

Product	BERGAMAL TOCO
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1. Identification of the substance/mixture and of the company/undertaking **1.1 Product identifier** Trade name : BERGAMAL TOCO MSDS Number : R00000213538 1.2 Relevant identified uses of the substance or mixture and uses advised against Use of the Substance/Mixture : Ingredient used in Flavour and/or Fragrance preparations 1.3 Details of the supplier of the safety data sheet Company : IFF (GREAT BRITAIN) LTD. DUDDERY HILL **CB9 8LG HAVERHILL** Telephone +441440715000 Telefax : +441440762199 E-mail address : sds@iff.com Responsible/issuing person **1.4 Emergency telephone number**

+44 1440 7 15000

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

Additional Labelling:

EUH210 Safety data sheet available on request. EUH208 Contains: TOCOPHEROL. May produce an allergic reaction.

2.3 Other hazards

None reasonably foreseeable.



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3. Composition/information on ingredients

3.1 Substances

Chemical name of the substance: 3,7-dimethyl-2-methyleneocta-6-enalChemical characterization: aliphatic aldehydesMolecular formula: C11H18OMolecular weight: 166,20 g/molCAS-No.: 22418-66-2EINECS-No.: 244-981-5

Hazardous components

Chemical Name	CAS-No. EC-No.	GHS Classification	Concentration [%]
linalool	78-70-6, 126-91-0 201-134-4	Skin Irrit.2; H315 Eye Irrit.2; H319	1 - 3
limonene	138-86-3, 5989-27-5, 5989-54-8 205-341-0, 227-813-5, 227-815-6	Flam. Liq.3; H226 Skin Sens.1B; H317 Asp. Tox.1; H304 Aquatic Chronic1; H410 Skin Irrit.2; H315 Aquatic Acute1; H400	0,1 - 0,25

For the full text of the R-phrases mentioned in this Section, see Section 16.

3.2 Mixtures

Not applicable, product is a substance.

4. First aid measures		
4.1 Description of first aid measures		
General advice	:	Take Risk and Safety phrases (section 15) into account.
If inhaled	:	Remove from exposure site to fresh air and keep at rest. Obtain medical advice.
In case of skin contact	:	Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
In case of eye contact	:	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
If swallowed	:	Rinse mouth with water and obtain medical advice.

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ffects, both acute and delayed	
: No information available.	
: No information available.	
dical attention and special treatment needed	
: No information available.	
: Carbondioxide, dry chemical, foam.	
: Do not use a direct waterjet on burning material.	
substance or mixture	
: Water may be ineffective.	
: Standard procedure for chemical fires.	
sures	
equipment and emergency procedures	
: Keep away from drains, surface- and groundwater and	nd soil.
inment and cleaning up	
adequate ventilation. Avoid excessive inhalation of v	apours. Gross
	 No information available. dical attention and special treatment needed No information available. No information available. Carbondioxide, dry chemical, foam. Do not use a direct waterjet on burning material. e substance or mixture Water may be ineffective. Standard procedure for chemical fires. Sures equipment and emergency procedures Avoid inhalation and contact with skin and eyes. A s breathing apparatus is recommended in case of a magnetized in case of a magnetized in the substance of the substance o

6.4 Reference to other sections

Prevent spreading over a wide area (e.g. by containment or oil barriers).



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7. Handling and storage	
7.1 Precautions for safe handling	
Advice on safe handling	: Avoid excessive inhalation of concentrated vapors. Follow good manufacturing practices for housekeeping and personal hygiene. Wash any exposed skin immediately after any chemical contact, before breaks and meals, and at the end of each work period. Contaminated clothing and shoes should be thoroughly cleaned before re-use.
	If appropriate, procedures used during the handling of this material should also be used when cleaning equipment or removing residual chemicals from tanks or other containers, especially when steam or hot water is used, as this may increase vapor concentrations in the workplace air. Where chemicals are openly handled, access should be restricted to properly trained employees. Keep all heated processes at the lowest necessary temperature in order to minimize emissions of volatile chemicals into the air.
Advice on protection against fire and explosion	: Keep away from ignition sources and naked flame.
7.2 Conditions for safe storage, inclu	iding any incompatibilities
Requirements for storage areas and containers	: Store in a cool, dry, ventilated area away from heat sources. Keep containers upright and tightly closed when not in use.

7.3 Specific end use(s)

Specific use(s)

: No information available.

8. Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Engineering measures

Where appropriate, use closed systems to transfer and process this material. If appropriate, isolate mixing rooms and other areas where this material is used or openly handled. Maintain these areas under negative air pressure relative to the rest of the plant.

