

Revision Date: 01-01-2019 Page 1 of 16

Version # 01 Print Date: 01-01-2019

1. IDENTIFICATION

Product Description: CARENE DELTA-3 NATURAL

CAS# 13466-78-9

FEMA Number 3821

Other means of identification

Gold Coast SKU# GCI-3CAR

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

CA 90277

Telephone For information call: 516-330-9806

Website goldcoastterpenes.com

E-mail Not available. INFOTRAC

Emergency phone number 1-800-535-5053 (ACCT# 78928); 1-352-323-3500 WITHIN THE U.S.A.

1-352-323-3500 WITHIN THE U.S.A. OUTSIDE THE U.S.A.

2. HAZARD(S) IDENTIFICATION

Physical hazards Flammable liquids Category 3

Health hazards Acute toxicity, oral Category 5

Skin corrosion/irritation Category 2
Sensitization, skin Category 1
Aspiration hazard Category 1

Category 1

Category 1

Environmental hazards Hazardous to the aquatic environment,

acute hazard

Hazardous to the aquatic environment,

long-term hazard



Page 2 of 16 Revision Date: 01-01-2019

Version # 01 Print Date: 01-01-2019

Label elements



Signal word Danger

Hazard statement Flammable liquid and vapor. May be harmful if swallowed. May be fatal if swallowed and enters

airways. Causes skin irritation. May cause an allergic skin reaction. Very toxic to aquatic life. Very

toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention 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 explosion-proof electrical/ventilating/lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist or vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the

environment. Wear protective gloves/protective clothing/eye protection/face protection.

IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. IF ON Response

> SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Call a POISON CENTER/doctor if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use

appropriate media to extinguish. Collect spillage.

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

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

Supplemental information

None known.

100% of the mixture consists of component(s) of unknown acute dermal toxicity. 100% of the

mixture consists of component(s) of unknown acute inhalation toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Chemical name	Common name and synonyms	CAS number	%
CARENE DELTA	3,7,7-trimethyl bicyclo(4.1.0)hept-3-ene 3,7,7-trimethyl bicyclohept-3-ene 3,7,7-trimethyl-3-norcarene	13466-78-9	100
Additional components			
Chemical name	Common name and synonyms	CAS number	%

Mixture blank CYMENE PARA 99-87-6

1- methyl-4-propan-2-ylbenzene

4-METHYL ISOPROPYL BENZENE

Methyl isopropyl benzene

DOLCYMENE 4-iso propyl toluene para-methylcumene camphogen



Revision Date: 01-01-2019 Page 3 of 16

Version # 01 Print Date: 01-01-2019

Additional components

Chemical name	me Common name and synonyms		%
DIPENTENE	p- mentha-1,8-diene D,L- limonene 1- methyl-4-prop-1-en-2-ylcyclohexene	138-86-3	
PINENE BETA	7,7-dimethyl-4-methylidenebicyclo[3.1.1] heptane (1)-6,6- dimethyl-2-methylene bicyclo(3.1.1) heptane	127-91-3	
P-MENTHA-1(7),2- DIENE	3- methylidene-6-propan-2-ylcyclohexene BETA-PHELLANDRENE 4 isopropyl-1-methylene-2-cyclohexene 2-P-MENTHADIENE	555-10-2	
TERPINENE ALPHA	terpilene p-Mentha-1,3-diene 1- methyl-4-propan-2-ylcyclohexa-1,3-diene 4-iso-propyl-1-methyl-1,3-cyclohexadiene	99-86-5	
TERPINENE GAMMA	4-iso propyl-4-methyl-1,4-cyclohexadiene p-Mentha-1,4-diene 1,4-p-Menthadiene 1-METHYL-4-(1-METHYLETHYL)- 1,4-CYCLOHEXADIENE	99-85-4	
TERPINOLENE	cyclohexene, 1-methyl-4-(1-methylethylidene)- 1-METHYL-4-PROPAN-2-YLIDENE CYCLOHEXENE p- menth-1,4,8-diene P- METH-1-EN-8-YL-FORMATE 4-iso propylidene-1-methyl cylohexene	586-62-9	

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

Aspiration may cause pulmonary edema and pneumonitis. Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and pain. May cause an allergic skin

reaction. Dermatitis. Rash.



