

Product

GERANYL ISO BUTYRATE

Print Date

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

06/10/2020

Product name IFF Code Cust. Material SDS Number Product Use Description	:	GERANYL ISO BUTYRATE 00073280 00073280 R00000222769 Fragrance Compound
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

Skin sensitisation, Sub-category 1B

GHS-Labelling

Symbol(s)

Signal word	:	Warning
Hazard statements	:	H317: May cause an allergic skin reaction.
Precautionary statements	:	P280: Wear protective gloves. P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

: 🔨

Carcinogenicity:

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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

Chemical nature

: Fragrance for consumer product

Hazardous components

Component	CAS-No.
Propanoic acid, 2-methyl-, (2E)-3,7-dimethyl-2,6-octadien-1-yl ester	2345-26-8
Propanoic acid, 2-methyl-, 3,7-dimethyl-6-octen-1-yl ester	97-89-2
Propanoic acid, 2-methyl-, (2Z)-3,7-dimethyl-2,6-octadien-1-yl ester	2345-24-6

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

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Flammable properties Flash point	: > 212.0 °F (> 100.0 °C)	
Fire fighting Suitable extinguishing media	: Use water spray, dry chemical, carbon dioxide or	appropriate foam.
Protective equipment and pre	cautions for firefighters	
Special protective equipment for firefighters	or : Wear NIOSH approved self-contained breathing a protective clothing when fighting fires involving o water spray to cool containers exposed to fire.	**

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 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 materia	
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		should also be used when cleaning equipment or rer chemicals from tanks or other containers, especially hot water is used, as this may increase vapor concen workplace air. Where chemicals are openly handled restricted to properly trained employees. Keep all heated processes at the lowest necessary te order to minimize emissions of volatile chemicals in	when stea atrations ir , access sh mperature	am or n the nould be e in
Advice on protection against fa and explosion	ire :	Keep away from ignition sources and naked flame.		
Requirements for storage areas containers	and :	Store in a cool, dry, ventilated area away from heat containers upright and tightly closed when not in us		Keep

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.
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SAFETY DATA SHEET SAFETY DATA SHEET INTERNATIONAL FLAVORS & FRAGRANCES

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	If engineering controls and safe work practices are n approved, properly fitted respirator with organic vap canisters and particulate filters should be used: a)while engineering controls and appropriate safe we and/or procedures are being implemented; or b)during short term maintenance procedures when e controls are not in normal operation or are not suffic c)if normal operational workplace vapor concentrati increased due to heat ;	or cartri ork pract engineeri ient; or	dges or ices ng	_
	d)during emergencies; or e)if engineering controls and operational practices at to reduce airborne concentrations below an establish exposure limit.			
Hygiene measures	 To the extent deemed appropriate, implement pre-pl regularly scheduled ascertainment of symptoms and testing of lung function for workers who are regularly this material. To the extent deemed appropriate, use an experience expert to identify and measure volatile chemicals that present in the workplace air to determine potential expert to operational practices to minimize exposure. 	spirome ly expose ed air san at could l xposures	try ed to npling be and to	
Protective measures	 In December 2003, the National Institute for Occupa and Health ("NIOSH") published an Alert on preven disease in workers who use or make flavorings [NIO Number 2004-110]. In August 2004, the United States Flavor and Extrac Association (FEMA) issued a report entitled "Respin the Flavor Manufacturing Workplace". Both of these reports provide recommendations for r employee exposure and for medical surveillance in t The recommendations in these reports are generally use of any chemical in the workplace and you are str review both of these reports. The report published by FEMA also contains a list o chemicals. If any of these chemicals are present in th concentration >= 1.0% due to an intentional addition 	ting lung SH Publ t Manufa atory Sa reducing he workj applicab rongly ur f "high p nis produ	dication acturers fety in place. le to the ged to priority" ct at a	
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chemical(s) will be identified in this safety data sheet.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state Appearance Colour	:	liquid CLEAR LIQUID colorless
Odour	:	conforms to standard
Safety data		
Flash point	:	> 212.0 °F (> 100.0 °C)
Vapour pressure	:	< .02 hPa (< 0.02 hPa) Note: Calculated
Relative density (20 °C)	:	0.8850 - 0.8930
Partition coefficient: n-octanol/water	:	log Pow: 4.530

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Remarks: Direct sources of heat.	
Chemical stability	: Remarks: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents.	
Hazardous decomposition products	: Note: Carbon monoxide and unidentified organic compounds may be formed during combustion.	1

