

Product	EDENOLIDE
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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name IFF Code Cust. Material SDS Number Product Use Description	: : : :	EDENOLIDE 00012375 00012375 300000067769 Fragrance Ingredient
Company	:	IFF Benicarló, S.L. Avda. Felipe Klein 2 12580 BENICARLÓ
Telephone Telefax Emergency telephone number	:	+34964470212 +34964473411 +34 964 470 212

SECTION 2 HAZARDS IDENTIFICATION

GHS-Classification

Not a hazardous substance or mixture.

GHS-Labelling

Carcinogenicity:

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

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Component	CAS-No.
Propanedioic acid, 1-[1-(3,3-dimethylcyclohexyl)ethyl] 3-ethyl ester	478695-70-4
Benzenepropanoic acid, 3,5-bis(1,1-dimethylethyl)-4-hydroxy-, methyl ester	6386-38-5

SECTION 4. FIRST AID MEASURES

First aid procedures		
Inhalation	:	Remove from exposure site to fresh air and keep at rest. If victim is unconscious, remove foreign bodies from the mouth. If victim has stopped breathing, give artificial respiration. Obtain medical advice.
Skin contact	:	Remove contaminated clothes. Wash thoroughly with water (and soap). Contact physician if symptoms persist.
Eye contact	:	Flush immediately with water for at least 15 minutes. Contact physician if symptoms persist.
Ingestion	:	Rinse mouth with water and obtain medical advice.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties Flash point	:	286 °F (141 °C)	
Fire fighting Suitable extinguishing media	:	Use water spray, dry chemical, carbon dioxide or appropriate foam.	
Protective equipment and precaut	ions	for firefighters	
Special protective equipment for firefighters	:	Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals. Use water spray to cool containers exposed to fire.	
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SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions	:	Avoid inhalation and contact with skin and eyes. A self-contained breathing apparatus is recommended in case of a major spill.
Environmental precautions	:	Keep away from drains, surface- and groundwater and soil.
Methods for containment / Methods for cleaning up	:	Clean up spillage promptly. Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapours. Gross spillages should be contained by use of sand or inert powder and disposed of according to the local regulations.

SECTION 7. HANDLING AND STORAGE

Handling	:	Avoid excessive inhalation of concentra manufacturing practices for housekeepin Wash any exposed skin immediately aft before breaks and meals, and at the end Contaminated clothing and shoes should before re-use.	ng and personal hygiene. ter any chemical contact, of each work period.
		If appropriate, procedures used during the should also be used when cleaning equivalent chemicals from tanks or other container hot water is used, as this may increase were workplace air. Where chemicals are operestricted to properly trained employees Keep all heated processes at the lowest order to minimize emissions of volatile	pment or removing residual rs, especially when steam or vapor concentrations in the enly handled, access should be s. necessary temperature in
Advice on protection against fire and explosion	:	Keep away from ignition sources and na	aked flame.
Requirements for storage areas and containers	:	Store in a cool, dry, ventilated area awa containers upright and tightly closed wh	
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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Engineering measures	
Engineering measures	: Where feasible, 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. Where feasible, use closed systems to transfer and process this material
Personal protective equipment	
Eye protection	: Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.
Hand protection	: Avoid skin contact. Use chemically resistant gloves.
Respiratory protection	 Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation, including places where this material is openly weighed or measured. In addition, use general dilution ventilation of the work area to eliminate or reduce possible worker exposures. No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient. If engineering controls and safe work practices are not sufficient, an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters should be used: a)while engineering controls and appropriate safe work practices and/or procedures are being implemented; or b)during short term maintenance procedures when engineering controls are not in normal operation or are not sufficient; or c)if normal operational workplace vapor concentration in the air is increased due to heat ; d)during emergencies; or e)if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational
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	exposure limit.			
Hygiene measures	 To the extent deemed appropriate, implement pre-plaregularly scheduled ascertainment of symptoms and stesting of lung function for workers who are regularly this material. To the extent deemed appropriate, use an experienced expert to identify and measure volatile chemicals that present in the workplace air to determine potential exensure the continuing effectiveness of engineering cooperational practices to minimize exposure. 	spirometr y exposed d air samp t could be posures a	y 1 to plin e and	-
Protective measures	 In December 2003, the National Institute for Occupate and Health ("NIOSH") published an Alert on prevent disease in workers who use or make flavorings [NIOS Number 2004-110]. In August 2004, the United States Flavor and Extract Association (FEMA) issued a report entitled "Respirate the Flavor Manufacturing Workplace". Both of these reports provide recommendations for re- employee exposure and for medical surveillance in the The recommendations in these reports are generally a use of any chemical in the workplace and you are struc- review both of these reports. The report published by FEMA also contains a list of chemicals. If any of these chemicals are present in this concentration >= 1.0% due to an intentional addition chemical(s) will be identified in this safety data sheet 	ing lung SH Public atory Safe educing workpl applicable ongly urg f "high pr is produc by IFF, t	cation cture ety i lace to ged t iori t at	on ers in e. the to ty"

