

Product METH IONONE BETA COEUR BHT

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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name MSDS Number Product Use Description	: : :	METH IONONE BETA COEUR BHT R00000493290 Fragrance Ingredient
Company	:	International Flavours & Fragrances (Zhejiang) Co., Ltd. Hangzhou Economic & Technological Development AreaNo. 321, 20 Ave310018 Zhejiang
Telephone Telefax Emergency telephone	: : :	+8657128928321 +8657128928306

## SECTION 2 HAZARDS IDENTIFICATION

#### **Emergency Overview**

**OSHA Hazards** 

: Moderate skin irritant Moderate eye irritant

#### Carcinogenicity:

International Flavours & Fragrances

Hangzhou Economic & Technological

Development AreaNo. 321, 20 Ave310018

(Zheijang) Co., Ltd.

Zhejiang

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.
1-Penten-3-one, 1-(2,6,6-trimethyl-1-cyclohexen-1-yl)-, 5-(2,6,6- Trimethyl-1-cyclohexenyl)-4-penten-3-one	127-43-5
1-Penten-3-one, 1-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	7779-30-8
4-(2,6,6-Trimethyl-2-cyclohexen-1-yl)-3-methyl-3-buten-2-one, 3-Buten-2-one, 3-methyl-4-(2,6,6-trimethyl-2-cyclohexen-1-yl)-	127-51-5
Phenol, 2,6-bis(1,1-dimethylethyl)-4-methyl-, 2,6-Bis(1,1-dimethylethyl)- 4-methylphenol; 2,6-Di-tert-butyl-4-methylphenol; 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. 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.

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## SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties Flash point	:	201.20 °F (94.00 °C)
Fire fighting Suitable extinguishing media	:	Use water spray, dry chemical, carbon dioxide or appropriate foam.
Protective equipment and precautions for firefighters		
Special protective equipment	:	Wear NIOSH approved self-contained breathing apparatus and

:	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.
	:

## 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

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: Avoid excessive inhalation of concentrated vapors. Follow Handling 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 Keep away from ignition sources and naked flame. fire and explosion Requirements for storage areas : Store in a cool, dry, ventilated area away from heat sources. and containers Keep containers upright and tightly closed when not in use.

## 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



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#### Personal protective equipment

Eye protection	<ul> <li>Use tight-fitting goggles, face shield or safety glasses with side shields if eye contact might occur.</li> </ul>
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.</li> <li>No respiratory protection is required during normal operations in a workplace where engineering controls such as adequate ventilation, etc. are sufficient.</li> </ul>
	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:
	<ul> <li>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</li> <li>c)if normal operational workplace vapor concentration in the air is increased due to heat;</li> <li>d)during emergencies; or</li> <li>e)if engineering controls and operational practices are not sufficient to reduce airborne concentrations below an established occupational exposure limit.</li> </ul>
Hygiene measures	<ul> <li>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.</li> <li>To the extent deemed appropriate, use an experienced air</li> </ul>

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Protective measures	<ul> <li>sampling expert to identify and measure volatile that could be present in the workplace air to de potential exposures and to ensure the continuir effectiveness of engineering controls and opera practices to minimize exposure.</li> <li>In December 2003, the National Institute for Oc Safety and Health ("NIOSH") published an Aler lung disease in workers who use or make flavo Publication Number 2004-110]. In August 2004, the United States Flavor and E Manufacturers Association (FEMA) issued a re "Respiratory Safety in the Flavor Manufacturing Both of these reports provide recommendations employee exposure and for medical surveilland workplace. The recommendations in these reports encountered and you are strongly urged to review reports. The report published by FEMA also contains a priority" chemicals. If any of these chemicals art this product at a concentration &gt;= 1.0% due to addition by IFF, the chemical(s) will be identifie data sheet.</li> </ul>	etermine ng ational ccupation of on pre- brings [N Extract port enti g Workpl s for red ce in the orts are l in the v both of list of "h re present an inten	nal vent IOS Itled lace ucir	ting H s". ng ese n al

