

**SECTION 1: Identification****1.1. Identification**

Product form : Mixture  
 Product name : Bourbon Terpene Blend  
 CAS-No. : N/A  
 Product code : TPBL60

**1.2. Recommended use and restrictions on use**

No additional information available

**1.3. Supplier**

DTI MEDIA  
 TERPENES & FLAVORINGS  
 11546 COLONY ROW BROOMFIELD CO 80021  
 DENVERTERPENES.COM  
 303-625-7531

**1.4. Emergency telephone number**

Emergency number : Chemtrec - USA: 800-424-9300 - International: 703-527-3887

**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS-US classification**

|  |  |
|--|--|
| Flammable liquids Category 3                 | Flammable liquid and vapour                  |
| Skin corrosion/irritation Category 2         | Causes skin irritation                       |
| Serious eye damage/eye irritation Category 1 | Causes serious eye damage                    |
| Skin sensitization, Category 1               | May cause an allergic skin reaction          |
| Carcinogenicity Category 2                   | Suspected of causing cancer                  |
| Aspiration hazard Category 1                 | May be fatal if swallowed and enters airways |

**2.2. GHS Label elements, including precautionary statements****GHS-US labeling**

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

Flammable liquid and vapour  
 May be fatal if swallowed and enters airways  
 Causes skin irritation  
 May cause an allergic skin reaction  
 Causes serious eye damage  
 Suspected of causing cancer

Precautionary statements (GHS-US) :

Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 Keep container tightly closed.  
 Ground/Bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting equipment  
 Use only non-sparking tools.  
 Take precautionary measures against static discharge.  
 Avoid breathing dust/fume/gas/mist/vapors/spray.  
 Wash hands, forearms and face thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace  
 Wear protective gloves/protective clothing/eye protection/face protection.  
 If swallowed: Immediately call a poison center or doctor  
 If on skin: Wash with plenty of water

# Bourbon Terpene Blend

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
If exposed or concerned: Get medical advice/attention.  
Immediately call a poison center or doctor  
Specific treatment (see supplemental first aid instruction on this label)  
Do NOT induce vomiting.  
If skin irritation occurs: Get medical advice/attention.  
If skin irritation or rash occurs: Get medical advice/attention.  
Take off contaminated clothing and wash it before reuse.  
Wash contaminated clothing before reuse.  
In case of fire: Use media other than water to extinguish.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

### 2.3. Other hazards which do not result in classification

No additional information available

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name               | Product identifier   | %       | GHS-US classification  |
|--------------------|----------------------|---------|--|
| ORANGE TERPENES    | (CAS-No.) 68647-72-3 | 25 - 50 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304  |
| BETA CARYOPHYLLENE | (CAS-No.) 87-44-5    | 10 - 25 | Skin Sens. 1B, H317<br>Asp. Tox. 1, H304   |
| MYRCENE            | (CAS-No.) 123-35-3   | 10 - 25 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Carc. 2, H351<br>Asp. Tox. 1, H304   |
| BETA PINENE        | (CAS-No.) 18172-67-3 | 5 - 10  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304  |
| LINALOOL           | (CAS-No.) 78-70-6    | 5 - 10  | Flam. Liq. 4, H227<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319<br>Skin Sens. 1B, H317  |
| FUSEL OIL          | (CAS-No.) 8013-75-0  | 1 - 5   | Flam. Liq. 3, H226<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:vapour), H332<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 3, H336<br>STOT SE 3, H335 |
| ALPHA PINENE       | (CAS-No.) 7785-26-4  | 1 - 5   | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304  |
| ALPHA TERPINEOL    | (CAS-No.) 98-55-5    | 1 - 5   | Flam. Liq. 4, H227<br>Skin Irrit. 2, H315<br>Eye Irrit. 2A, H319   |
| VALENCENE          | (CAS-No.) 4630-07-3  | >= 1    | Asp. Tox. 1, H304  |
| ORANGE OIL         | (CAS-No.) 8028-48-6  | < 5     | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304   |
| TERPINOLENE        | (CAS-No.) 586-62-9   | 1 - 5   | Flam. Liq. 4, H227<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304   |

# Bourbon Terpene Blend

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of hazard classes and H-statements : see section 16

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Call a physician immediately.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.  |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.    |
| First-aid measures after ingestion    | : Do not induce vomiting. Call a physician immediately.   |

#### 4.2. Most important symptoms and effects (acute and delayed)

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                          |
| Symptoms/effects after ingestion    | : Risk of lung edema.                              |

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

#### 5.2. Specific hazards arising from the chemical

|             |                                |
|-------------|--------------------------------|
| Fire hazard | : Flammable liquid and vapour. |
| Reactivity  | : Flammable liquid and vapour. |

#### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

##### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

#### 6.2. Environmental precautions

Avoid release to the environment.