Revision Date: 01-01-2019 Page 4 of 16

Version # 01 Print Date: 01-01-2019

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

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

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

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Unsuitable extinguishing media

Do not use a solid water stream as it may scatter and spread fire. Fire may produce irritating, corrosive and/or toxic gases.

Use water spray to cool unopened containers.

Specific hazards arising from the chemical

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.

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). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. 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.

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.



Revision Date: 01-01-2019 Page 5 of 16

Version # 01 Print Date: 01-01-2019

7. HANDLING AND STORAGE

Precautions for safe handling Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary

measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. ACGIH Threshold Limit Values

Material	Туре	Value		
CARENE DELTA (CAS 13466-78-9)	TWA	20 ppm		
Additional components	Туре	Value		
PINENE BETA (CAS 127-91-3)	TWA	20 ppm		
US. Workplace Environmental Exposure Level (WEEL) Guides				
Additional components	Туре	Value		
DIPENTENE	TWA	165.5 mg/m3		

(CAS 138-86-3) 30 ppm

Biological limit values No biological exposure limits noted for the ingredient(s).



Revision Date: 01-01-2019 Page 6 of 16

Version # 01 Print Date: 01-01-2019

Exposure guidelines

· Components with limit values that require monitoring at the workplace:

Delta-3-carene (CAS 13466-78-9) Belgium: limit value - 8 hours = 20 ppm

Sweden: limit value - 8 hours = 150 mg/m³ (25 ppm) Sweden: limit value - short term = 300 mg/m³ (50 ppm)

United Kingdom and Ireland: none beta-Pinene (CAS 127-91-3)

Belgium: limit value - 8 hours = 20 ppm

Denmark: limit value - 8 hours = 140 mg/m³ (25 ppm) Denmark: limit value - short term = 280 mg/m³ (50 ppm) Sweden: limit value - 8 hours = 150 mg/m³ (25 ppm) Sweden: limit value - short term = 300 mg/m³ (50 ppm)

Dipentene (dl-limonene - CAS 138-86-3)

Sweden: limit value - 8 hours = 150 mg/m³ (25 ppm) Sweden: limit value - short term = 300 mg/m³ (50 ppm)

D-limonene (CAS 5989-27-5) - one of the two isomers of dipentene (CAS 138-86-3)

Germany (AGS): limit value - 8 hours = 110 mg/m³ (20 ppm) Germany (AGS): limit value - short term = 220 mg/m³ (40 ppm) Germany (DFG): limit value - 8 hours = 28 mg/m³ (5 ppm) Germany (DFG): limit value - short term = 112 mg/m³ (20 ppm)

Paracymene (CAS 99-87-6)

Belgium: limit value - 8 hours = 100 mg/m³ (20 ppm)

Denmark: limit value - 8 hours = 135 mg/m³ (25 ppm)

Denmark: limit value - short term = 270 mg/m³ (50 ppm)

Sweden: limit value - 8 hours = 140 mg/m³ (25 ppm)

Sweden: limit value - short term = 190 mg/m³ (35 ppm)

Terpenes

Austria: limit value - 8 hours = 560 mg/m³ (100 ppm) Austria: imit value - short term = 560 mg/m³ (100 ppm) Denmark : limit value - 8 hours = 140 mg/m³ (25 ppm) Denmark : limit value - short term = 280 mg/m³ (50 ppm) Sweden: limit value - 8 hours = 150 mg/m³ (25 ppm) Sweden: limit value - short term = 300 mg/m³ (50 ppm)

