# iff

# SAFETY DATA SHEET INTERNATIONAL FLAVORS & FRAGRANCES

**Product** 

NEROL 900

**Print Date** 

04/07/2020

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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

NEROL 900

Cust. Material

00142479

SDS Number

R00000002509

Product Use Description

Fragrance Ingredient

Company

IFF Inc.

600 Highway 36 Hazlet NJ 07730

Telephone

(732) 264-4500

Telefax

(732) 335-2551

Emergency telephone number

+1 800 424 9300

## SECTION 2 HAZARDS IDENTIFICATION

#### GHS-Classification

Skin irritation, Category 2 Serious eye damage, Category 1 Skin sensitisation, Category 1 Skin sensitisation, Sub-category 1B

#### **GHS-Labelling**

Symbol(s)

正型



Signal word

: Danger

Hazard statements

: H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

Precautionary statements

: P280: Wear protective gloves/ eye protection/ face protection. P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with

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water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

#### Carcinogenicity:

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 on OSHA's list of regulated carcinogens.

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.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

CAS-No.
106-25-2

### 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.

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### SECTION 5. FIREFIGHTING MEASURES

#### Flammable properties

Flash point

210.20 °F (99.00 °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

firefighters

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. Contaminated clothing and shoes should be thoroughly cleaned

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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

### 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

#### 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.

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.

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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 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.

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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 Colour : CLEAR LIQUID

: colorless to pale yellow

Odour

: conforms to standard

Safety data

Flash point

: 210.20 °F (99.00 °C)

Vapour pressure

: .08 hPa (0.08 hPa) Note: Calculated

Relative density (20 °C)

: 0.8740 - 0.8790

Partition coefficient: n-octanol/water

: log Pow: 2.750

## 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.

Hazardous decomposition products

: Note: Carbon monoxide and unidentified organic compounds may

be formed during combustion.

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### SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

: Acute toxicity estimate

Dose: 4,166 mg/kg

Method: Calculation method

Acute oral toxicity (Component)

Component: 106-25-2

LD50 Rat

Dose: 4,500 mg/kg Remarks: RIFM

Component: 106-24-1

LD50 Rat

Dose: 3,600 mg/kg

Method: No information available.

Remarks: REACH data

Component: 106-22-9

LD50 Rat

Dose: 3,450 mg/kg Remarks: RIFM

Acute dermal toxicity

: Acute toxicity estimate

Dose: > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity

(Component)

: Component: 106-25-2

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

Component: 106-22-9

LD50 Rabbit Dose: 2,650 mg/kg

Skin irritation (Component)

Component: 106-25-2

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human

Result: No skin irritation Method: closed patch test Exposure time: 48 h

Rabbit

Result: Skin irritation Exposure time: 24 h

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: 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

Sensitisation (Component)

: Component: 106-25-2

maximisation study human

Result: Did not cause sensitisation on laboratory animals.

Test substance: 4.0% in petrolatum

Component: 106-24-1

Local lymph node assay (LLNA) Mouse

Classification: May cause sensitisation by skin contact.

Result: positive

Test substance: 6.0% in petrolatum

Repeated dose

toxicity(Component)

Component: 106-25-2

Component: 106-24-1

## SECTION 12. ECOLOGICAL INFORMATION

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Component:

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 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

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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:

Dose: 41.9 mg/l Exposure time: 48 h Analytical monitoring: yes

Method: OECD Test Guideline 202

REACH data

<u>Toxicity to algae:</u>
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

<u>Toxicity to algae:</u>
static testEC10

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

<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

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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

: Acute Health Hazard

Reportable Quantity

:

**HMIS Classification** 

: Health hazard: 1 Flammability: 1

Physical and chemical hazards: 0

## SECTION 16. OTHER INFORMATION

Further information

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