#### 6.3. Methods and material for containment and cleaning up

|                         |   |
|-------------------------|---|
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. |
| Other information       | : Dispose of materials or solid residues at an authorized site.   |

#### 6.4. Reference to other sections

For further information refer to section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

# Bourbon Terpene Blend

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### ALPHA PINENE (7785-26-4)

Not applicable

#### ALPHA TERPINEOL (98-55-5)

Not applicable

#### BETA CARYOPHYLENE (87-44-5)

Not applicable

#### BETA PINENE (18172-67-3)

Not applicable

#### LINALOOL (78-70-6)

Not applicable

#### ORANGE TERPENES (68647-72-3)

Not applicable

#### MYRCENE (123-35-3)

Not applicable

#### TERPINOLENE (586-62-9)

Not applicable

#### FUSEL OIL (8013-75-0)

Not applicable

#### VALENCENE (4630-07-3)

Not applicable

#### ORANGE OIL (8028-48-6)

Not applicable

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# Bourbon Terpene Blend

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state                              | : Liquid                                 |
| Color                                       | : COLORLESS TO PALE YELLOW               |
| Odor  | : CHARACTERISTIC OF TERPENES AND WHISKEY |
| Odor threshold                              | : No data available                      |
| pH  | : No data available                      |
| Melting point                               | : No data available                      |
| Freezing point                              | : No data available                      |
| Boiling point                               | : No data available                      |
| Flash point                                 | : 40 °C                                  |
| Relative evaporation rate (butyl acetate=1) | : No data available                      |
| Flammability (solid, gas)                   | : Not applicable.                        |
| Vapor pressure                              | : No data available                      |
| Relative vapor density at 20 °C             | : No data available                      |
| Relative density                            | : 0.86 (0.850 - 0.870)                   |
| Solubility                                  | : Insoluble.                             |
| Log Pow                                     | : No data available                      |
| Auto-ignition temperature                   | : No data available                      |
| Decomposition temperature                   | : No data available                      |
| Viscosity, kinematic                        | : No data available                      |
| Viscosity, dynamic                          | : No data available                      |
| Explosion limits                            | : No data available                      |
| Explosive properties                        | : No data available                      |
| Oxidizing properties                        | : No data available                      |

#### 9.2. Other information

|                  |                         |
|------------------|-------------------------|
| Refractive index | : 1.472 (1.462 - 1.482) |
|------------------|-------------------------|

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Flammable liquid and vapour.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

#### 10.5. Incompatible materials

No additional information available

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

#### ALPHA PINENE (7785-26-4)

|               |                        |
|---------------|------------------------|
| ATE US (oral) | 3700 mg/kg body weight |
|---------------|------------------------|

#### ALPHA TERPINEOL (98-55-5)

|               |                        |
|---------------|------------------------|
| ATE US (oral) | 4300 mg/kg body weight |
|---------------|------------------------|

# Bourbon Terpene Blend

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| <b>LINALOOL (78-70-6)</b>           |   |
|-------------------------------------|---|
| ATE US (oral)                       | 2790 mg/kg body weight  |
| <b>ORANGE TERPENES (68647-72-3)</b> |   |
| LD50 oral rat                       | > 2000 mg/kg body weight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Read-across, Oral) |
| LD50 dermal rabbit                  | > 5000 mg/kg body weight (Equivalent or similar to OECD 402, Rabbit, Weight of evidence, Dermal)                    |
| <b>FUSEL OIL (8013-75-0)</b>        |   |
| ATE US (dermal)                     | 4295 mg/kg body weight  |
| ATE US (gases)                      | 4500 ppmV/4h  |
| ATE US (vapors)                     | 15 mg/l/4h  |
| ATE US (dust, mist)                 | 1.5 mg/l/4h   |

|                                   |  |
|-----------------------------------|--|
| Skin corrosion/irritation         | : Causes skin irritation.              |
| Serious eye damage/irritation     | : Causes serious eye damage.           |
| Respiratory or skin sensitization | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : Suspected of causing cancer.         |

| <b>ORANGE TERPENES (68647-72-3)</b> |                                      |
|-------------------------------------|--------------------------------------|
| IARC group                          | 3 - Not classifiable                 |
| <b>MYRCENE (123-35-3)</b>           |                                      |
| IARC group                          | 2B - Possibly carcinogenic to humans |

|  |                  |
|--|------------------|
| Reproductive toxicity                            | : Not classified |
| Specific target organ toxicity – single exposure | : Not classified |

|  |                  |
|--|------------------|
| Specific target organ toxicity – repeated exposure | : Not classified |
|--|------------------|

|                                     |  |
|-------------------------------------|--|
| Aspiration hazard                   | : May be fatal if swallowed and enters airways.    |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                          |
| Symptoms/effects after ingestion    | : Risk of lung edema.                              |

## SECTION 12: Ecological information

### 12.1. Toxicity

|                   |  |
|-------------------|--|
| Ecology - general | : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. |
|-------------------|--|

| <b>ORANGE TERPENES (68647-72-3)</b> |   |
|-------------------------------------|---|
| LC50 fish 1                         | 720 µg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value, Lethal) |
| EC50 Daphnia 1                      | 0.36 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)   |