- \cdot DNEL (Derived No-Effect Level): Workers Acute/short-term exposure Local effects dermal: 161 μ g/cm²
- · DNEL (Derived No-Effect Level): Workers Long-term exposure Systemic effects inhalation: 5.98 mg/m³
- · DNEL (Derived No-Effect Level): General population Acute/short-term exposure Local effects dermal: 81 µg/cm²
- DNEL (Derived No-Effect Level): General population Long-term exposure

Systemic effects - inhalation: 1.06 mg/m³

Systemic effects - oral: 0.31 mg/kg bw/day

- · PNEC (Predicted No-Effect Concentration) aqua (freshwater): 50 μg/L
- · PNEC (Predicted No-Effect Concentration) aqua (marine water): 5 µg/L
- · PNEC (Predicted No-Effect Concentration) Sewage Treatment Plant: 3.26 mg/L
- · PNEC (Predicted No-Effect Concentration) sediment (freshwater): 11.88 mg/kg sediment dw
- · PNEC (Predicted No-Effect Concentration) sediment (marine water): 1.19 mg/kg sediment dw
- · PNEC (Predicted No-Effect Concentration) soil: 2.48 mg/kg soil dw
- · PNEC (Predicted No-Effect Concentration) oral: 1.35 mg/kg food
- · Additional information:



Revision Date: 01-01-2019 Page 7 of 16

Version # 01 Print Date: 01-01-2019

This sheet is based on the current valid lists for occupational exposure limit values. The DNELs and PNECs values are derived from the chemical safety assessment conducted for REACH. Occupational exposure limits and DNELs are health-based but they are not necessarily set in the same way.

The primary duty is to comply with risk management measures which enable to limit exposures as

much as possible and to be in line with exposure reference levels.

(typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. 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). Face shield is recommended.

Skin protection

Hand protection Chemical resistant gloves.

Other Use of an impervious apron is recommended.

Respiratory protection Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must

be provided.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. Keep away from food and drink. 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.

Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Refer to Spec Sheet

Physical state Liquid.
Form Liquid.

Color Refer to Spec Sheet

Odor Characteristic.
Odor threshold Not available.
pH Not available.

Melting point/freezing point < -112 °F (< -80 °C)
Initial boiling point and boiling 338 °F (170 °C)

range

Flash point 117.0 °F (47.2 °C) Closed Cup

Evaporation rate Not available.
Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)



Revision Date: 01-01-2019 Page 8 of 16

Version # 01 Print Date: 01-01-2019

Flammability limit - upper

Not available.

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density 0.87 at 20 °C

Solubility(ies)

Solubility (water) 0 Insoluble

Partition coefficient $log Kow = 4.38 (37^{\circ}C)$

(n-octanol/water)

Auto-ignition temperature Not available.

Decomposition temperature Not available.

Viscosity < 7 mm2/s at 20 °C Kinematic

1.3 - 1.6 mm2/s at 25 °C Dynamic

Other information

Explosive properties

Not explosive.

Molecular formula

C10H16

Oxidizing properties

Not oxidizing.

10. STABILITY AND REACTIVITY

Reactivity The 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 Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

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 Prolonged inhalation may be harmful.

Skin contact Causes skin irritation. May cause an allergic skin reaction.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion May be harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or

vomiting may cause a serious chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis. Skin irritation. May cause redness and

pain. May cause an allergic skin reaction. Dermatitis. Rash.

Information on toxicological effects



Revision Date: 01-01-2019 Page 9 of 16

Version # 01 Print Date: 01-01-2019

Acute toxicity May be fatal if swallowed and enters airways.

