

Product

NERYL ACETATE

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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

NERYL ACETATE

Cust. Material

00142755

SDS Number

R00000002762

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

CAS-No.

16409-44-2

Hazardous ingredients

CAS-No.	
141-12-8	
105-87-3	

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

210.00 °F (98.89 °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,

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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.

Skin and body protection

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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

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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 >= 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

: 210.00 °F (98.89 °C)

Vapor pressure

: .03 hPa (0.03 hPa)

Note: Calculated

Relative density (20 °C)

: 0.9080 - 0.9160

Partition coefficient: n-octanol/water

: log Pow: 3.670

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

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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: 4,167 mg/kg

Method: Calculation method

Acute oral toxicity (Component)

Component: 141-12-8

LD50 Rat

Dose: > 2,000 mg/kg Method: OECD 423 Remarks: REACH data

Component: 105-87-3

LD50 Rat

Dose: 6,330 mg/kg

Method: No information available.

Remarks: REACH data

Component: 106-24-1

LD50 Rat

Dose: 3,600 mg/kg

Method: No information available.

Remarks: REACH data

Acute dermal toxicity

(Component)

Component: 141-12-8

LD50 Rabbit

Dose: > 5,000 mg/kg

Component: 106-24-1

LD50 Rabbit

Dose: > 5,000 mg/kg

Method: No information available.

Remarks: REACH data

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Skin irritation (Component)

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: 105-87-3

Rabbit

Classification: Causes skin irritation.

Result: Skin irritation

Method: OECD Test Guideline 404

Exposure time: 4 h Remarks: REACH data

Component: 106-24-1

Rabbit

Classification: Causes skin irritation.

Result: irritating

Method: OECD Test Guideline 404

Exposure time: 4 h 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

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Sensitization (Component)

Component: 141-12-8 maximisation study human Result: Skin Sensitizer

Test substance: 10% in petrolatum

Component: 105-87-3

Local lymph node assay (LLNA) Mouse

Result: positive

Method: OECD Test Guideline 429

Remarks: REACH data

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

Repeated dose

toxicity(Component)

Component: 141-12-8

OralRat

Component: 105-87-3

OralRat

Method: No information available.

Remarks: REACH data

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

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Method: OECD Test Guideline 451

SECTION 12. ECOLOGICAL INFORMATION

Component:

141-12-8

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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

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)

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)

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Dose: 3.72 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

REACH data

<u>Toxicity to algae:</u>
static testNOEC

Species: Desmodesmus subspicatus (green algae)

Dose: 0.585 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

REACH data

106-24-1

Geraniol

Toxicity to fish: static test LC50

Species: Danio rerio (zebra fish)

Dose: 22 mg/l Exposure time: 96 h Analytical monitoring: yes

Method: OECD Test Guideline 203

REACH data

<u>Toxicity to fish:</u>
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

<u>Toxicity to fish:</u>
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

<u>Toxicity to fish:</u>
static test LC100

Species: Danio rerio (zebra fish)

Dose: 46.4 mg/l

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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 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 testEC50

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 testEC10

Species: Scenedesmus capricornutum (fresh water

algae)

Dose: 3.77 mg/l

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Exposure time: 72 h

Analytical monitoring: yes

Method: OECD Test Guideline 201

REACH data

<u>Toxicity to algae:</u>
static testNOEC

Species: Scenedesmus capricornutum (fresh water

algae)

Dose: 1 mg/l Exposure time: 72 h Analytical monitoring: yes

Method: OECD Test Guideline 201

REACH data

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: /

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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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