

Product

ORANGE FLOWER ETHER

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	: : :	ORANGE FLOWER ETHER 00202929 00202929 R00000494426 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

Flammable liquids, Category 4 Skin irritation, Category 2

GHS-Labelling

Symbol(s)	
Signal word	: Warning
Hazard statements	: H227: Combustible liquid. H315: Causes skin irritation.
Precautionary statements	 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P280: Wear protective gloves. P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
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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

Component	CAS-No.
Cyclohexene, 4-(1-methoxy-1-methylethyl)-1-methyl-, 4-(1-Methoxy-1- methylethyl)-1-methylcyclohexene; .alphaTerpineol, methyl ether	14576-08-0
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-	128-37-0

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	: 180.00 °F (82.22 °C)			
Fire fighting Suitable extinguishing media	: Use water spray, dry chemical, carbon dioxide or	r appropriate foam.		
Protective equipment and precautions for firefighters				
Special protective equipment f firefighters	for : Wear NIOSH approved self-contained breathing protective clothing when fighting fires involving water spray to cool containers exposed to fire.	11		

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	Listed by	Value type	Exposure limit(s)
3-Cyclohexene-1- methanol, .alpha.,.alpha.,4- trimethyl-	USA. ACGIH Threshold Limit Values (TLV)	8-hour, time-weighted average	20 ppm

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
: Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.
: Avoid skin contact. Use chemically resistant gloves.
: Use local exhaust ventilation around open tanks and other open sources of potential exposures in order to avoid excessive inhalation,
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SAFETY DATA SHEET **SAFETY DATA SHEE I** INTERNATIONAL FLAVORS & FRAGRANCES

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	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 exposure limit.
Hygiene measures	 To the extent deemed appropriate, implement pre-placement and regularly scheduled ascertainment of symptoms and spirometry testing of lung function for workers who are regularly exposed to this material. To the extent deemed appropriate, use an experienced air sampling expert to identify and measure volatile chemicals that could be present in the workplace air to determine potential exposures and to ensure the continuing effectiveness of engineering controls and operational practices to minimize exposure.
Protective measures	 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.
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	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	rongly ur of "high p	ged orio	l to rity"

chemicals. If any of these chemicals are present in this product at a concentration >= 1.0% due to an intentional addition by IFF, the 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	:	180.00 °F (82.22 °C)
Vapour pressure	:	.01 hPa (0.01 hPa)
Relative density (20 °C)	:	0.8980 - 0.9060
Partition coefficient: n-octanol/water	:	log Pow: 3.540

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.
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SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	:	Acute toxicity estimate Dose: 2,442 mg/kg Method: Calculation method
Acute oral toxicity (Component)	:	Component: 14576-08-0 LD50 Rat Dose: 2,500 mg/kg
		Component: 98-55-5 LD50 Rat Dose: 4,300 mg/kg Method: OECD Test Guideline 401 Remarks: RIFM
Acute dermal toxicity	:	Acute toxicity estimate Dose: > 5,000 mg/kg Method: Calculation method
Acute dermal toxicity (Component)	:	Component: 98-55-5 LD50 Rabbit Dose: > 3,000 mg/kg Method: OECD Test Guideline 402 LD50 Rat Dose: > 2,000 mg/kg Method: OECD Test Guideline 402 Remarks: REACH data Based on data from similar materials
Skin irritation (Component)	:	Component: 98-55-5 Rabbit Classification: Causes skin irritation. Result: Skin irritation Method: OECD Test Guideline 404 Exposure time: 24 h
Eye irritation(Component)	:	Component: 98-55-5 Rabbit Classification: Causes serious eye irritation.
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Sensitisation (Component)	Result: Eye irritation Method: OECD Test Guideline 405 Exposure time: 72 h : Component: 98-55-5 LLNA Rat		
	Result: causes no sensitization Method: OECD Test Guideline 429		
Repeated dose toxicity(Component)	 Component: 98-55-5 OralRat NOEL: > 314 mg/kg Method: OECD Test Guideline 408 Remarks: REACH data Based on data from similar materials OralRat NOEL: > 750 mg/kg Method: OECD Test Guideline 422 Remarks: REACH data Based on data from similar materials 		
Carcinogenicity (Component)	: Component: 98-55-5		

SECTION 12. ECOLOGICAL INFORMATION

Component:	alaha Taminaal	Tariaita ta fal
98-55-5	alpha-Terpineol	Toxicity to fish: semi-static test LC50
		Species: Brachydanio rerio (zebrafish)
		Dose: 70 mg/l
		Exposure time: 96 h
		Method: OECD Test Guideline 203
		Information taken from reference works and the
		literature.
		Toxicity to daphnia and other aquatic invertebrates:
		static test EC50
		Species: Daphnia magna (Water flea)
		Dose: 73 mg/l
		Exposure time: 48 h
		Method: OECD Test Guideline 202

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		Information taken from reference work literature. <u>Toxicity to algae:</u> static testEC50 Species: Pseudokirchneriella subcapita Dose: 68 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Information taken from reference work literature. <u>Toxicity to algae:</u> static testNOEC Species: Pseudokirchneriella subcapita Dose: 3.9 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 Information taken from reference work literature. <u>Toxicity to bacteria:</u> static test NOEC Species: activated sludge Dose: 25.7 mg/l Method: OECD Test Guideline 310	ata (aglac ks and th ata (aglac	e e

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	Proper shipping name	: Combustible liquid, n.o.s. (4-(1-methoxy-1-methylethyl)-1- methylcyclohexene)
	Labels	: NONE

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	UN number Class Packing group Emergency Resp Guidebook Numl			
DOT NON-BU	LK Not danger	ous goods		
ΙΑΤΑ	Not dangerous g	oods		
IMDG	Not dangerous g	oods		
SECTION 1	5. REGULATOR	<i>EY INFORMATION</i>		
SARA 311/312	Hazards	: Fire Hazard Acute Health Hazard		
Reportable Qu	antity	:		
HMIS Classifie	cation	: Health hazard: 1 Flammability: 2 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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