

Revision Date: 11-01-2018 Page 1 of 11

Version # 02 Print Date: 11-01-2018

1. IDENTIFICATION

Product Description: ISOBORNEOL NATURAL

CAS # 124-76-5 FEMA Number 2158

Other means of identification

Gold Coast SKU # GCI-ISOB

Recommended use Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance

Recommended restrictions compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.

For Manufacturing Use Only

<u>Company</u> <u>24 Hour Emergency Response Information</u>

Gold Coast Terpenes LLC INFOTRAC (ACCT# 78928);

1201 N Catalina Ave. PO Box 3435 1-800-535-5053 WITHIN THE U.S.A. 1-352-323-3500 OUTSIDE THE U.S.A.

Redondo Beach CA 90277

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Gold Coast Terpenes LLC
Address 1201 N Catalina Ave. PO
Box 3435 Redondo Beach

Box 3435 Redondo Be

CA 90277

516-330-9806

(ACCT# 78928);

Telephone For information call:
Website goldcoastterpenes.com

E-mail Not available. INFOTRAC

L-mail Not available. INFOTRAC

Emergency phone number 1-800-535-5053 WITHIN THE U.S.A. 0UTSIDE THE U.S.A.

2. HAZARD(S) IDENTIFICATION

Physical hazardsFlammable solidsCategory 1Health hazardsSkin corrosion/irritationCategory 2

Environmental hazards Not classified.

Label elements



Signal word Danger

Hazard statement Flammable solid. Causes skin irritation.



Revision Date: 11-01-2018 Page 2 of 11

Version # 02 Print Date: 11-01-2018

Precautionary statement

Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Ground and bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting equipment. Wash thoroughly after handling. Wear protective

gloves/protective clothing/eye protection/face protection.

Response IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse. In case of fire: Use appropriate media to

extinguish.

Storage Store away from incompatible materials.

Disposal Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC)

wise WARNING! May form combustible dust concentrations in air. Avoid breathing dust.

Supplemental information 100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 100% of the

mixture consists of component(s) of unknown acute hazards to the aquatic environment. 100% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
EXO-2-BORNANOL	DL-iso borneol exo-2- hydroxy-1,7,7-trimethyl norbornane	124-76-5	100

4. FIRST-AID MEASURES

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or

persist.

Skin contact Take off immediately all contaminated clothing. Get medical attention if irritation develops and

persists. Wash skin thoroughly with soap and water for several minutes.

Eye contact Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and

persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if

the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low

so that stomach vomit doesn't enter the lungs.

Most important

symptoms/effects, acute and

delayed

Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

Indication of immediate medical attention and special treatment

Not available.

needed

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray, fog, CO2, dry chemical, or alcohol resistant foam.



Revision Date: 11-01-2018 Page 3 of 11

Version # 02 Print Date: 11-01-2018

Unsuitable extinguishing media

Specific hazards arising from

the chemical

Do not use a solid water stream as it may scatter and spread fire.

Explosion hazard: Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Fire may produce

irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Use water spray to cool unopened containers.

Specific methods

General fire hazards

Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Methods and materials for containment and cleaning up

Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Sweep up and place in a clearly labeled container for chemical waste. Wash contaminated area with water. Use only non-sparking tools. Avoid the generation of dusts during clean-up. This material and its container must be disposed of as hazardous waste. Collect and dispose of spillage as indicated in section 13 of the SDS.

Never return spills in original containers for re-use.

Environmental precautions

Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. HANDLING AND STORAGE

Precautions for safe handling

Take precautionary measures against static discharges when there is a risk of dust explosion. Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Do not handle or store near an open flame, heat or other sources of ignition. Assume that this material is capable of producing a dust explosion if ignited as a dust cloud.

Take precautionary measures against static discharges. Avoid breathing vapor. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.



Revision Date: 11-01-2018 Page 4 of 11

Version # 02 Print Date: 11-01-2018

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

This substance has no PEL, TLV, or other recommended exposure limit.

Biological limit valuesNo biological exposure limits noted for the ingredient(s).

recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use explosion-proof ventilation equipment to stay below exposure limits.

Adequate ventilation should be provided so that exposure limits are not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Chemical resistant gloves.

Other Not available.

Respiratory protection Dust mask.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such

as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Refer to Spec Sheet

Physical state Powder\Crystal.

Form Powder. Crystalline powder.

Color Refer to Spec Sheet

Odor Characteristic.

Odor threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point > 200.0 °F (> 93.3 °C) Closed Cup

Evaporation rate Not available.

Flammability (solid, gas) Flammable solid.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

Not available.