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state	: liquid
Appearance	: CLEAR LIQUID
Colour	: colorless
Odour	: conforms to standard
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Safety data				
Flash point	: 286 °F (141 °C)			
Vapour pressure	: < .01 hPa (< 0.01 hPa) Note: Calculated			
Relative density (20 °C)	: 1.0010 - 1.0070			
SECTION 10. STABILITY AND REACTIVITY				
Conditions to avoid	: Remarks: Direct sources of heat.			
Chemical stability	: Remarks: Presents no significant reactivity hazard, by contact with water. Avoid contact with strong acids, oxidizing agents.			
Hazardous decomposition produ	 Note: Carbon monoxide and unidentified organic cor be formed during combustion. 	npounds may		
SECTION 11. TOXICOLOGICAL INFORMATION				
Acute oral toxicity	: Acute toxicity estimate Dose: 2.503 mg/kg			

	Dose: 2,503 mg/kg Method: Calculation method
Acute dermal toxicity	: Acute toxicity estimate Dose: 2,503 mg/kg Method: Calculation method

SECTION 12. ECOLOGICAL INFORMATION

SECTION 13. DISPOSAL CONSIDERATIONS

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Contaminated packaging

: Place material into sealed containers and dispose of in accordance with local, state and federal regulations.

SECTION 14. TRANSPORT INFORMATION

DOT	Not dangerous goods	
ΙΑΤΑ	UN number Description of the goods	 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPANEDIOIC ACID, 1-(3,3- DIMETHYLCYCLOHEXYL)ETHYL ETHYL ESTER)
	Class Packing group ICAO-Labels	: 9 : III : 9
IMDG	UN number Description of the goods	 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PROPANEDIOIC ACID, 1-(3,3- DIMETHYLCYCLOHEXYL)ETHYL ETHYL ESTER)
	Class Packing group IMDG-Labels EmSNumber 1 EmSNumber 2 Marine pollutant	 9 III 9 F-A S-F yes (PROPANEDIOIC ACID, 1-(3,3-DIMETHYLCYCLOHEXYL)ETHYL ETHYL ESTER)

SECTION 15. REGULATORY INFORMATION

 SARA 311/312 Hazards
 : No SARA Hazards

 Reportable Quantity
 :

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HMIS Classification	: Health hazard: 1 Flammability: 1 Physical and chemical hazards: 0		

SECTION 16. OTHER INFORMATION

Further information

The information in this MSDS was obtained from current and reliable sources. However the data is provided without any warrant, expressed or implied, regarding its correctness or accuracy. Since the use, handling, storage and disposal of this product are beyond IFF control, it is the responsibility of the user both to determine safe conditions for the use of this product and to assume liability of loss, damage, or expense arising out of the product's improper use. No warranty expressed or implied regarding the product described herein shall be created by or inferred from any statement or omission in this MSDS. Various Federal, State or Provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in this MSDS. The user should review these regulations to ensure full compliance.

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