

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**1.1 Product identifier**

|               |                             |
|---------------|-----------------------------|
| Product Name  | DFT-842-BL-NV-NA-HC         |
| Chemical name | Natural Flavor              |
| CAS No.       | 5989-27-5, 87-44-5, 78-70-6 |
| Synonyms      | Mixture                     |

**1.2 Recommended use and restrictions on use**

Raw material

**1.3 Details of the supplier of the safety data sheet**

|                         |                                                  |
|-------------------------|--------------------------------------------------|
| Manufacturer            |                                                  |
| Company Identification  | Duty Free Terpenes                               |
| Address of Manufacturer | 174 Lawrence Dr. Suite J.<br>Livermore, CA 94551 |
| Telephone:              | 1-925-876-0024                                   |
| Supplier                |                                                  |
| Company Identification  | Not known.                                       |
| Address of Supplier     | Not known.                                       |
| Telephone:              | Not known.                                       |

**1.4 Emergency telephone number**

|                     |                                        |
|---------------------|----------------------------------------|
| Emergency Phone No. | 1-925-876-0024 (M-F 8a.m.to 5p.m.) PST |
|---------------------|----------------------------------------|

## SECTION 2: HAZARDS IDENTIFICATION

**2.1 Classification of the substance or mixture**

|                                                      |                                                                                                                                                                                                                                                           |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCORDING TO HAZARDOUS<br>PRODUCTS REGULATIONS (HPR) | Flam. Liq. 3 :Flammable liquid and vapor.<br>Asp. Tox. 1 :May be fatal if swallowed and enters airways.<br>Skin Irrit. 2 :Causes skin irritation.<br>Skin Sens. 1B :May cause an allergic skin reaction.<br>Eye Irrit. 2A :Causes serious eye irritation. |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**2.2 Label elements**

|              |                   |
|--------------|-------------------|
| Product Name | Natural Flavoring |
|--------------|-------------------|

Hazard Pictogram(s)





# Safety Data Sheet

ACCORDING TO HAZARDOUS PRODUCTS REGULATIONS (HPR)

SDS Version: 1.0 Date of Compilation: 01-01-2026

Signal Word(s)

Danger

Hazard Statement(s)

Flammable liquid and vapor.  
May be fatal if swallowed and enters airways.  
Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.

Precautionary Statement(s)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist/vapors/spray. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves, eye protection. IF SWALLOWED: Immediately call a POISON CENTER/doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Do NOT induce vomiting. If skin irritation occurs: Get medical advice, or attention. If eye irritation persists: Get medical advice, or attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use water spray, dry powder or carbon dioxide to extinguish. Collect spillage. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of this material and its container as hazardous waste.

## 2.3 Other hazards

May cause respiratory irritation.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

| COMPONENTS:     | (MIN.)<br>% | (MAX)<br>% | CAS #     |
|-----------------|-------------|------------|-----------|
| LIMONENE        | 6.4%        | 10.7%      | 5989-27-5 |
| β-CARYOPHYLLENE | 6.1%        | 10.1%      | 87-44-5   |
| LINALOOL        | 2.2%        | 3.6%       | 78-70-6   |
| α-HUMULENE      | 1.9%        | 3.1%       | 6753-98-6 |
| β-MYRCENE       | 1.7%        | 2.9%       | 123-35-3  |
| β-PINENE        | 1.3%        | 2.1%       | 127-91-3  |
|                 |             |            |           |
|                 |             |            |           |
|                 |             |            |           |



# Safety Data Sheet

ACCORDING TO HAZARDOUS PRODUCTS REGULATIONS (HPR)  
SDS Version: 1.0 Date of Compilation: 01-01-2026

## 3.2 Mixtures

Not applicable.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply artificial respiration only if patient is not breathing but do not use mouth to mouth resuscitation.                                                                                                                                                                                                                                                    |
| Skin Contact | Remove contaminated clothing immediately and drench affected skin with plenty of water, then wash with soap and water. Wash the contaminated area of body with soap and fresh water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see Medical Advice on this label). Rinse skin with water. Take off immediately all contaminated clothing and wash it before reuse. |
| Eye Contact  | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                                                                                                                                                                                                                                                                                                |
| Ingestion    | Unlikely route of exposure. Wash out mouth with water. If vomiting occurs turn patient on side. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.                                                                                                                                                                                                                                                       |

### 4.2 Most important symptoms and effects, both acute and delayed

May cause irritation. Allergic contact dermatitis.