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	: LD50 Oral Rat
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Product GERANYL ISO BUTYRATE Print Date 06/10/2020 Page 7 (11) Dose: > 5,000 mg/kg Acute oral toxicity (Component) : Component: 106-24-1 LD50 Rat Dose: 3,600 mg/kg Method: No information available. Remarks: REACH data Component: 106-24-1 Acute dermal toxicity : (Component) LD50 Rabbit Dose: > 5,000 mg/kgMethod: No information available. Remarks: REACH data Skin irritation (Component) Component: 106-24-1 : Rabbit Classification: Causes skin irritation. Result: irritating Method: OECD Test Guideline 404 Exposure time: 4 h Remarks: REACH data Eye irritation(Component) Component: 106-24-1 : Rabbit Classification: Causes serious eye damage. Result: Severe eye irritation Method: OECD Test Guideline 405 Exposure time: 1 h Remarks: REACH data Sensitisation Classification: The product is a skin sensitiser, sub-category 1B. : Sensitisation (Component) : Component: 106-24-1 Local lymph node assay (LLNA) Mouse Classification: May cause sensitisation by skin contact. Result: positive Test substance: 6.0% in petrolatum Repeated dose Component: 106-24-1 • toxicity(Component) Version : 6 **Revision Date** : 04/06/2020

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SECTION 12. ECOLOGICAL INFORMATION

Component:		
106-24-1	Geraniol	Toxicity to fish:
		static test LC50
		Species: Danio rerio (zebra fish)
		Dose: 22 mg/l
		Exposure time: 96 h
		Analytical monitoring: yes
		Method: OECD Test Guideline 203
		REACH data
		Toxicity to fish:
		static test NOEC
		Species: Danio rerio (zebra fish)
		Dose: 10 mg/l
		Exposure time: 96 h
		Analytical monitoring: yes
		Method: OECD Test Guideline 203
		REACH data
		<u>Toxicity to fish:</u>
		static test LC0
		Species: Danio rerio (zebra fish)
		Dose: 10 mg/l
		Exposure time: 96 h
		Analytical monitoring: yes
		Method: OECD Test Guideline 203
		REACH data
		Toxicity to fish:
		static test LC100
		Species: Danio rerio (zebra fish)
		Dose: 46.4 mg/l
		Exposure time: 96 h
		Analytical monitoring: yes
		Method: OECD Test Guideline 203
		REACH data
		Toxicity to daphnia and other aquatic invertebrates:
		static test EC50
		Species: Daphnia magna (Water flea)
		Dose: 10.8 mg/l
		Exposure time: 48 h
		Analytical monitoring: yes

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Product GERANYL ISO BUTYRATE Print Date 06/10/2020 Page 9 (11) Method: OECD Test Guideline 202 **REACH** data Toxicity to daphnia and other aquatic invertebrates: static test EC0 Species: Daphnia magna (Water flea) Dose: 4 mg/l Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202 **REACH** data Toxicity to daphnia and other aquatic invertebrates: static test EC100 Species: Dose: 41.9 mg/l Exposure time: 48 h Analytical monitoring: yes Method: OECD Test Guideline 202 **REACH** data Toxicity to algae: static testEC50 Species: Scenedesmus capricornutum (fresh water algae) Dose: 13.10 mg/l Exposure time: 72 h Analytical monitoring: yes Method: OECD Test Guideline 201 **REACH** data Toxicity to algae: static testEC10 Species: Scenedesmus capricornutum (fresh water algae) Dose: 3.77 mg/l Exposure time: 72 h Analytical monitoring: yes Method: OECD Test Guideline 201 **REACH** data Toxicity to algae: static testNOEC Species: Scenedesmus capricornutum (fresh water algae) Dose: 1 mg/l

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Exposure time: 72 h Analytical monitoring: yes Method: OECD Test Guideline 201 REACH data

SECTION 13. DISPOSAL CONSIDERATIONS

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. (DIPENTENE)
	Class	:	9
	Packing group	:	111
	ICAO-Labels	:	9
IMDG	UN number Description of the goods		3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIPENTENE)
	Class	:	
	Packing group	:	
	IMDG-Labels	:	-
	EmSNumber 1 EmSNumber 2		F-A S-F
	Marine pollutant	:	yes (DIPENTENE)

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards

: Acute Health Hazard

Reportable Quantity

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HMIS Classification	: Health hazard: 2 Chronic Health Hazard: / 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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