



SAFETY DATA SHEET

INTERNATIONAL FLAVORS & FRAGRANCES

Product FLORALOZONE

Print Date 05/02/2022

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : FLORALOZONE
Cust. Material : 00062979
SDS Number : R00000221784
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
Skin sensitization, Category 1

GHS-Labeling

Symbol(s)



Signal Word

: Warning

Hazard Statements

: H315: Causes skin irritation.
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 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.
Benzenepropanal, 4-ethyl-a,a-dimethyl-, Benzenepropanal, 2-ethyl-a,a-dimethyl-	67634-15-5, 67634-14-4

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 irritation.
May cause an allergic skin reaction.

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SECTION 5. FIRE-FIGHTING MEASURES

Flammable properties

Flash point : 212 °F (100 °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 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.

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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.

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.

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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 Number 2004-110]. In August 2004, the United States Flavor and Extract Manufacturers Association (FEMA) issued a report entitled "Respiratory Safety in

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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 : 212 °F (100 °C)

Vapor pressure : .01 hPa (0.01 hPa)
Note: Calculated

Relative density (20 °C) : 0.9510 - 0.9580

Partition coefficient: n-octanol/water : log Pow: 3.600

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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oxidizing agents.

Hazardous decomposition products : Note: Carbon monoxide and unidentified organic compounds may be formed during combustion.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity (Component) : Component: 67634-15-5
LD50 Rat
Dose: > 5,000 mg/kg
Method: OECD Test Guideline 401
Remarks: RIFM

Acute dermal toxicity (Component) : Component: 67634-15-5
LD50 Rabbit
Dose: > 5,000 mg/kg
Method: OECD Test Guideline 402

Skin irritation : Result: irritating
Method: OECD 439

Skin irritation (Component) : Component: 67634-15-5
reconstructed human epidermis (RhE)
Classification: Causes skin irritation.
Result: irritating
Method: OECD Test Guideline 439
Exposure time: 0.25 h
Remarks: REACH data

Eye irritation : Result: No eye irritation
Method: OECD Test Guideline 438

Eye irritation(Component) : Component: 67634-15-5
Chicken eye
Result: No eye irritation
Method: OECD Test Guideline 438
Remarks: REACH data

Sensitization : Result: May cause sensitization by skin contact.

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Remarks: Expert judgment

Sensitization (Component) : Component: 67634-15-5
LLNA Mouse
Result: The product is a skin sensitizer, sub-category 1B.
Method: OECD 429
Remarks: REACH data
Read across

Repeated dose toxicity(Component) : Component: 67634-15-5
OralRat
NOEL: 300 mg/kg
Method: OECD Test Guideline 422
Remarks: REACH data

SECTION 12. ECOLOGICAL INFORMATION

Component:
67634-15-5

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Toxicity to fish:
semi-static test LC50
Species: Oncorhynchus mykiss (rainbow trout)
Dose: > 0.70 mg/l
Exposure time: 96 h
Analytical monitoring: yes
Method: OECD Test Guideline 203
REACH data

Toxicity to daphnia and other aquatic invertebrates:
semi-static test EC50
Species: Daphnia magna (Water flea)
Dose: 0.87 mg/l
Exposure time: 48 h
Analytical monitoring: yes
Method: OECD Test Guideline 202
REACH data

Toxicity to algae:
static test NOEC
Species: Pseudokirchneriella subcapitata (green algae)
Dose: 1.2 mg/l
Exposure time: 72 h
Analytical monitoring: yes

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Method: OECD Test Guideline 201

REACH data

Toxicity to algae:

static testErC50

Species: Pseudokirchneriella subcapitata (green algae)

Dose: > 1.2 mg/l

Exposure time: 72 h

Analytical monitoring: yes

Method: OECD Test Guideline 201

REACH data

<03EHS L TEXT(CED-H12.00200010)>

<03EHS L TEXT(CED-H11.00000120)>:

NOEC

Species: Daphnia magna (Water flea)

Concentration: .30 mg/l

Exposure time: 21 d

Analytical monitoring: yes

Method: OECD 211

Remarks:

REACH data

Based on data from similar materials

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.
(3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde)
(3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde)
Class : 9

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	Packing group	: III
	ICAO-Labels	: 9
IMDG	UN number	: 3082
	Description of the goods	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde) (3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde)
	Class	: 9
	Packing group	: III
	IMDG-Labels	: 9
	EmSNumber 1	: F-A
	EmSNumber 2	: S-F
	Marine pollutant	: yes (3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde) (3-(o-ethylphenyl)-2,2-dimethylpropionaldehyde)

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Respiratory or skin sensitization
Skin corrosion or irritation

Reportable Quantity :

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

SECTION 16. OTHER INFORMATION

Further information

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