

Product	INDOLAROME
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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name Sales ID MSDS Number Product Use Description	:	INDOLAROME 00093560 R00000224519 Fragrance Ingredient
Company	:	International Flavours & Fragrances (Hangzhou) Co., Ltd. East of Xinanjiang Town 311600 Jiande City
Telephone Telefax Emergency telephone number	: : :	+8657164735488 +8657164722092 +65 6559 1335

### SECTION 2 HAZARDS IDENTIFICATION

#### **Emergency Overview**

**OSHA Hazards** 

: Moderate skin irritant Moderate eye irritant

#### 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 identified as a carcinogen or potential carcinogen by OSHA.

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.

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

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### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Hazardous components

Component	CAS-No.
Indeno[1,2-d]-1,3-dioxin, 4,4a,5,9b-tetrahydro-, 4,5-Indeno-1,3-dioxan	18096-62-3

## SECTION 4. FIRST AID MEASURES

#### First aid procedures

Inhalation	:	Remove from exposure site to fresh air and keep at rest. 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. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point	:	Remarks: not applicable
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#### **Fire fighting**

- Suitable extinguishing media : Use water spray, dry chemical, carbon dioxide or appropriate foam.
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#### Protective equipment and precautions for firefighters

Special protective equipment for fire-fighters	:	Wear NIOSH approved self-contained breathing apparatus and full protective clothing when fighting fires involving chemicals.
lor me lighters		Use 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 or exhaust. Avoid excessive inhalation of dust and vapours. Contain and recover free product. Dispose 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 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

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# Material Safety Data Sheet INTERNATIONAL FLAVORS & FRAGRANCES

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		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.
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.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

#### Engineering measures

this material is used under negative air p	ate mixing rooms and other areas where l or openly handled. Maintain these areas pressure relative to the rest of the plant. e closed systems to transfer and process
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Personal	protective	equipment
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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	<ul> <li>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</li> </ul>

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	in a workplace where engineering controls ventilation, etc. are sufficient.	s such as adequate
	If engineering controls and safe work prace sufficient, an approved, properly fitted res vapor cartridges or canisters and particula used:	spirator with organic
	<ul> <li>a)while engineering controls and appropri practices and/or procedures are being im</li> <li>b)during short term maintenance procedu</li> <li>engineering controls are not in normal op</li> <li>sufficient; or</li> </ul>	plemented; or ıres when
	<ul> <li>c) if normal operational workplace vapor c air is increased due to heat;</li> <li>d) during emergencies; or</li> <li>e) if engineering controls and operational sufficient to reduce airborne concentration established occupational exposure limit.</li> </ul>	practices are not
Hygiene measures	<ul> <li>To the extent deemed appropriate, impler and regularly scheduled ascertainment of spirometry testing of lung function for wor regularly exposed to this material. To the extent deemed appropriate, use an sampling expert to identify and measure v that could be present in the workplace air</li> </ul>	f symptoms and kers who are n experienced air volatile chemicals

 

 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

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

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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

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.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Physical state Colour	: solid : white
Odour	: conforms to standard
Safety data	
Flash point	: Note: not applicable
Freezing point	: 96.80 - 107.60 °F (36.00 - 42.00 °C)
Vapour pressure	: Note: not applicable

### 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

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Hazardous decomposition products	:	oxidizing agents. Note: Carbon monoxide and unidentified organic may be formed during combustion.	compou	Jud	s
SECTION 11. TOXICOL	<b>OGIC</b> A	L INFORMATION			
Acute oral toxicity	:	Acute toxicity estimate Dose: 3,327 mg/kg Method: Calculation method			
Acute oral toxicity (Compone	ent) :	Component: 18096-62-3 LD50 rat Dose: 3,327 mg/kg			
Skin irritation (Component)	:	Component: 18096-62-3 human Result: No skin irritation Method: repeated insult patch test			
Eye irritation(Component)	:	Component: 18096-62-3 rabbit Result: Mild eye irritation			
Sensitisation (Component)	:	Component: 18096-62-3 human Result: Did not cause sensitization on laboratory a Test substance: 0.20%	animals.		
Repeated dose toxicity(Component)	:	Component: 18096-62-3			

## SECTION 12. ECOLOGICAL INFORMATION

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### 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

IATA Not dangerous goods

IMDG Not dangerous goods

### SECTION 15. REGULATORY INFORMATION

OSHA Hazards SARA 311/312 Hazards		Moderate skin irritant, Moderate eye irritant Acute Health Hazard
HMIS Classification	:	Health hazard: 1 Flammability: 0 Physical and chemical hazards: 0

### SECTION 16. OTHER INFORMATION

**Further information** 

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