

SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

SECTION 1: IDENTIFICATION

Trade Name:	Angostura® Orange Bitters
Product Identification:	Bitters
Manufacturer:	Angostura Limited / Trinidad Distillers Limited
Emergency Telephone:	1-868-623-1841 
CHEMTREC:	1-800-424-9300 
Recommended Usage:	Angostura® Orange Bitters is a concentrated food and beverage flavouring that is used in small amounts or dashes to add sophistication and enhance the flavour of food dishes and drink mixes.
Usage Restrictions:	Angostura® Orange Bitters has never been consumed or used as a beverage, as it is indeed unpalatable, tasted in isolation.

SECTION 2: HAZARD(S) IDENTIFICATION

Chemical Hazard Classification:	3 – Flammable Liquid
Signal Word:	Warning
Hazard Statement:	Flammable liquid and vapour splashes may cause eye irritation, a weak oxidiser.
GHS Label Elements:	
Precautionary Statement:	Read the label before use. Keep out of reach of children.
Description of other Hazards:	Not available



SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

SECTION 3: COMPOSITIONS / INFORMATION ON INGREDIENTS

Substance/Mixture:	Mixture	
Chemical Name:	Orange Bitters	
Common Name and Synonyms:	Bitters, Orange Bitters, Angostura Orange Bitters	
Formulation:	A skillfully blended preparation of a variety of orange extracts and spices.	
Chemical Abstract Service (CAS) Number:		
CAS #	Chemical Name:	Percent:
64-17-5	Ethyl Alcohol	28.0

SECTION 4: FIRST AID MEASURES

Eye Contact:	• Flush eyes well with large quantities of water for at least fifteen (15) minutes.
Inhalation:	• Seek medical attention if required. • If overcome by exposure, remove the victim to fresh air immediately.
Skin:	• Seek medical attention if required. • Wash skin thoroughly with mild soap/water.
Ingestion:	• Seek medical attention if ill effect or irritation develops. • Use the product as directed on the label. • For large amounts, seek medical attention.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Equipment:	• Carbon dioxide, "alcohol-type foam" dry chemical, water in deluge quantities.
Hazardous Combustion by-products	• Vapours from this product may travel more by air to an ignition source and flash back.
Special Fire-fighting Procedures:	• Keep upwind • Shut down all possible sources of ignition • Water may be ineffective, but used to keep fire-exposed containers cool.

Date of Issue / Revision: 2023-11-29
Date of Previous Issue: 2023-10-11

Page 2 of 10

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SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

Unusual Fire and Explosion Hazards:

- Keep run-off water out of sewers and water sources
- Dike for water control
- Use spray or fog nozzles
- Cool containers exposed to flames with water from the side until well after the fire is out.
- Move container from fire area if it can be done without risk
- If the risk of water pollution occurs, notify the appropriate authorities.
- Vapours from this product may travel or move by air to an ignition source and flashback.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill and clean-up procedures:

- Shut off all ignition sources. Put on appropriate personal protective equipment as required. Cordon off the spill area/stop the leak if you can do it without risk. Do not touch or walk through spilt material.
- Provide adequate ventilation. Avoid breathing vapour.
- Move containers from the spill area.
- Use spark-proof tools and explosion-proof equipment.
- Approach release from upwind.
- Prevent entry into sewers, watercourses, basements or confined areas.
- Note: Section 1 for emergency contact information and Section 13 for waste disposal.

SECTION 7: HANDLING & STORAGE

Precautions for safe handling – protective measures:

Precautions for safe handling – Advice on general occupational hygiene:

Precautions for safe handling - Conditions for safe storage,

- Avoid breathing vapour
- Eating, drinking, and smoking should be prohibited where this material is handled, stored and processed.
- Store under local regulations.
- Eliminate all ignition sources.
- Separate from oxidising materials

Date of Issue / Revision: 2023-11-29
Date of Previous Issue: 2023-10-11

Page 3 of 10

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SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