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Appearance

Physical state Colour : liquid

: pale yellow

Odour

: Conforms to Standard

#### Safety data

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Product METH IONONE BETA COEUR BHT Print Date 02/17/2011 Page 7 (11) Flash point : 201.20 °F (94.00 °C) Vapour pressure : .02 hPa (0.02 mmHg) Note: Calculated Relative density (20 °C) : 0.9300 - 0.9380 SECTION 10. STABILITY AND REACTIVITY Chemical stability : Remarks: Presents no significant reactivity hazard, by itself or in contact with water. Avoid contact with strong acids, alkali or oxidizing agents. : Note: Carbon monoxide and unidentified organic compounds Hazardous decomposition products may be formed during combustion. SECTION 11. TOXICOLOGICAL INFORMATION Acute oral toxicity Acute toxicity estimate : Dose: 8,460.24 mg/kg Method: Calculation method Acute oral toxicity (Component) Component: 127-43-5 : LD50 rat Dose: 5,000 mg/kg Remarks: Other Component: 7779-30-8 LD50 rat

Dose: > 5,000 mg/kg Remarks: RIFM

Component: 127-51-5 LD50 rat Dose: > 5,000 mg/kg

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Remarks: RIFM

Acute dermal toxicity (Component)	: Component: 7779-30-8 LD50 rabbit Dose: > 5,000 mg/kg
	Component: 127-51-5 LD50 rabbit Dose: > 5,000 mg/kg
Skin irritation (Component)	: Component: 7779-30-8 rabbit Result: Skin irritation Exposure time: 24 h
	Component: 127-51-5 human Result: No skin irritation Method: closed patch test Exposure time: 24 h Test substance:2.0% rabbit Result: Moderate skin irritation
Eye irritation(Component)	: Component: 127-51-5 rabbit Result: Severe eye irritation
Sensitisation (Component)	<ul> <li>Component: 7779-30-8 maximisation study human Result: Did not cause sensitization on laboratory animals. Test substance: 10% in petrolatum</li> </ul>
	Component: 127-51-5 maximisation study human Result: Did not cause sensitization on laboratory animals. Test substance: 10% in petrolatum guinea pig

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Result: Causes no sensitization

Repeated dose toxicity(Component)

Component: 7779-30-8 :

Component: 127-51-5

### SECTION 12. ECOLOGICAL INFORMATION

Component:

127-51-5

Toxicity to fish: Gamma Meth Ionone (Meth LC50 Species: Oncorhynchus mykiss (rainbow trout) Dose: 10.9 mg/l IsoAlpha) Exposure time: 96 h Supplier Toxicity to fish: LC100 Species: Oncorhynchus mykiss (rainbow trout) Dose: 15.3 mg/l Exposure time: 96 h Supplier Toxicity to daphnia and other aquatic invertebrates .: EC50 Species: Daphnia magna (Water flea) Dose: 9 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 Supplier Toxicity to algae: EC50 Species: Desmodesmus subspicatus (green algae) Dose: > 100 mg/l Exposure time: 72 h Supplier

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Additional ecological information:

Avoid contamination of soil, ground and surface water.

#### 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. (BETA METHYL IONONE, ALPHA METHYL IONONE)
	Class	:	9
	Packing group ICAO-Labels		III 9
	ICAO-Labeis	•	9
IMDG	UN-Number Description of the goods	-	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BETA METHYL IONONE, ALPHA METHYL IONONE)
	Class	:	9
	Packing group	-	
	IMDG-Labels		9
	EmSNumber 1	-	F-A
	EmSNumber 2	:	S-F
	Marine pollutant	:	yes (BETA METHYL IONONE, ALPHA METHYL

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### SECTION 15. REGULATORY INFORMATION

OSHA Hazards SARA 311/312 Hazards	<ul><li>Moderate skin irritant, Moderate eye irritant</li><li>Acute Health Hazard</li></ul>
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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