Product Species Test Results

CARENE DELTA (CAS 13466-78-9)

Acute

Oral

LD50 Rat 4800 mg/kg

Additional components Species Test Results

CYMENE PARA (CAS 99-87-6)

Acute

Dermal

LD50 Rabbit > 5000 mg/kg

DIPENTENE (CAS 138-86-3)

Acute

Dermal

LD50 Rabbit 5 g/kg

Oral

LD50 Rat 5 g/kg

PINENE BETA (CAS 127-91-3)

Acute

Oral

LD50 Rat 4700 mg/kg

TERPINENE ALPHA (CAS 99-86-5)

Acute

Oral

LD50 Rat 1680 mg/kg

TERPINENE GAMMA (CAS 99-85-4)

Acute

Oral

LD50 Rat 3650 mg/kg

TERPINOLENE (CAS 586-62-9)

Acute

Dermal

LD50 Rat > 5 ml/kg

Oral

LD50 Rat 4390 mg/kg

Skin corrosion/irritation Causes skin irritation.

An in vitro irritation study on reconstructed human epidermis was conducted with the substance.

The classification criteria were met.



Revision Date: 01-01-2019 Page 10 of 16

Version # 01 Print Date: 01-01-2019

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

The substance is not classified as only reversible effects were observed in an eye irritation study

in rabbit (OECD 405).

Respiratory or skin sensitization

Respiratory sensitization

Not a respiratory sensitizer.

Skin sensitization May cause an allergic skin reaction.

Skin sensitization effects were observed with the substance in the Guinea Pig Maximisation Test

(GPMT - OECD 406), leading to the classification of the substance as skin sensitiser 1B.

Germ cell mutagenicity Results of tests conducted with the substance and structurally related substances show that

delta-3-carene has no genotoxic potential:

- no mutagenicity observed in the Ames test (OECD 471) with the substance and gum turpentine

oil (UVCN substance containing delta-3-carene),

- no genotoxicity observed in vitro in mammalian cells with gum turpentine oil (mammalian chromosome aberration test - OECD 473 and mammalian cell gene mutation test - OECD 476),

- no genotoxicity observed in vivo in mouse with alpha-pinene (erythrocyte micronucleus test -

OECD 474).

Carcinogenicity Based on a 90-day toxicity study in rat conducted with a structurally related substance

alpha-pinene, the substance is not expected to be carcinogenic for humans.

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

Based on available data from structurally related substances, no toxic effects for reproduction are

expected from delta-3-carene based on the following results:

- no effects were observed on reproductive organs in a 90-day inhalation repeated toxicity study in

rat, conducted with alpha-pinene;

- no effects were found in a teratogenicity/postnatal development study conducted in rat with an

UVCB substance (rowachol) containing delta-3-carene.

Specific target organ toxicity -

single exposure

No specific target organ toxicity was observed in the LD₅₀ determination studies.

Specific target organ toxicity -

repeated exposure

The substance is not classified based on results from a 90-day inhalation toxicity study conducted in mice with a structurally related substance alpha-pinene: NOAEC = 283.24 mg/m³ (effects on

urinary bladder).

Aspiration hazard May be fatal if swallowed and enters airways.

If swallowed accidentally, the product may enter the lungs due to its low viscosity.

Chronic effects Prolonged inhalation may be harmful.



Revision Date: 01-01-2019 Page 11 of 16

Version # 01 Print Date: 01-01-2019

12. ECOLOGICAL INFORMATION

Mobility in soil

Other adverse effects

Ecotoxicity Very toxic to aquatic life with long lasting effects.

No data available.

· Toxicity to aquatic microorganisms:

Sewage containing the substance can be treated by a municipal sewage treatment plant (taking

into account the PNEC sewage treatment plant given in section 8).

