

HEALTH 2 FLAMMABILITY 2 REACTIVITY 0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product Name Delta-3-Carene, Natural

Product Number **0382100** CAS-No. **13466-78-9**

1.2 Product Recommended Use Flavorings

1.3 Preparation Information

Company Aurochemicals

7 Nicoll Street

Washingtonville, NY 10992- USA

Telephone 845-496-6065 Fax 845-496-6248

1.4 Emergency Telephone Number 1-800-535-5053

International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 3), H226 Skin irritation (Category 2), H315 Skin sensitisation (Category 1), H317 Aspiration hazard (Category 1), H304

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label Elements, Including precautionary statements

Pictogram



Signal Word Warning Hazard Statement(s) H226

H226 Flammable liquid and vapour

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Precautionary Statement(s) P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment

P241 Use explosion proof electrical/ventilating/lighting equipment



P242 P243	Use only non-sparking tools. Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/Physician
P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P331	Do NOT induce vomiting
P33+P313	If skin irritation or rash occurs: Get medical advice/ attention.
	Specific treatment (see supplemental first aid instructions on this
P313	label).
	If skin irritation occurs: Get medical advice/ attention.
P332+P313	Take off contaminated clothing and wash before reuse.
P362	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam
P370+P378	for extinction.
D400 D000	Store in a well-ventilated place. Keep container tightly closed.
P403 +P233	Store in a well-ventilated place. Keep cool. Store locked up.
P403 +P235	Dispose of contents/container to an approved waste disposal plant
P405	
P501	

2.3 HNOC (Hazards not otherwise classified or not covered by GHS

None

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Synonym 3,7,7-Trimethylbicyclo[4.1.0]hept-3-ene Formula : C10H16 Molecular weight : 136.23 g/mol

CAS-No.: 13466-78-9 EC-No.: 236-719-3

Hazardous Components

Component	Classification	Concentration
Delta 3-Carene		
	Flam. Liq. 3; Skin Irrit. 2; Skin Sens. 1; Asp. Tox. 1; H226, H304, H315, H317	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

Section 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out

of dangerous area.

Inhalation If breathed in, move person into fresh air. If not breathing, give artificial respiration.

3821 **Delta-3-Carene** Nat sds.doc Printed: August 10, 2022 Page 2 of 8



Consult a physician.

Contact with skin: Remove contaminated clothing. Rinse skin with cool water then wash with mild soap and

warm water.

Contact with eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion DO NOT induce vomiting. Never give anything by mouth to an unconscious person.

Rinse mouth with water.

Clothing contamination: Remove contaminated clothing and wash before reuse.

4.2 Most important symptoms and effects

both acute and delayed

See section 2.2 and or section 11

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

No data available

Section 5: FIREFIGHTING MEASURES

5.1 Extinguishing Media

Suitable Extinguishing Media For small (incipient) fires, use water spray, alcohol-resistant foam, dry chemical or

carbon dioxide.

5.2 Special hazards arising from the

substance or mixture

Carbon oxides

5.3 Advice for fire fighters Wear self contained breathing apparatus for firefighting if necessary.

5.4 Further information Use water spray to cool unopened containers.

Section 6: ACCIDENTIAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can

accumulate in low areas.

For personal protection see section 8.

6.2 Environmental precautions Prevent further leakage or spillage. I

Prevent further leakage or spillage. Discharge into the environment must be avoided. Do

not allow to enter drains or sewage system.

6.3 Methods and materials for containment

and clean up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see

section 13).

6.4 Reference to other sections

For disposal see section 13.

Section 7: HANDLING AND STORAGE

7.1 **Precautions for safe handling** Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build-

up of electrostatic charge.

3821 **Delta-3-Carene** Nat sds.doc Printed: August 10, 2022 Page 3 of 8

aurochemicals.com

Safety Data Sheet



For precautions see section 2.2.

7.2 Conditions for Safe storage Keep container tightly closed in a dry and well-ventilated place. Containers which are

opened must be carefully resealed and kept upright to prevent leakage.

Air sensitive. Handle under inert gas. Protect from moisture.

Storage class (TRGS 510): Flammable liquids.

Specific End use(s) Flavorings

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Delta 3 Carene	13466-78-9	TWA	20.000000 ppm	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respi Lung damag Skin irritatior Adopted valu are proposed	n ues or notations enclosed are tho d in the NIC See Notice of Intend ble as a human carcinogen	

8.2 Exposure Controls

Appropriate Engineering Controls

Handle in accordance with good industrial hygiene and safety practices. Wash hands

before breaks and at the end of the workday.

Personal protective equipment

These recommendations are advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situations of anticipated use by our customers. They should not be construed as offering an approval or any specific use scenario.

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact:

Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Splash contact:

Material: Nature latex/chloroprene Minimum layer thickness: 0.6 mm Break through time: 30 min

Material tested:Lapren® (KCL 706 / Aldrich Z677558, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is

Page 4 of 8

3821 **Delta-3-Carene** Nat sds.doc Printed: August 10, 2022



advisory only and must be evaluated by an industrial hygienist and safety officer familiar

with the specific situation of anticipated use by our customers. It should not be construed

as offering an approval for any specific use scenario.

Body protection
Complete suit protecting against chemicals, Flame retardant antistatic protective

clothing., The type of protective equipment must be selected according to the

concentration and amount of the dangerous substance

at the specific workplace..

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face

respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator

cartridges as a backup to engineering controls.