Personal protective equipment

Respiratory protection	:	Use local exhaust ventilation around open tanks and other open



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		sources of potential exposures in order to avoid excessi including places where this material is openly weighed In addition, use general dilution ventilation of the work eliminate or reduce possible worker exposures. No respiratory protection is required during normal ope workplace where engineering controls such as adequate etc. are sufficient.	or meas area to crations	sured. in a
		If engineering controls and safe work practices are not approved, properly fitted respirator with organic vapor canisters and particulate filters should be used:		
		a)while engineering controls and appropriate safe work and/or procedures are being implemented; or b)during short term maintenance procedures when eng controls are not in normal operation or are not sufficien c)if normal operational workplace vapor concentration increased due to heat ; d)during emergencies; or e)if engineering controls and operational practices are r to reduce airborne concentrations below an established exposure limit.	ineering t; or in the ai not suffi	g ir is cient
Hand protection	:	Avoid skin contact. Use chemically resistant gloves.		
Eye protection	:	Use tight-fitting goggles, face shield or safety glasses w shields if eye contact might occur.	ith side	•
Hygiene measures	:	To the extent deemed appropriate, implement pre-place regularly scheduled ascertainment of symptoms and spi testing of lung function for workers who are regularly e this material. To the extent deemed appropriate, use an experienced a expert to identify and measure volatile chemicals that c present in the workplace air to determine potential expo ensure the continuing effectiveness of engineering cont operational practices to minimize exposure.	irometry exposed iir samp ould be osures a	to ling nd to
Environmental exposure	controls			
General advice	:	Keep away from drains, surface- and groundwater and	soil.	

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties



Product

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Appearance	: liquid		
Colour	: colorless to pale yellow		
Odour	: not determined		
Odour	: conforms to standard		
Odour Threshold	: not determined		
Flash point	: >94 °C		
Lower explosion limit	: not determined		
Upper explosion limit	: not determined		
Flammability (solid, gas)	: not determined		
Oxidizing properties	: not determined		
Auto-ignition temperature	: not determined		
pH	: not determined		
Melting point	: not determined		
Boiling point	: not determined		
Vapour pressure	: not determined		
Vapour pressure	: 0,15 hPa Calculated		
Density	: not determined		
Water solubility	: not determined		
Partition coefficient: n- octanol/water	: not determined		
Partition coefficient: n- octanol/water	: log Pow: 3,345		
Solubility in other solvents	: not determined		
Viscosity, dynamic	: not determined		
Viscosity, kinematic	: not determined		
Relative vapour density	: not determined		
Evaporation rate	: not determined		
9.2 Other information			
Refractive index	: not determined		
Relative density	: 0,8670 - 0,8750		

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10. Stability and reactivity

10.1 Reactivity

No hazards to be specially mentioned.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions

: Note: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing

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	agents.	
10.4 Conditions to avoid		
Conditions to avoid	: Direct sources of heat.	
10.5 Incompatible materials		
Materials to avoid	: Avoid contact with strong acids, alkali or oxi	dizing agents.
10.6 Hazardous decompositio	n products	
Hazardous decomposition products	: Carbon monoxide and unidentified organic c formed during combustion.	ompounds may be
11. Toxicological info	ormation	
11.1 Information on toxicolog	ical effects	
Acute toxicity		
Skin corrosion/irritation		
Skin irritation Skin irritation	No information available.Result: No skin irritation	
Serious eye damage/eye	rritation	
No information available. Respiratory or skin sens	itisation	
No information available. Sensitisation	: Species: human Result: Did not cause sensitisation on laborat Test substance: 1.2%	ory animals.
Germ cell mutagenicity		
No information available. Carcinogenicity		
No information available. Reproductive toxicity		
No information available. Target Organ Systemic	Foxicant - Single exposure	
No information available. Target Organ Systemic	Coxicant - Repeated exposure	
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ADR Not dangerous goods Environmentally hazardous : no IATA Not dangerous goods IMDG Not dangerous goods

Special precautions for : No special precautions required. user

15. Regulatory information

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



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Additional Info Water contaminating class (Germany)	 Not a hazardous substance or mixture according to EC- 67/548/EEC or 1999/45/EC. WGK 3highly water endangering 	directive	28

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

16. Other information

Full text of H-Statements referred to under sections 2 and 3.

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

In December 2003, the National Institute for Occupational Safety and Health ("NIOSH") published an Alert on preventing lung disease in workers who use or make flavorings [NIOSH Publication Number 2004-110]. In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in the Flavor Manufacturing Workplace".

Both of these reports provide recommendations for reducing employee exposure and for medical surveillance in the workplace. The recommendations in these reports are generally applicable to the use of any chemical in the workplace and you are strongly urged to review both of these reports.

The report published by FEMA also contains a list of "high priority" chemicals. If any of these chemicals are present in this product at a concentration $\geq 1.0\%$ due to an intentional addition by IFF, the chemical(s) will be identified in this safety data sheet.

According to Regulation (EC) No. 1907/2006 the information in this safety data sheet is based on the properties of the material known to IFF at the time the data sheet was issued. The safety data sheet is intended to provide information for a health and safety assessment of the material and the circumstances, under which it is packaged, stored or applied in the workplace. For such a safety assessment International Flavors & Fragrances holds no responsibility. This document is not intended for quality assurance purposes.