Product		Species	Test Results
CARENE DELTA (CAS 134	166-78-9)		
Aquatic			
Acute			
Crustacea	EC50	Daphnia magna	0.797 mg/l, 48 hours (measured concentration - OECD 202)
Additional components		Species	Test Results
CYMENE PARA (CAS 99-8	37-6)		
Other	EC50	Pseudokirchnerella subcapitata	5.8 mg/l, 72 hours
Aquatic			
Crustacea	LC50	Water flea (Daphnia magna)	> 4.3 - < 10 mg/l, 48 hours
Fish	LC50	Fish	2 mg/l, 96 hours (Oryzias latipes)
		Sheepshead minnow (Cyprinodon variegatus)	> 36 - < 64 mg/l, 96 hours
	NOEC	Sheepshead minnow (Cyprinodon variegatus)	10 mg/l, 96 hours
DIPENTENE (CAS 138-86-	-3)		
Aquatic			
Fish	LC50	Carp (Leuciscus idus melanotus)	34 mg/l, 48 hours
TERPINOLENE (CAS 586-	62-9)		
Aquatic			
Crustacea	LC50	Daphnia magna	2.55 mg/l, 48 h
Fish	LC50	Pimephales promelas	0.72 mg/l, 96 h
sistence and degradability	alpha-Pine Biodegrad conducted	odegradable [based on results from alpha-pene and beta-Pinene lation achieved in 28 days for both substand laccording to the OECD 301 D guideline - a ne substance is not considered to be very P	ces: 76% (oxygen consumption - assay activated sludge, domestic, non-adapted)
accumulative potential			ersistent and very bloaccumulative (vi vi
ooamulativo potential	i vo data a	No data available.	

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: 01-01-2019 Page 12 of 16

Version # 01 Print Date: 01-01-2019

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

ADN

UN number 2319

UN proper shipping name TERPENE HYDROCARBONS, N.O.S. (DELTA-3-CARENE)

Transport hazard class(es) 3
Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 3

ADR

UN number 2319

UN proper shipping name TERPENE HYDROCARBONS, N.O.S. (DELTA-3-CARENE)

Transport hazard class(es) 3
Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 3

RID

UN number 2319

UN proper shipping name TERPENE HYDROCARBONS, N.O.S. (DELTA-3-CARENE)

Transport hazard class(es) 3
Subsidiary class(es) Packing Group III
Environmental Hazards Yes
Labels required 3

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

DOT

BULK

UN number 2319

Proper shipping name TERPENE HYDROCARBONS, N.O.S. (DELTA-3-CARENE)

Hazard class 3
Packing group III



Revision Date: 01-01-2019 Page 13 of 16

Version # 01 Print Date: 01-01-2019

Environmental hazards

Marine pollutant Yes 150 Packaging exceptions Packaging bulk 242 Labels required 3

DOT

NON-BULK

Not regulated as dangerous goods.

IATA

UN number 2319

UN proper shipping name TERPENE HYDROCARBONS, N.O.S. (DELTA-3-CARENE)

Transport hazard class(es) 3 Subsidiary class(es) Ш Packing group **Environmental hazards** No Labels required 3

IMDG

UN number 2319

UN proper shipping name TERPENE HYDROCARBONS, N.O.S. (DELTA-3-CARENE)

Transport hazard class(es) 3 Subsidiary class(es) Packing group Ш

Environmental hazards

Marine pollutant Yes Labels required

Transport in bulk according

to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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





Revision Date: 01-01-2019 Page 14 of 16

Version # 01 Print Date: 01-01-2019

Marine pollutant



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 Acute toxicity (any route of exposure)

Skin corrosion or irritation Respiratory or skin sensitization

Aspiration hazard

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.

Safe Drinking Water Act

Not regulated.

(SDWA)



Revision Date: 01-01-2019 Page 15 of 16

Version # 01 Print Date: 01-01-2019

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
·	nents of this product comply with the inventory requirements administered by the gove components of the product are not listed or exempt from listing on the inventory administration.	• • • • • • • • • • • • • • • • • • • •

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

 Issue date
 11-01-2018

 Revision date
 11-01-2018

Version # 02

HMIS® ratings Health: 2*

Flammability: 2 Physical hazard: 0



Revision Date: 01-01-2019 Page 16 of 16

Version # 01 Print Date: 01-01-2019

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.