If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government

standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a Appearance Colorless to pale yellow liquid

b Odor Citrus sweet
c Odor Threshold No data available
d pH No data available

e Melting Point /Freezing Point <-79.99 °C at 1,013 hPa (760)mmHg) - OECD Test Guideline 102

f Initial boiling point and boiling range g Initial boiling range g Init

h Evaporation Rate No data available i Flammability (Solid, Gas) No data available j Upper/lower Flammability Limit No data available

k Vapor pressure 2.73 hPa (2.05 mmHg) at 20 °C (68 °F) - OECD Test Guideline 104

Vapor density No data available Relative density @25°C 0.860-0.868

n Water Solubility 0.0005 g/l at 20 °C (68 °F) - OECD Test Guideline 105 - slightly soluble

o Partition coefficient: n-octanol/water log Pow: 4.38 at 37 °C (99 °F) - OECD Test Guideline 117

p Auto-ignition Temp. 260 °C (500 °F) at 998 hPa (749 mmHg)

qDecomposition Temp,No data availablerViscosityNo data availablesExplosive propertiesNo data availabletOxidizing propertiesNo data available

9.2 Other Safety Information No data available

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity No data available

10.2 Chemical Stability Stable under recommended storage conditions

10.3 Possibility of Hazardous reactions No data available

10.4 Conditions to avoid Heat, flames and sparks.

3821 **Delta-3-Carene** Nat sds.doc Printed: August 10, 2022 Page 5 of 8



10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products Other decomposition products - No data available

In the event of fire: see section 5

10.7 Further Information No data available

Section 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity

LD50 Oral - Rat - 4,800 mg/kg

Skin corrosion/irritation No data available Serious eye damage/eye irritation Eyes - Rabbit

Result: No eye irritation (OECD Test Guideline 405)

Respiratory or skin sensitization Guinea pig

Result: May cause sensitisation by skin contact.

Germ Cell mutagenicity Ames test

S. typhimurium; Result: negative

Carcinogenicity

IARC No component of this product, present levels greater than or equal to 0.1% is identified

as probable, possible or confirmed human carcinogen by IARC.

ACGIH No component of this product, present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by ACGIH.

NTP No component of this product, present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

OSHA No component of this product, present at levels greater than or equal to 0.1% is

identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Teratogenicity

Specific target organ toxicity-single

exposure (GHS)

Specific target organ toxicity-repeated

exposures (GHS) Aspiration Hazards

expectation (CLIC)

.. ...

No data available

No data available No data available

No data available

No data available

Signs and Symptoms of Exposure Gastrointestinal disturbance, Nausea, Headache, Vomiting

To the best of our knowledge, the chemical, physical, and toxicological properties have

not been thoroughly investigated

Synergistic effects No data available

RTECS: Not available

Section 12: ECOLOGICAL INFORMATION



12.1 Toxicity No data available

12.2 Persistence and degradability aerobic - Exposure time 28 d

Result: 53 % - Not readily biodegradable.

(OECD Test Guideline 301B)

12.3 Bioaccumulative potential12.4 Mobility in soilNo data availableNo data available

12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required / not

conducted

12.6 Other adverse effects No data available

Section 13: DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra

care in igniting as this material is highly flammable. Offer surplus and non-recyclable

solutions to a licensed disposal company.

Packaging Dispose of as unused product

Section 14: TRANSPORT INFORMATION

DOT (US) UN number: 2319 Class: 3 Packing group: III

Proper shipping name: Terpene hydrocarbons, n.o.s.

Reportable Quantity (RQ): Poison Inhalation Hazard: No.

IMDG

UN number: 2319 Class: 3 Packing group: III EMS-No: F-E, S-D

Proper shipping name: TERPENE HYDROCARBONS, N.O.S.

IATA UN number: 2319 Class: 3 Packing group: III

Proper shipping name: Terpene hydrocarbons, n.o.s.

Section 15: REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III,

Section 302

SARA 313 Components This material does not contain any chemical components with known CAS numbers that

exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section

313.

SARA 311/312 Hazards Fire Hazard, Acute Health Hazard

Massachusetts Right to Know No components are subject to the Massachusetts Right to Know Act

components

Pennsylvania Right to Know components Delta 3-Carene CAS-No.13466-78-9 Revision Date:

New Jersey Right to Know components Delta 3-Carene CAS-No.13466-78-9 Revision Date:

California Prop. 65 components

This product does not contain any chemical known to the State of California to cause

cancer, birth defects, or any other reproductive harm.

Section 16: OTHER INFORMATION

3821 **Delta-3-Carene** Nat sds.doc Printed: August 10, 2022 Page 7 of 8

aurochemicals.com

Safety Data Sheet



Full text of H-Statements referred to under sections 2 and 3.

Asp. Tox. Aspiration hazard Flam. Lig. Flammable liquids

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

Skin Irrit. Skin irritation Skin Sens. Skin sensitisation

HMIS Rating

Health hazard: 2

Chronic Health Hazard:

Flammability: 2

Physical Hazard 0

NFPA Rating

Health hazard: 2 Fire Hazard: 2 Reactivity Hazard: 0

Further Information

Aurochemicals provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. Aurochemicals makes no representations or warranties, either expressed or implied, including without limitation any warranties of merchantability, fitness for a particular purpose with respect to the information set forth herein or the product to which the information refers. Accordingly, Aurochemicals will not be responsible, nor held liable, for damages resulting from use of or reliance upon this information.

Issued by:		Contact Person:
Aurochemicals		Deo N. Persaud
7 Nicoll Street	Revised Date:	8/10/2022
Washingtonville, NY 10992 USA		