



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product ORIVONE

Print Date 04/29/2022

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ORIVONE  
Cust. Material : 00158474  
SDS Number : R00000110507  
Product Use Description : Fragrance Ingredient

Company : IFF Inc.  
600 Highway 36  
Hazlet NJ 07730

Telephone : (732) 264-4500  
Telefax : (732) 335-2551  
Emergency telephone : +1 800 424 9300

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS-Classification

Skin irritation, Category 2  
Eye irritation, Category 2B

#### GHS-Labeling

Symbol(s) : 

Signal Word : Warning

Hazard Statements : H315 + H320: Causes skin and eye irritation.

Precautionary Statements : P280: Wear protective gloves.  
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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### Carcinogenicity:

No ingredient 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 ingredient 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 ingredients

Component	CAS-No.
Cyclohexanone, 4-(1,1-dimethylpropyl)-	16587-71-6
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.

#### Notes to physician

- Risks : Causes skin and eye irritation.

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### SECTION 5. FIRE-FIGHTING MEASURES

#### Flammable properties

Flash point : > 201 °F (> 94 °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 for fire-fighters : 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

Handling : Avoid excessive inhalation of concentrated vapors. Follow good

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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 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**

#### **Ingredients 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.

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Skin and body protection : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

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 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

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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. 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 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 : liquid  
Appearance : CLEAR LIQUID  
Color : colorless  
  
Odor : conforms to standard

#### Safety data

Flash point :  $> 201\text{ }^{\circ}\text{F}$  ( $> 94\text{ }^{\circ}\text{C}$ )  
  
Vapor pressure : .04 hPa (0.04 hPa)  
Note: Calculated  
  
Relative density (20  $^{\circ}\text{C}$ ) : 0.9190 - 0.9270  
  
Partition coefficient: n-octanol/water : log Pow: 3.400

### SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid : Remarks: Direct sources of heat.

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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.

### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Acute toxicity estimate  
Dose: 4,705 mg/kg  
Method: Calculation method

Acute oral toxicity (Component) : Component: 16587-71-6  
LD50 Rat  
Dose: 4,700 mg/kg  
Remarks: RIFM

Acute dermal toxicity : Acute toxicity estimate  
Dose: 4,705 mg/kg  
Method: Calculation method

Acute dermal toxicity (Component) : Component: 16587-71-6  
LD50 Rabbit  
Dose: 4,700 mg/kg

Acute inhalation toxicity (Component) : Component: 16587-71-6  
LC50 Not tested on animals  
Exposure time: 4 h  
Dose: 12200 ppm  
Method: Calculation method  
Test substance: No data available  
Remarks: REACH data

Skin irritation (Component) : Component: 16587-71-6  
Classification: Irritating to skin.  
Result: Skin irritation  
Method: OECD Test Guideline 439

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Exposure time: 42 h  
Remarks: REACH data

Eye irritation(Component) : Component: 16587-71-6  
Classification: Eye irritation  
Result: Eye irritation  
Method: OECD Test Guideline 438  
Remarks: REACH data

Sensitization (Component) : Component: 16587-71-6  
maximisation study human  
Result: Did not cause sensitization on laboratory animals.  
Test substance: 8.0% in petrolatum  
Local lymph node assay (LLNA)  
Result: Does not cause skin sensitization.  
Method: Read across  
Remarks: REACH data

Repeated dose toxicity(Component) : Component: 16587-71-6

### **SECTION 12. ECOLOGICAL INFORMATION**

### **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 UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(4-tert-pentylcyclohexanone)  
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Class : 9  
Packing group : III  
ICAO-Labels : 9

**IMDG** UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S.  
(4-tert-pentylcyclohexanone)  
(4-tert-pentylcyclohexanone)  
Class : 9  
Packing group : III  
IMDG-Labels : 9  
EmSNumber 1 : F-A  
EmSNumber 2 : S-F  
Marine pollutant : yes  
(4-tert-pentylcyclohexanone) (4-tert-pentylcyclohexanone)

Other information : Shipment by ground under DOT is non-regulated;  
however it may be shipped per the applicable  
hazard classification to facilitate multi-modal  
transport involving ICAO (IATA) or IMO.

### SECTION 15. REGULATORY INFORMATION

**SARA 311/312 Hazards** : Skin corrosion or irritation  
Serious eye damage or eye irritation

**Reportable Quantity** :

**HMIS Classification** : Health Hazard: 1  
Chronic Health Hazard: /  
Flammability: 1  
Physical and chemical hazards: 0

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### ***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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