**including any
incompatibilities:**

- Keep tightly closed and sealed until ready for use.
- Do not store in unlabelled containers
- Use appropriate containment to avoid environmental contamination
- Store at room temperature out of direct sunlight.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA Permissible Exposure

Limit:

ACGIH Threshold Limit

Value:

NIOSH:

**Environmental exposure
controls (for large spills):**

Personal precautions:

- 1000 ppm TWA (ethanol)
- 1900 mg/m³ TWA
- 1000 ppm
- 1000 ppm TWA (ethanol)
- 1900 mg/m³
- TWA 3300 ppm IDLH
- Prevent dispersion of the material. Avoid discharge into drains, watercourses or the ground.
- Inform authorities if large amounts are involved. Do not flush into the sewer.
- Avoid eye and skin contact. If spillage or splashing is likely to occur during handling, wear safety spectacles.
- Approved barrier creams may help prevent dermatitis when prolonged skin contact is unavoidable; otherwise, wear PVC gloves.
- Breathing apparatus may assist if working with large volumes in confined spaces.
- Wash hands after use. Do not smoke.

Date of Issue / Revision: 2023-11-29

Date of Previous Issue: 2023-10-11

Page 4 of 10

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SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Appearance – Physical State:	pH:	Upper explosive limits (UEL):	Solubility:
Liquid	Not available	19%	Not available
Appearance – Colour:	Proof:	Specific Gravity H₂O @ 20°C:	Solubility in Water:
Orange	56.0	Not Available	Not available
Melting / Freezing Point:	Flash Point (closed cup):	Vapour pressure and density:	Partition coefficient: n-octanol/water:
Not available	84.2°F or 29.0 °C	Not available	Not available
Boiling Point:	Burning Time:	Vapour Density (air = 1)	Auto-ignition temperature:
Not available	Not available	Not available	Not available
Odour:	Flammability (solid, gas):	Vapor Pressure (mm Hg @ 20oC)	Absolute Viscosity at 300K - temp:
The orange top is rounded off with a combination of aromatic spices. Fresh and flavourful with a soft, mellow note.	Not available	Not available	Not available
Odour Threshold:	Low explosive limited (LEL):	Relative Density (Water = 1):	
Not available	3.3%	Not available	

SECTION 10: STABILITY AND REACTIVITY

Reactivity:	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability:	This product is stable.
Possibility of hazardous reactions:	Under normal conditions of storage and use, hazardous reactions will not occur.

Date of Issue / Revision: 2023-11-29

Date of Previous Issue: 2023-10-11

Page 5 of 10

The electronic version of this document is the approved and most current. Any printed version is uncontrolled and may not be current. Contact QualityAssurance@angostura.com if you are not certain if you have the most current version.



SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

Conditions to avoid:	Avoid all possible sources of ignition (spark or flame).
Incompatibility with various substances:	Highly reactive or incompatible with the following materials: oxidising materials
Hazardous decomposition products:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Hazardous polymerisation:	Under normal conditions of storage and use, hazardous polymerisation will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: Not available	Specific target organ toxicity: (single exposure): Not available	Short-term exposure – potential immediate effects: Not available
Irritation / Corrosion: Not available	Specific target organ toxicity (repeated exposure): Not available	Short-term exposure – potential delayed effects: Not available
Sensitisation: Not available	Aspiration hazard: Not available	Potential chronic health effects – general, carcinogenicity, mutagenicity, teratogenicity: No Specific Data
Mutagenicity: Not available	Information on the likely routes of exposure: Not available	Potential chronic health effects – developmental effects May cause reproductive and fetal effects
Carcinogenicity: Not available	Potential acute health effects – eye contact, inhalation, skin contact and ingestion: Not available	Potential chronic health effects – fertility effects Not available

Date of Issue / Revision: 2023-11-29

Date of Previous Issue: 2023-10-11

Page 6 of 10

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SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

Reproductive toxicity: Not available	Symptoms related to the physical, chemical and toxicological characteristics – eye contact, inhalation, skin contact and ingestion: Not Specific Data	Teratogenicity: Not available
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SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Not available	Bioaccumulative potential – Product/Ingredient Name: Not available
Persistence and degradability: Not available	Bioaccumulative potential – LogPow: Not available
Mobility in the soil – soil/water partition coefficient (Koc): Not available	Bioaccumulative potential – BCF: Not available
Mobility in the soil – Other adverse effects: Not available	Bioaccumulative potential: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:

- The generation of waste should be avoided or minimised wherever possible.
- Disposal of this product, solutions and any by-products should at all times comply with environmental protection and waste disposal legislation requirements and any regional local authority requirements.

