

# SAFETY DATA SHEET

Creation Date 10-Feb-2011

Revision Date 23-May-2018

**Revision Number** 4

1. Identification

**Product Name** 

ß-Sitosterol, with ca. 10% campesterol, ca. 75% ß-sitosterol AC132720000; AC132720050; AC132721000; AC132725000

Cat No. :

CAS-No Synonyms 83-46-5 alpha-Dihydrofucosterol; Cupreol

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use

### Details of the supplier of the safety data sheet

<u>Company</u> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Acros Organics One Reagent Lane Fair Lawn, NJ 07410

#### **Emergency Telephone Number**

For information US call: 001-800-ACROS-01 / Europe call: +32 14 57 52 11 Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe:001-703-527-3887

### 2. Hazard(s) identification

#### **Classification**

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label Elements
None required

Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Stigmast-5-en-3-ol, (3.beta.)-	83-46-5	75-80
(3.beta.,5.alpha.)-Stigmastan-3-ol	83-45-4	10-14
(24R)-Ergost-5-en-3.betaol	474-62-4	6-10
Ergostan-3-ol, (3.beta.,5.alpha.,24R)-	474-60-2	<2

	4. First-aid measures						
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.						
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.						
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.						
Most important symptoms and effects	None reasonably foreseeable.						
Notes to Physician	Treat symptomatically						
	5. Fire-fighting measures						

Use extinguishing measures that are appropriate to local circumstances and the

	surrounding environment.
Unsuitable Extinguishing Media	No information available
Flash Point	> 100 °C / > 212 °F
Method -	No information available
Autoignition Temperature	Not applicable
Explosion Limits	
Explosion Limits Upper	No data available
-	No data available No data available
Upper	No data available

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

#### Hazardous Combustion Products

Suitable Extinguishing Media

Thermal decomposition can lead to release of irritating gases and vapors

## Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 0	Flammability 1	Instability 0	Physical hazards N/A					
	6. Accidental re	elease measures						
Personal Precautions Environmental Precautions								
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust formation.								
	7. Handling	and storage						
Handling	Wear personal protective	equipment. Ensure adequate ve	entilation. Avoid contact with skin,					

	eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. To maintain product quality: Keep refrigerated.
8. E	xposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical	9. Physical and chemical properties							
Physical State	Powder Solid							
Appearance	White							
Odor	No information available							
Odor Threshold	No information available							
рН	No information available							
Melting Point/Range	139 - 142 °C / 282 - 288 °F							
Boiling Point/Range	No information available							
Flash Point	> 100 °C / > 212 °F							
Evaporation Rate	Not applicable							
Flammability (solid,gas)	No information available							
Flammability or explosive limits								
Upper	No data available							
Lower	No data available							
Vapor Pressure	No information available							
Vapor Density	Not applicable							
Specific Gravity	No information available							
Solubility	Insoluble in water							
Partition coefficient; n-octanol/water	No data available							
Autoignition Temperature	Not applicable							
Decomposition Temperature	No information available							
Viscosity	Not applicable							
Molecular Formula	C29 H50 O							
Molecular Weight	414.7							
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# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.

Incompatible Materi	als	Oxidizing agents							
Hazardous Decomposition Products Thermal decomposition can lead to release of irritating gases and vapors									
Hazardous Polymer	ization	Hazardous polymerization does not occur.							
Hazardous Reactior	IS	None under normal processing.							
11. Toxicological information									
Acute Toxicity									
Product Information	-	No acute toxicity information is available for this product							
Component Informa Toxicologically Syn		No information available							
Products <u>Delayed and immed</u>	iate effects as we	as well as chronic effects from short and long-term exposure							
Irritation		No information available							
Sensitization		No information available							
Carcinogenicity		The table below indicates whether each agency has listed any ingredient as a carcinogen.							
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico			
Stigmast-5-en-3-ol, (3.beta.)-	83-46-5	Not listed	Not listed	Not listed	Not listed	Not listed			
(3.beta.,5.alpha.)-Stig	83-45-4	Not listed	Not listed	Not listed	Not listed	Not listed			

(3.beta.)-									
(3.beta.,5.alpha.)-Stig mastan-3-ol	83-45-4	Not listed	Not listed	Not listed	Not listed	Not listed			
(24R)-Ergost-5-en-3.b etaol	474-62-4	Not listed	Not listed	Not listed	Not listed	Not listed			
Ergostan-3-ol, (3.beta.,5.alpha.,24R)-	474-60-2	Not listed	Not listed						
Mutagenic Effects		No information available							
Reproductive Effects	i	No information available.							
Developmental Effect	ts	No information ava	ailable.						
Teratogenicity		No information available.							
STOT - single exposit STOT - repeated expo		None known None known							
Aspiration hazard		No information available							
Symptoms / effects,l delayed	both acute and	and No information available							
Endocrine Disruptor	Information	No information available							
Other Adverse Effect	S	The toxicological p	properties have not	been fully investig	jated.				
12. Ecological information									

Ecotoxicity	

Do not empty into drains.

Persistence and Degradability

Insoluble in water

No information available.
Is not likely mobile in the environment due its low water solubility.
13. Disposal considerations
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
14. Transport information
Not regulated Not regulated Not regulated

All of the components in the product are on the following Inventory lists: X = listed

Not regulated

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Stigmast-5-en-3-ol, (3.beta.)-	-	-	Х	201-480-6	-		-	Х	Х	Х	-
(3.beta.,5.alpha.)-Stigmastan -3-ol	-	-	-	201-479-0	-		-	-	Х	-	-
(24R)-Ergost-5-en-3.betaol	-	-	-	207-484-4	-		-	Х	Х	Х	-

15. Regulatory information

Legend: X - Listed

IMDG/IMO

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)	Not applicable
SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> Occupational Safety and Health Administration Not applicable	
CERCLA	Not applicable
California Proposition 65	This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations	Not applicable
U.S. Department of Transportation	
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security This product does not contain any DHS chemicals.	
Other International Regulations	
Mexico - Grade	No information available
16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	10-Feb-2011 23-May-2018 23-May-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

Disclaimer

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

## **End of SDS**