

Product **HERBALIMETM**

Print Date 06/10/2020 Page 1 (15)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name HERBALIME™ IFF Code 00011391 Cust. Material 00011391 SDS Number R00000108400 Product Use Description Fragrance Ingredient

Company IFF CHEMICAL HOLDINGS, INC.

> 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254

Telephone (904) 783-2180 Telefax (904) 695-4616 Emergency telephone number +1 800 424 9300

SECTION 2 HAZARDS IDENTIFICATION

GHS-Classification

Flammable liquids, Category 3 Acute toxicity, Category 5 Aspiration hazard, Category 1 Eye irritation, Category 2 Skin sensitisation, Sub-category 1B Skin irritation, Category 2

GHS-Labelling

Symbol(s)





Signal word : Danger

Version

: 08/14/2018 **Revision Date**

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 2 (15)

Hazard statements : H226: Flammable liquid and vapour.

H304: May be fatal if swallowed and enters airways.

H315: Causes skin irritation.

H317: May cause an allergic skin reaction. H319: Causes serious eye irritation.

Precautionary statements : P210: Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

P240: Ground/bond container and receiving equipment.

P280: Wear protective gloves.

P301 + P310: IF SWALLOWED: Immediately call a POISON

CENTER or doctor/ physician.

P302 + P352: IF ON SKIN: Wash with plenty of soap and water.

P331: Do NOT induce vomiting.

P403 + P235: Store in a well-ventilated place. Keep cool.

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

CAS-No. : 68956-56-9

Hazardous components

Component	CAS-No.
Hydrocarbons, terpene processing by-products	68956-56-9

Version : '

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 3 (15)

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.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

Flash point : 120.00 °F (48.89 °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

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.

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 4 (15)

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 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.

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 5 (15)

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

Components	Listed by	Value type	Exposure limit(s)
Cyclohexene, 1- methyl-4-(1- methylethenyl)-, Cyclohexene, 1- methyl-4-(1- methylethenyl)-, (4R)-, Cyclohexene, 1-methyl-4-(1- methylethenyl)-, (4S)-	USA. Workplace Environmental Exposure Levels (WEEL)	8-hr TWA	30 ppm
3-Cyclohexene-1- methanol, .alpha.,.alpha.,4- trimethyl-	USA. ACGIH Threshold Limit Values (TLV)	8-hour, time-weighted average	20 ppm

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.

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 6 (15)

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.

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.

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 7 (15)

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.

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
Colour : pale yellow to gold

Odour : conforms to standard

Safety data

Flash point : 120.00 °F (48.89 °C)

Vapour pressure : .13 hPa (0.13 hPa)

Note: Calculated

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 8 (15)

Relative density (20 °C) : 0.8720 - 0.8860

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.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : Acute toxicity estimate

Dose: > 5,000 mg/kg

Method: Calculation method

Acute oral toxicity (Component) : Component: 586-62-9

LD50 Rat

Dose: 3,840 mg/kg Remarks: RIFM

Component: 138-86-3

LD50 Rat

Dose: 5,300 mg/kg

Component: 98-55-5

LD50 Rat

Dose: 4,300 mg/kg

Method: OECD Test Guideline 401

Remarks: RIFM

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 9 (15)

Acute dermal toxicity : Acute toxicity estimate

Dose: > 5,000 mg/kg

Method: Calculation method

Acute dermal toxicity

(Component)

Component: 586-62-9

LD50 Rabbit

Dose: > 5,000 mg/kg

Component: 138-86-3

LD50 Rabbit

Dose: > 5,000 mg/kg

Component: 98-55-5

LD50 Rabbit

Dose: > 3,000 mg/kg

Method: OECD Test Guideline 402

Skin irritation (Component) : Component: 586-62-9

human

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

Rabbit

Result: No skin irritation

Exposure time: 24 h

Component: 138-86-3

Rabbit

Result: Skin irritation Exposure time: 24 h Test substance:(undiluted)

human

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

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 10 (15)

Component: 98-55-5

Rabbit

Result: Skin irritation

Method: OECD Test Guideline 404

Exposure time: 24 h

Eye irritation(Component) : Component: 98-55-5

Rabbit

Result: Eye irritation

Method: OECD Test Guideline 405

Exposure time: 72 h

Sensitisation (Component) : Component: 586-62-9

maximisation study human

Result: Did not cause sensitisation on laboratory animals.