### 4.3 Indication of any immediate medical attention and special treatment needed

There is no specific antidote. Treat symptomatically.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1 Extinguishing Media

|                                |                                                              |
|--------------------------------|--------------------------------------------------------------|
| Suitable Extinguishing Media   | Use water spray, dry powder or carbon dioxide to extinguish. |
| Unsuitable Extinguishing Media | Water jet spray                                              |

### 5.2 Special hazards arising from the substance or mixture

Flammable liquid and vapor. Combustion or thermal decomposition will evolve toxic and irritant vapors. Decomposition products may include carbon oxides.

### 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions. Keep container(s) exposed to fire cool, by spraying with water. Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved



# Safety Data Sheet

ACCORDING TO HAZARDOUS PRODUCTS REGULATIONS (HPR)

SDS Version: 1.0 Date of Compilation: 01-01-2026

explosion-proof equipment, and intrinsically safe electrical systems. Wear suitable protective clothing, gloves and eye/face protection. Remove all ignition sources. Wash contaminated clothing before reuse.

## 6.2 Environmental precautions

Avoid release to the environment. Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

## 6.3 Methods and material for containment and cleaning up

Collect spillage. Adsorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

## 6.4 Reference to other sections

See Also Section 8, 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Wash hands thoroughly after handling. Wear protective gloves/eye protection. Avoid breathing mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion proof electrical equipment. Use non-sparking tools. Take action to prevent static discharges. Ensure adequate ventilation. Keep in containers made of material similar to the original. Keep container tightly closed, in a cool, well ventilated place.

### 7.2 Conditions for safe storage, including any incompatibilities

Store locked up. Store in a well-ventilated place. Keep cool.

Storage temperature

Ambient.

Storage life

Stable under normal conditions.

Incompatible materials

Oxidizing agents. Alkalis.

### 7.3 Specific end use(s)

Not known.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### 8.1.1 Occupational Exposure Limits

Occupational Exposure Limits

Occupational exposure limit values (Workplace Exposure Limits) this information is not available.

## 8.2 Exposure controls

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards

None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|                                              |                    |
|----------------------------------------------|--------------------|
| Appearance                                   | Liquid. Clear.     |
|                                              | Color : Colourless |
| Odor                                         | Essential oil      |
| Odor Threshold                               | Not known.         |
| pH                                           | Not applicable.    |
| Melting Point/Freezing Point                 |                    |
| Initial boiling point and boiling range      | Not known.         |
| Flash Point                                  | 42 - 50 ° C        |
| Evaporation Rate                             | Not known.         |
| Flammability (solid, gas)                    | Not applicable.    |
| Upper/lower flammability or explosive limits | Not known.         |
| vapor pressure                               | Not known.         |
| vapor density                                | Not known.         |



# Safety Data Sheet

ACCORDING TO HAZARDOUS PRODUCTS REGULATIONS (HPR)  
SDS Version: 1.0 Date of Compilation: 01-01-2026

|                                        |                                                                                           |
|----------------------------------------|-------------------------------------------------------------------------------------------|
| Density (g/ml)                         | Not known.                                                                                |
| Relative density                       | 0.8 - 0.9 (water=1)                                                                       |
| Solubility(ies)                        | Solubility (Water) : Insoluble in water.<br>Solubility (Other) : Soluble in: Alcohols Oil |
| Partition coefficient: n-octanol/water | Not known.                                                                                |
| Auto-ignition temperature              | Not known.                                                                                |
| Decomposition Temperature (° C)        | Not known.                                                                                |
| Viscosity                              | Not known.                                                                                |
| Explosive properties                   | Not known.                                                                                |
| oxidizing properties                   | Not known.                                                                                |

## 9.2 Other information

None.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

None anticipated.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known if used for its intended purpose.

### 10.4 Conditions to avoid

Avoid contact with heat and ignition sources and oxidizers.

### 10.5 Incompatible materials

Oxidizing agents. Alkalis.

### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Acute toxicity - Ingestion     | Not classified.                                                                                                   |
| Acute toxicity - Skin Contact  | Not classified.                                                                                                   |
| Acute toxicity - Inhalation    | Not classified.                                                                                                   |
| Skin corrosion/irritation      | Causes skin irritation.                                                                                           |
| Serious eye damage/irritation  | Causes serious eye irritation.                                                                                    |
| Skin sensitization data        | May cause an allergic skin reaction.                                                                              |
| Respiratory sensitization data | Not classified.                                                                                                   |
| Germ cell mutagenicity         | Not classified.                                                                                                   |
| Carcinogenicity                | Not classified.                                                                                                   |
| Reproductive toxicity          | Not classified.                                                                                                   |
| Lactation                      | Not classified.                                                                                                   |
| STOT - single exposure         | Not classified. Contains containments that are known as causing respiratory irritation.                           |
| STOT - repeated exposure       | Not classified. Contains containments that are known as causing damage to Central Nervous Systems, Kidney, Liver. |
| Aspiration hazard              | May be fatal if swallowed and enters airways.                                                                     |

**11.2 Other information**

Not known.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Very toxic to aquatic life with long lasting effects.