(%)



Revision Date: 11-01-2018 Page 5 of 11

Version # 02 Print Date: 11-01-2018

Explosive limit - lower (%)

Explosive limit - upper (%)

Vapor pressure

Vapor density

Not available.

Not available.

Not available.

1.1 g/cm³ at 20 °C

Solubility(ies)

Solubility (water) Insoluble

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity Not available.

Other information

Explosive properties

Molecular formula

C10-H18-O

Molecular weight

154.24 g/mol

Oxidizing properties

Not oxidizing.

10. STABILITY AND REACTIVITY

ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Keep away from heat, sparks and open flame. Avoid temperatures exceeding the flash point.

Contact with incompatible materials. Minimize dust generation and accumulation.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products if stored and handled as indicated.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Irritating to respiratory system.

Skin contact Causes skin irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Dusts may irritate the respiratory tract, skin and eyes. Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Not known.



Revision Date: 11-01-2018 Page 6 of 11

Version # 02 Print Date: 11-01-2018

Product Species Test Results

ISOBORNEOL NATURAL (CAS 124-76-5)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

EcotoxicityThe product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Persistence and degradability

No data is available on the degradability of this substance.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.



Revision Date: 11-01-2018 Page 7 of 11

Version # 02 Print Date: 11-01-2018

13. DISPOSAL CONSIDERATIONS

Disposal instructionsDo not discharge into drains, water courses or onto the ground. Do not allow this material to drain

into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or

used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulationsDispose in accordance with all applicable regulations.

Hazardous waste code Not established.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. TRANSPORT INFORMATION

General Any information contained in this section was the default information brought in by MSDgen and

is not necessarily applicable to this material.

ADN

UN number 1325

UN proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (ISOBORNEOL)

Transport hazard class(es)

Subsidiary class(es)

Packing group

Environmental hazards

Labels required

4.1

ADR

UN number 1325

UN proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (ISOBORNEOL)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing group II
Environmental hazards No
Labels required 4.1

RID

UN number 1325

UN proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (ISOBORNEOL)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing Group II
Environmental Hazards No
Labels required 4.1

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.



Revision Date: 11-01-2018 Page 8 of 11

Version # 02 Print Date: 11-01-2018

DOT

BULK

UN number 1325

Proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (ISOBORNEOL)

Hazard class 4.1
Packing group III

Environmental hazards

Marine pollutant No Labels required 4.1

DOT

NON-BULK

UN number 1325

Proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (ISOBORNEOL)

Hazard class 4.1
Packing group III

Environmental hazards

Marine pollutant No Labels required 4.1

IATA

UN number 1325

UN proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (ISOBORNEOL)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing group III
Environmental hazards No
Labels required 4.1

IMDG

UN number 1325

UN proper shipping name FLAMMABLE SOLID, ORGANIC, N.O.S. (ISOBORNEOL)

Transport hazard class(es) 4.1
Subsidiary class(es) Packing group II
Environmental hazards

Marine pollutant No Labels required 4.1

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

Revision Date: 11-01-2018 Page 9 of 11

Version # 02 Print Date: 11-01-2018

ADN; ADR; DOT BULK; DOT NON-BULK; IATA; IMDG; RID



General information

Any information contained in this section was the default information brought in by MSDgen and is not necessarily applicable to this material.

15. REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not available.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

Classified hazard Flammable (gases, aerosols, liquids, or solids)

categories Combustible dust

Skin corrosion or irritation

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.



SAFETY DATA SHEET

Isoborneol SDS

Revision Date: 11-01-2018 Page 10 of 11

Version # 02 Print Date: 11-01-2018

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

California Proposition 65

California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*	
Australia	Australian Inventory of Chemical Substances (AICS)	Yes	
Canada	Domestic Substances List (DSL)	Yes	
Canada	Non-Domestic Substances List (NDSL)	No	
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes	
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes	
Europe	European List of Notified Chemical Substances (ELINCS)	No	
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes	
Korea	Existing Chemicals List (ECL)	Yes	
New Zealand	New Zealand Inventory	Yes	
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes	
Taiwan	Taiwan Toxic Chemical Substances (TCS)	Yes	
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes	
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).			

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

 Issue date
 11-01-2018

 Revision date
 11-01-2018

Version # 02

Further information Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the

Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

HMIS® ratings Health: 2

Flammability: 3 Physical hazard: 0 Revision Date: 11-01-2018 Page 11 of 11

Version # 02 Print Date: 11-01-2018

Disclaimer

Gold Coast Terpenes LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Gold Coast Terpenes LLC has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Gold Coast's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable laws and regulations.