Test substance: 20% in petrolatum

Component: 138-86-3

LLNA Mouse

Result: Causes sensitisation.

Test substance: 22% in ethanol/DEP (75:25)

maximisation study human Result: causes no sensitization Test substance: 20% in petrolatum

Component: 98-55-5

LLNA Rat

Result: causes no sensitization Method: OECD Test Guideline 429

Repeated dose

toxicity(Component)

: Component: 586-62-9

Component: 138-86-3

Component: 98-55-5

OralRat

NOEL: > 314 mg/kg

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 11 (15)

Method: OECD Test Guideline 408

Remarks: No adverse effect has been observed in chronic toxicity

tests.

Carcinogenicity (Component) : Component: 98-55-5

SECTION 12. ECOLOGICAL INFORMATION

Acute Fish toxicity : LC50

Species: Danio rerio (zebra fish) Concentration: 5.07 mg/l Exposure time: 96 h

Component:

586-62-9 Terpinolene <u>Toxicity to fish:</u>

LC50 Species:

Dose: 1.21 mg/l Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 Species:

Dose: 1.38 mg/l Exposure time: 48 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 Species:

Dose: 2.55 mg/l Exposure time: 48 h

138-86-3 Dipentene <u>Toxicity to fish:</u>

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 12 (15)

LC50 Species:

Dose: 0.702 mg/l Exposure time: 96 h

98-55-5 alpha-Terpineol <u>Toxicity to fish:</u>

semi-static test LC50

Species: Brachydanio rerio (zebrafish)

Dose: 70 mg/l Exposure time: 96 h

Method: OECD Test Guideline 203

Information taken from reference works and the

literature.

Toxicity to daphnia and other aquatic invertebrates:

static test EC50

Species: Daphnia magna (Water flea)

Dose: 73 mg/l Exposure time: 48 h

Method: OECD Test Guideline 202

Information taken from reference works and the

literature.

<u>Toxicity to algae:</u> static testEC50

Species: Pseudokirchneriella subcapitata (aglae)

Dose: 68 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

Information taken from reference works and the

literature.

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

Species: Pseudokirchneriella subcapitata (aglae)

Dose: 3.9 mg/l Exposure time: 72 h

Method: OECD Test Guideline 201

Information taken from reference works and the

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 13 (15)

literature.

<u>Toxicity to bacteria:</u> static test NOEC Species: activated sludge

Dose: 25.7 mg/l

Method: OECD Test Guideline 310

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 Proper shipping name : Combustible liquid, n.o.s.

(DIPENTENE)

Labels : NONE
UN number : 1993
Class : CBL
Packing group : III
Emergency Response : 128

Guidebook Number

DOT NON-BULK Not dangerous goods

IATA UN number : 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.

(DIPENTENE)

Class : 3 Packing group : III ICAO-Labels : 3

Version : '

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 14 (15)

IMDG UN number : 1993

Description of the goods : FLAMMABLE LIQUID, N.O.S.

(DIPENTENE)

Class : 3
Packing group : III
IMDG-Labels : 3
EmSNumber 1 : F-E
EmSNumber 2 : S-E
Marine pollutant : yes

(TERPINOLENE)

SECTION 15. REGULATORY INFORMATION

SARA 311/312 Hazards : Fire Hazard

Acute Health Hazard

Reportable Quantity :

HMIS Classification : Health hazard: 1

Flammability: 2

Physical and chemical hazards: 0

SECTION 16. OTHER INFORMATION

Further information

Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254



Product HERBALIMETM

Print Date 06/10/2020 Page 15 (15)

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Version : 7

Revision Date : 08/14/2018

IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254 IFF CHEMICAL HOLDINGS, INC. 2051 NORTH LANE AVENUE JACKSONVILLE FL 32254