Date of Issue / Revision: 2023-11-29

Date of Previous Issue: 2023-10-11

Page 7 of 10

The electronic version of this document is the approved and most current. Any printed version is uncontrolled and may not be current. Contact QualityAssurance@angostura.com if you are not certain if you have the most current version.



SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

- Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.
- Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
- Avoid dispersal of spilt material, run-off, and contact with soil, waterways, drains and sewers.
- Waste packaging should be recycled. Landfill should only be considered when recycling is not feasible.
- This material and its container must be disposed of securely.
- Empty containers may retain some product residues.
- Vapour from product residues may create a flammable atmosphere inside the container.

SECTION 14: TRANSPORT INFORMATION

UN Number: UN1197

UN Proper Shipping Name: Extracts, Liquid

Transport Hazard Class: 3 – Flammable Liquid

Packing Group Number: III

International Maritime UN 1197

Dangerous Goods Code

(IMDG Code):

Special Precautions:

Transport within the user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do during an accident or spillage.

Date of Issue / Revision: 2023-11-29

Date of Previous Issue: 2023-10-11

Page 8 of 10

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SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations:	The Bureau of Alcohol, Tobacco and Firearms (Department of the Treasury) regulates the production, procurement and use of ethyl alcohol products.
E.C. Directives:	• Substances Directive 67/548/EEC as amended by • 69/81/EEC, 709/189/EEC, 73/146/EEC, 75/409/EEC, • 79/831/EEC General Preparations Directive 88/379/EEC. • European Communities (Classification, Packaging, • Labelling and Notification of Dangerous Substances) • Regulations 1994. S.I. No. 77 of 1994. • Dangerous Substances (Conveyance of Scheduled • Substances by Road) (Trade of Business) Regulations, • 1980. S.I. No. 235 of 1980. • Safety, Health and Welfare at Work (Chemical Agents) • Regulations, 1994. S.I. No. 445 of 1994.
Canadian Regulations:	• CAS# 64-17-5 is listed on Canada's DSL List. • CAS# 7732-18-5 is listed on Canada's DSL List. • This product has a WHMIS classification of B2, D2A, D2B. • CAS# 64-17-5 is listed on the Canadian Ingredient Disclosure List.
Harmonized System Codes(s)	HS 3302 - Odoriferous substances and mixtures (including alcoholic solutions) with a basis of one or more of these substances used as raw materials in industry; other preparations based on odoriferous substances of a kind used for beverage manufacture.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAP's):	Not listed
Clean Air Act Section 602 Class I and II Substances:	Not listed
DEA List I and List II Chemicals (Precursor Chemicals):	Not listed



SAFETY DATA SHEET
QA-SDS-007: ANGOSTURA® ORANGE BITTERS

SECTION 16: OTHER INFORMATION

General Disclaimer:

To the best of our knowledge, the information contained herein is accurate. It does not represent a guarantee of the product's properties and is furnished without warranty and acceptance of liability of any kind by Trinidad Distillers Limited. It characterises the product with regard to the appropriate safety precautions. Users should use this information only as a supplement to other information they gathered. They must make independent determinations of suitability and completeness of information from all sources to ensure proper use of these materials and safety and health.

Other Information:

This document has been updated to comply with the US OSHA HazCom 2012 Standard, replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

REVIEWED

By Kelly Butler at 11:44 am, Aug 19, 2024

Date of Issue / Revision: 2023-11-29

Date of Previous Issue: 2023-10-11

Page **10** of **10**

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