



# SAFETY DATA SHEET

## INTERNATIONAL FLAVORS & FRAGRANCES

Product GERANYL ACETATE A

Print Date 05/12/2022

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### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : GERANYL ACETATE A  
Cust. Material : 00071043  
SDS Number : R00000222304  
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.
2,6-Octadien-1-ol, 3,7-dimethyl-, 1-acetate, (2E)-	105-87-3
2,6-Octadien-1-ol, 3,7-dimethyl-, 1-acetate, (2Z)-	141-12-8

### 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 : 226.40 °F (108.00 °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 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 to pale yellow  
  
Odor : conforms to standard

#### Safety data

Flash point : 226.40 °F (108.00 °C)  
  
Vapor pressure : .03 hPa (0.03 hPa)  
Note: Calculated  
  
Relative density (20 °C) : 0.9100 - 0.9140

### 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.

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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: > 5,000 mg/kg  
Method: Calculation method

Acute oral toxicity (Component) : Component: 105-87-3  
LD50 Rat  
Dose: 6,330 mg/kg  
Method: No information available.  
Remarks: REACH data

Component: 141-12-8  
LD50 Rat  
Dose: > 2,000 mg/kg  
Method: OECD 423  
Remarks: REACH data

Component: 150-84-5  
LD50 Rat  
Dose: 6,800 mg/kg  
Remarks: RIFM

Component: 106-24-1  
LD50 Rat  
Dose: 3,600 mg/kg  
Method: No information available.  
Remarks: REACH data

Acute dermal toxicity : Acute toxicity estimate  
Dose: > 5,000 mg/kg  
Method: Calculation method

Acute dermal toxicity (Component) : Component: 141-12-8  
LD50 Rabbit  
Dose: > 5,000 mg/kg

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Component: 150-84-5

LD50 Rabbit

Dose: > 2,000 mg/kg

Component: 106-24-1

LD50 Rabbit

Dose: > 5,000 mg/kg

Method: No information available.

Remarks: REACH data

Skin irritation (Component)

: Component: 105-87-3

Rabbit

Classification: Causes skin irritation.

Result: Skin irritation

Method: OECD Test Guideline 404

Exposure time: 4 h

Remarks: REACH data

Component: 141-12-8

human

Result: No skin irritation

Method: closed patch test

Exposure time: 48 h

Rabbit

Result: No skin irritation

Exposure time: 24 h

Component: 150-84-5

human

Result: Mild skin irritation

Method: closed patch test

Exposure time: 48 h

Rabbit

Result: irritating

Component: 106-24-1

Rabbit

Classification: Causes skin irritation.

Result: irritating

Method: OECD Test Guideline 404

Exposure time: 4 h

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Remarks: REACH data

Eye irritation(Component) : Component: 105-87-3  
Rabbit  
Classification: No eye irritation  
Result: No eye irritation  
Method: OECD Test Guideline 405  
Exposure time: 1 h  
Remarks: REACH data

Component: 106-24-1  
Rabbit  
Classification: Causes serious eye damage.  
Result: Severe eye irritation  
Method: OECD Test Guideline 405  
Exposure time: 1 h  
Remarks: REACH data

Sensitization (Component) : Component: 105-87-3  
Local lymph node assay (LLNA) Mouse  
Result: positive  
Method: OECD Test Guideline 429  
Remarks: REACH data

Component: 141-12-8  
maximisation study human  
Result: Skin Sensitizer  
Test substance: 10% in petrolatum

Component: 150-84-5  
maximisation study human  
Result: Did not cause sensitization on laboratory animals.  
Test substance: 4.0% in petrolatum

Component: 106-24-1  
Local lymph node assay (LLNA) Mouse  
Classification: May cause sensitization by skin contact.  
Result: positive  
Test substance: 6.0% in petrolatum

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Repeated dose toxicity(Component) : Component: 105-87-3  
OralRat  
Method: No information available.  
Remarks: REACH data

