection	It is not required although good exhaust ventilation is advised.
Protective gloves	They are not required, although to wear protective gloves constitutes a good industrial practice.
Eye protection	It is not required; however the use of goggles with lateral eye protection constitutes a good industrial practice.
Other protective clothing	It is not required, however personnel will use apron for handling.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling point	220-240° at 0.1 mm Hg.
Flash point	264°C. Cleveland Method.
Flammability limits	Not available.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Vapour pressure (mm Hg)	Not available.
Density	0.931 g/mL.
Solubility	Practically insoluble in water. Soluble in fats and oils.
Water solubility	Practically insoluble in water.
Partition coefficient	Not available.
Viscosity	Not available.
Vapour density (air:1)	Not available.
Evaporation rat	Not available.
pH	Not available.
Appearance and colour	Oily liquid. Clear, colour from amber-yellowish to dark amber. It is possible the presence of cereous components in microcrystalline form.
Melting point	25° C.

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SECTION 10: STABILITY AND REACTIVITY

Stability	Stable under normal conditions of handling and storage. Avoid repetitive exposure to sunlight radiation.
Conditions to avoid	Keep away from heat and sunlight
Materials to avoid	Avoid contact with oxidizing agents
Hazardous decomposition products	When heated, the decomposition product can emit toxic fumes.
Polimerisation hazards	Do not occur

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity	In case there is accidental eye contact it is unlikely to suffer more than a mild transient irritation or redness. It is unlikely to damage the skin in the case of occasional or brief contact. It is unlikely to cause damage in case of small doses ingestion.
Chronic toxicity	At room temperature it is unlikely that this product may cause hazards through inhalation due to its low volatility. Carcinogenicity: None of this product components in concentrations above 0.1% has been declared carcinogenic by the ACGIH, the International Agency for Research on Cancer (IARC), nor the European Commission (EC).

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity	Not available, but due to its nature, no ecotoxicity is expected.
Persistence/degradability	Biodegradable.
Mobility	Not available
Bioaccumulation potential	This product is not expected to be bioaccumulative through the food chains in the environment.
Result of PBT assessment	Not available, but due to its nature, no PBT effect is expected.
Other hazardous effects	This product is not considered hazardous for the environment, according to the estimated evaluation from the ingredients as stated in the EU Directive 1999/45/CE.

SECTION 13: DISPOSAL CONSIDERATIONS

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

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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

Labelling requirements
Risk sentences
EU Directive

This product is not classified according to the EU Directives. The classification and labelling of this product has been carried out complying with the EU Directives 1999/45/CE and 67/548/CEE, amended and adapted.

SECTION 16: OTHER INFORMATION

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

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 Material Data Safety 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.