

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : BOURBON OAK TTB APPROVED FLAVOR  
CAS-No. : N/A  
Product code : TBBS25  
Product group : Trade product

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

For food use only.

##### 1.2.2. Uses advised against

Not for use in cigarettes, e-cigarettes, inhalation products, fragrances, aromatherapy or cosmetics.

#### 1.3. Details of the supplier of the safety data sheet

EXTRACT CONSULTANTS, LLC.  
TERPENES - FLAVORS - BASES  
7321 HERITAGE SQUARE DR, SUITE 2110, GRANGER, IN 46530  
www.extractconsultants.com  
INFORMATION: 888-541-9089

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC - USA: 800-424-9300 International: +1 703-527-3887 / 1-800-424-9300  
CCN 13010

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids Category 3 H226  
Eye Damage / Irritation Category 2 H319

Full text of H statements : see section 16

##### Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

#### 2.2. Label elements

##### Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

GHS07

Signal word (CLP)

: Danger

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Hazardous ingredients	: ETHYL ALCOHOL, NATURAL
Hazard statements (CLP)	: H226 - Flammable liquid and vapor. H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 - Ground and bond container and receiving equipment. P241 - Use explosion-proof electrical, ventilating and lighting equipment. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static discharge. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P280 - Wear protective gloves/eye protection/face protection. P264 - Wash hands, forearms and face thoroughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P337+P313 - If eye irritation occurs: Get medical advice/attention. P370+P378 - In case of fire: Use media other than water to extinguish. P501 - Dispose of contents/container to approved disposal site, in accordance with local regulations.

### 2.3. Other hazards

No additional information available

## SECTION 3: Composition/Information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ETHYL ALCOHOL	(CAS-No.) 64-17-5 (EC-No.) 200-578-6	≥ 50	EDI 2-FL 2; H225-H319 Eye Irrit. 2; H319; C ≥ %

Full text of H-phrases: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person from exposure site to fresh air, keep at rest, and obtain medical attention.
First-aid measures after skin contact	: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth with water and obtain medical attention.

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

Causes serious eye irritation

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

None expected, see Section 4.1 for further information.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide, Dry chemical, Foam.

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

In case of fire, may be liberated : Carbon monoxide, Unidentified organic compounds.

### 5.3. Advice for firefighters

In case of insufficient ventilation, wear suitable respiratory equipment.

## SECTION 6: Accidental release measures

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

Avoid inhalation. Avoid contact with skin and eyes. See protective measures under Section 7 and 8.

### 6.2. Environmental precautions

Keep away from drains, surface and ground water, and soil.

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

Remove ignition sources. Provide adequate ventilation. Avoid excessive inhalation of vapors. Contain spillage immediately by use of sand or inert powder. Dispose of according to local regulations.

### 6.4. Reference to other sections

For further information refer to sections 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep away from heat, sparks, open flames and hot surfaces. No smoking

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

Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Ground/bond container and receiving equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

### 7.3. Specific end use(s)

Use in accordance with good manufacturing and industrial hygiene practices.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### ETHYL ALCOHOL (64-17-5)

#### Occupational Exposure Limits

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Long-term exposure limit (8-hour TWA) (ppm)	1000
Long-term exposure limit (8-hour TWA) (mg/m <sup>3</sup> )	1920
Short-term exposure limit (15-minute) (ppm)	3000
Short-term exposure limit (15-minute) (mg/m <sup>3</sup> )	5760

### 8.2. Exposure controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### Hand protection:

Protective gloves

#### Eye protection:

Safety glasses

#### Skin and body protection:

Wear suitable protective clothing

#### Respiratory protection:

Ensure adequate and ongoing ventilation is maintained in order to prevent build up of excessive vapor and to ensure occupational exposure limits are adhered to. If appropriate, and depending on your patterns and volumes of use, the following engineering controls may be required as additional protective measures: a) 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. b) Employ the use of Personal protective equipment - an approved, properly fitted respirator with organic vapor cartridges or canisters and particulate filters. c) 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. d) Use closed systems for transferring and processing this material.

Also refer to Sections 2 and 7.

#### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

Physical state/Color	A clear to dark brown liquid
Odor	Of bourbon oak
Odor Threshold	Not determined

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<b>Melting point / freezing point:</b>	Not determined
<b>Boiling point or initial boiling point and boiling</b>	Not determined
<b>Flammability</b>	Not determined
<b>Lower and upper explosion limit</b>	Not determined
<b>Flash point</b>	22 °C
<b>Auto-ignition temperature</b>	Not determined
<b>Decomposition temperature</b>	Not relevant
<b>pH</b>	Not determined
<b>Kinematic viscosity</b>	Not determined
<b>Solubility</b>	Soluble in Water. Not Oil Soluble.
<b>Partition coefficient n-octanol/water (Log Pow)</b>	Not determined
<b>Vapor pressure</b>	Not determined
<b>Relative density @ 25 °C</b>	Not determined
<b>Relative vapor density</b>	Not determined
<b>Particle characteristics</b>	Not determined

### 9.2. Other information

Density @ 20 °C 0.8820 - 0.9020 g/cm<sup>3</sup>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Presents no significant reactivity hazard, by itself or in contact with water.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Not expected under normal conditions of use.

### 10.4. Conditions to avoid

Avoid extreme heat.

### 10.5. Incompatible materials

Avoid contact with strong acids, alkalis, or oxidising agents.

### 10.6. Hazardous decomposition products

Not expected.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

<b>Acute Toxicity</b>	Based on available data the classification criteria are not met.
Acute Toxicity Oral	Not applicable
Acute Toxicity Dermal	Not applicable
Acute Toxicity Inhalation	Not available
<b>Skin corrosion/irritation</b>	Based on available data the classification criteria are not met.
<b>Serious eye damage/irritation</b>	Eye Damage / Irritation Category 2
<b>Respiratory or skin sensitisation</b>	Based on available data the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data the classification criteria are not met.
<b>STOT-single exposure</b>	Based on available data the classification criteria are not met.
<b>STOT-repeated exposure</b>	Based on available data the classification criteria are not met.

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### Aspiration hazard

Based on available data the classification criteria are not met.

### Information about hazardous ingredients in the mixture

Not applicable. Refer to Sections 2 and 3 for additional information.

## 11.2 Information on other hazards

Not applicable

## SECTION 12: Ecological information

### 12.1 Toxicity

Not available

### 12.2 Persistence and degradability

Not available

### 12.3 Bioaccumulative potential

Not available

### 12.4 Mobility in soil

Not available

### 12.5 Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

### 12.6 Endocrine disrupting properties

Not applicable

### 12.7 Other adverse effects

Not available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Dispose of in accordance with local regulations. Avoid disposing into drainage systems and into the environment. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

	14.1 UN number	14.2. UN proper shipping name	14.3 Transport hazard class(es)	Sub risk	14.4 Packing group
UN Model Regulations	UN1170	ETHANOL		3 -	III
IMDG	UN1170	ETHANOL		3 -	III
ADR,RID,ADN	UN1170	ETHANOL		3 -	III

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ICAO TI	UN1170	ETHANOL	3-	III
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### 14.5. Environmental hazards

Not environmentally hazardous for transport

### 14.6. Special precautions for user

None additional

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

Not applicable

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

None additional

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

**Concentration % Limits** EDI 2=16.13%

**Total Fractional Values** EDI 2=6.20

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level

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NOEC	No-Observed Effect Concentration
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative
WGK	Water Hazard Class

### Full text of H- and EUH-phrases:

Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H413	May cause long lasting harmful effects to aquatic life.

SDS EU (REACH Annex II)

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.