### 12.2. Persistence and degradability

| <b>ORANGE TERPENES (68647-72-3)</b> |                                    |
|-------------------------------------|------------------------------------|
| Persistence and degradability       | Readily biodegradable in water.    |
| ThOD                                | 3.29 g O <sub>2</sub> /g substance |

# Bourbon Terpene Blend

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 12.3. Bioaccumulative potential

| ORANGE TERPENES (68647-72-3) |  |
|------------------------------|--|
| BCF fish 1                   | 864.8 - 1022 (Pisces, QSAR, Fresh weight)  |
| Log Pow                      | 4.38 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 37 °C) |
| Bioaccumulative potential    | Potential for bioaccumulation ( $4 \geq \text{Log Kow} \leq 5$ ).                                |

### 12.4. Mobility in soil

| ORANGE TERPENES (68647-72-3) |                        |
|------------------------------|------------------------|
| Ecology - soil               | Adsorbs into the soil. |

### 12.5. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Additional information : Flammable vapors may accumulate in the container.

## SECTION 14: Transport information

### Department of Transportation (DOT)

In accordance with DOT  
Not regulated

### Transportation of Dangerous Goods

Not applicable

### Transport by sea

Transport document description (IMDG) : UN 1266 PERFUMERY PRODUCTS, 3, III  
UN-No. (IMDG) : 1266  
Proper Shipping Name (IMDG) : PERFUMERY PRODUCTS  
Class (IMDG) : 3 - Flammable liquids  
Packing group (IMDG) : III - substances presenting low danger  
Limited quantities (IMDG) : 5 L

### Air transport

Transport document description (IATA) : UN 1266 Perfumery products, 3, III  
UN-No. (IATA) : 1266  
Proper Shipping Name (IATA) : Perfumery products  
Class (IATA) : 3 - Flammable Liquids  
Packing group (IATA) : III - Minor Danger

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

| ALPHA PINENE (7785-26-4)  |  |
|---|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| ALPHA TERPINEOL (98-55-5)   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |

# Bourbon Terpene Blend

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

|   |
|---|
| <b>BETA CARYOPHYLLENE (87-44-5)</b>   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |
| <b>BETA PINENE (18172-67-3)</b>   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |
| <b>LINALOOL (78-70-6)</b>   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |
| <b>ORANGE TERPENES (68647-72-3)</b>   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |
| <b>MYRCENE (123-35-3)</b>   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |
| <b>TERPINOLENE (586-62-9)</b>   |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |
| <b>FUSEL OIL (8013-75-0)</b>  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |
| <b>VALENCENE (4630-07-3)</b>  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory     |
| <b>ORANGE OIL (8028-48-6)</b>   |
| Not listed on the United States TSCA (Toxic Substances Control Act) inventory |

### 15.2. International regulations

#### CANADA

|  |
|--|
| <b>ALPHA PINENE (7785-26-4)</b>                            |
| Listed on the Canadian NDSL (Non-Domestic Substances List) |
| <b>ALPHA TERPINEOL (98-55-5)</b>                           |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>BETA CARYOPHYLLENE (87-44-5)</b>                        |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>BETA PINENE (18172-67-3)</b>                            |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>LINALOOL (78-70-6)</b>                                  |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>ORANGE TERPENES (68647-72-3)</b>                        |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>MYRCENE (123-35-3)</b>                                  |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>TERPINOLENE (586-62-9)</b>                              |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>FUSEL OIL (8013-75-0)</b>                               |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>VALENCENE (4630-07-3)</b>                               |
| Listed on the Canadian DSL (Domestic Substances List)      |
| <b>ORANGE OIL (8028-48-6)</b>                              |
| Listed on the Canadian DSL (Domestic Substances List)      |

#### EU-Regulations

No additional information available



# Bourbon Terpene Blend

## Safety Data Sheet


according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### National regulations

#### MYRCENE (123-35-3)

Listed on IARC (International Agency for Research on Cancer)

### 15.3. US State regulations

 **WARNING:** This product can expose you to myrcene, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### TERPINOLENE (586-62-9)

U.S. - New Jersey - Right to Know Hazardous Substance List

## SECTION 16: Other information

Revision date : 10/29/2018

Full text of H-phrases:

|      |  |
|------|--|
| H226 | Flammable liquid and vapour                  |
| H227 | Combustible liquid                           |
| H304 | May be fatal if swallowed and enters airways |
| H315 | Causes skin irritation                       |
| H317 | May cause an allergic skin reaction          |
| H318 | Causes serious eye damage                    |
| H319 | Causes serious eye irritation                |
| H332 | Harmful if inhaled                           |
| H335 | May cause respiratory irritation             |
| H336 | May cause drowsiness or dizziness            |
| H351 | Suspected of causing cancer                  |

SDS US (GHS HazCom 2012) -

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*