Component: 141-12-8  
OralRat

Component: 150-84-5

Component: 106-24-1  
OralRat  
NOEL: > 550 mg/kg  
Remarks: REACH data  
DermalRat  
NOEL: 300 mg/kg  
Method: OECD Test Guideline 421  
Remarks: REACH data

Carcinogenicity (Component) : Component: 105-87-3  
Oral Rat  
Method: carcinogenicity study  
  
Component: 106-24-1  
Oral Rat  
Method: OECD Test Guideline 451

### SECTION 12. ECOLOGICAL INFORMATION

Component:  
105-87-3

Geranyl acetate

Toxicity to fish:  
static test LC50  
Species: Leuciscus idus (Golden orfe)  
Dose: 68.12 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:  
static test EC50  
Species: Daphnia magna (Water flea)

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Dose: 14.1 mg/l  
Exposure time: 48 h  
Analytical monitoring: yes  
Method: Regulation (EC) No. 440/2008, Annex, C.2

Toxicity to algae:

static testErC50

Species: Desmodesmus subspicatus (green algae)

Dose: 3.72 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

REACH data

Toxicity to algae:

static testNOEC

Species: Desmodesmus subspicatus (green algae)

Dose: 0.585 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

REACH data

141-12-8

NERYL  
ACETATE

Toxicity to fish:

Species: Fish

Dose: 6 mg/l

Exposure time: 96 h

REACH data

Toxicity to daphnia and other aquatic invertebrates:

Dose: 4.9 mg/l

Exposure time: 72 h

REACH data

Toxicity to algae:

Species: ALGAE

Dose: 4.9 mg/l

Exposure time: 72 h

REACH data

106-24-1

Geraniol

Toxicity to fish:

static test LC50

Species: Danio rerio (zebra fish)

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Dose: 22 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
REACH data  
Toxicity to fish:  
static test NOEC  
Species: Danio rerio (zebra fish)  
Dose: 10 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
REACH data  
Toxicity to fish:  
static test LC0  
Species: Danio rerio (zebra fish)  
Dose: 10 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
REACH data  
Toxicity to fish:  
static test LC100  
Species: Danio rerio (zebra fish)  
Dose: 46.4 mg/l  
Exposure time: 96 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 203  
REACH data  
Toxicity to daphnia and other aquatic invertebrates:  
static test EC50  
Species: Daphnia magna (Water flea)  
Dose: 10.8 mg/l  
Exposure time: 48 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
REACH data  
Toxicity to daphnia and other aquatic invertebrates:  
static test EC0  
Species: Daphnia magna (Water flea)  
Dose: 4 mg/l  
Exposure time: 48 h

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Analytical monitoring: yes  
Method: OECD Test Guideline 202  
REACH data  
Toxicity to daphnia and other aquatic invertebrates:  
static test EC100  
Species: Daphnia magna (Water flea)  
Dose: 41.9 mg/l  
Exposure time: 48 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 202  
REACH data  
Toxicity to algae:  
static test EC50  
Species: Scenedesmus capricornutum (fresh water algae)  
Dose: 13.10 mg/l  
Exposure time: 72 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
REACH data  
Toxicity to algae:  
static test EC10  
Species: Scenedesmus capricornutum (fresh water algae)  
Dose: 3.77 mg/l  
Exposure time: 72 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
REACH data  
Toxicity to algae:  
static test NOEC  
Species: Scenedesmus capricornutum (fresh water algae)  
Dose: 1 mg/l  
Exposure time: 72 h  
Analytical monitoring: yes  
Method: OECD Test Guideline 201  
REACH data

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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

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

Reportable Quantity :

HMIS Classification : Health Hazard: 2  
Chronic Health Hazard: /  
Flammability: 1  
Physical and chemical hazards: 0

### SECTION 16. OTHER INFORMATION

Further information

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