Toxicity - Aquatic invertebrates

Not known.

Toxicity - Fish

Not known.

Toxicity - Algae

Not known.

Toxicity - Sediment Compartment

Not classified.

Toxicity - Terrestrial Compartment

Not classified.

**12.2 Persistence and degradability**

Not known.

**12.3 Bioaccumulative potential**

Not known.

**12.4 Mobility in soil**

Not known.

**12.5 Other adverse effects**

Not known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Dispose of this material and its container as hazardous waste. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse site.

**13.2 Additional Information**

Disposal should be in accordance with local, state or national legislation.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number**

UN No.

1169

**14.2 UN proper shipping name**

UN proper shipping name

EXTRACTS, AROMATIC, LIQUID

**14.3 Transport hazard class(es)**

TDG

TDG Class

3

**IMDG**

IMDG Class

3

# Safety Data Sheet

ACCORDING TO HAZARDOUS PRODUCTS REGULATIONS (HPR)  
SDS Version: 1.0 Date of Compilation: 01-01-2026

|                                                                      |                            |
|----------------------------------------------------------------------|----------------------------|
| Special Provisions                                                   | 601                        |
| Limited Quantities                                                   | 5 L                        |
| Excepted Quantities                                                  | E1                         |
| Mixed Packing Instructions for Packages                              | P001 IBC03 LP01 R001       |
| Special Packing Provisions for Packages                              |                            |
| Packing Instructions for Portable Tanks                              | T2                         |
| Special Provisions for Portable Tanks                                | TP1                        |
| IMDG EMS                                                             | F-E, S-D                   |
| Stowage and Handling                                                 | Category A                 |
| Segregation                                                          |                            |
| Marine Pollutant                                                     |                            |
| ICAO/IATA                                                            |                            |
| IATA Proper Shipping Name                                            | EXTRACTS, AROMATIC, LIQUID |
| Excepted Quantities                                                  | E1                         |
| Passenger and Cargo Aircraft Limited Quantities Packing Instructions | Y344                       |
| Passenger and Cargo Aircraft Limited                                 | 10L                        |
| Quantities Max net Qty                                               |                            |
| Passenger and Cargo Aircraft Packing Instructions                    | 355                        |
| Passenger and Cargo Aircraft Max net Qty                             | 60L                        |
| Cargo Aircraft Packing Instructions                                  | 366                        |
| Cargo Aircraft Max net Qty                                           | 220L                       |
| Special Provisions                                                   | A3                         |
| Emergency Response Guidebook (ERG) Code                              | 3L                         |
| Labels                                                               |                            |
| Labels                                                               | 3                          |



## 14.4 Packing group

Packing group III

## 14.5 Environmental hazards

Environmental hazards Classified as a Marine Pollutant.

## 14.6 Special precautions for user

Special precautions for user Not known.

## 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No information available

## SECTION 15: REGULATORY INFORMATION

This product has been classified in accordance with HPR and the SDS contains all the information required by HPR.

### 15.1 Canadian Regulations



# Safety Data Sheet

ACCORDING TO HAZARDOUS PRODUCTS REGULATIONS (HPR)  
SDS Version: 1.0 Date of Compilation: 01-01-2026

|                                                            |                |
|------------------------------------------------------------|----------------|
| Domestic Substances List (DSL)                             | Listed/ exempt |
| Export Control List                                        | Not listed     |
| Priority Substances List (PSL)                             | Not listed     |
| Toxic Substances List                                      | Not listed     |
| National Pollutant Release Inventory (NPRI) Substance List | Not listed     |

## SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

### LEGEND

#### Acronyms

Acute Toxicity Estimate  
: Acute Toxicity Estimate

CAS : Chemical Abstracts Service  
IATA : International Air Transport Association  
IBC : Intermediate Bulk Container  
ICAO : International Civil Aviation Organization  
IMDG : International Maritime Dangerous Goods  
LTEL : Long term exposure limit  
STEL : Short term exposure limit  
STOT : Specific Target Organ Toxicity  
UN : United Nations

#### Key literature references and sources for data used to compile the SDS

ACCORDING TO HAZARDOUS PRODUCTS REGULATIONS (HPR)

#### Disclaimers

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