



HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

Section 1: PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers Product Name Product Number CAS-No.

Terpinolene, Natural 0304600 586-62-9

Flavorings

- 1.2 Product Recommended Use
- **1.3 Preparation Information** Company

Aurochemicals 7 Nicoll Street Washingtonville, NY 10992- USA

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

1-800-535-5053

1.4 Emergency Telephone Number

International - 1-352-323-3500 collect

Section 2: HAZARD(s) IDENTIFICATION

2.1 Classification of substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Flammable liquids (Category 4), H227 Acute Toxicity, Oral (Category 5) H303 Aspiration Hazard (Category 1) H304 Skin Irritant (Category 3) H316 Skin sensation (Category 1B) H317 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

2.2 GHS Label Elements, Including precautionary statements Pictogram



Signal Statement Hazard Statement(s)

- H303 May be harmful if swallowed
- H304 May be fatal if swallowed and enters airways
- H316 Causes mild skin irritation
- H317 May cause an allergic skin reaction
- H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)



- P210 Keep away from heat/sparks/open flames/hot surfaces - No smoking
- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash hands thoroughly after handling
- Avoid release to the environment P273
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- Use personal protective equipment as required P281

4-isopropylidene-1-methylcyclohexend

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol resistant foam for extinction. P391 Collect spillage

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

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

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

Provide fresh air; keep at rest and at a comfortable position to breathe. Consult a

Rinse thoroughly with plenty of water for at least 15 minutes as a precaution.

P403+P235 Store in a well ventilated place. Keep cool

None

- Dispose of contents/container to an approved waste disposal plant. P501
- 2.3 **HNOC** (Hazards not otherwise classified or not covered by GHS

COMPOSITION / INFORMATION ON INGREDIENTS Section 3:

3.1 Substances

Formula

EC-No.

p-menth-1,4(8)-diene p-meth-1-en-8-yl-formate C10H16 Molecular Weight 136.23 g/mol CAS-No 586-62-9 209-578-0 **Hazardous Components** Component Classification p-menth-1,4(8)-diene Flammable liquids (4), H227 Acute Toxicity, Oral (5) H303 Aspiration Hazard (1) H304 Skin Irritant (3) H316 Skin sensation (1B) H317 Acute aquatic toxicity (1), H400 Chronic aquatic toxicity (1), H410 FIRST AID MEASURES

of dangerous area.

physician

Concentration

Section 4:

4.1 Description of first aid measures General Advice

Inhalation

Contact with skin:

Contact with eves: Ingestion

Clothing contamination:

- 4.2 Most important symptoms and effects both acute and delayed
- Indication of any immediate medical 4.3 attention and special treatment needed.

No data available

warm water. Consult a physician

See section 2.2 and or section 11

Rinse mouth with water. Consult a physician.

Remove contaminated clothing and wash before reuse.



Section 5: FIREFIGHTING MEASURES

5.1	Extinguishing Media	
	Suitable Extinguishing Media	For small (incipient) fires, use media such as alcohol resistant foam, dry chemical or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray, solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
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. Emits toxic fumes under fire conditions.
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 vapors. Mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.
6.2	Environment precautions	Prevent further leakage or spillage if safe to do so. Do not allow to enter drains or sewage system. Discharge into the environment must be avoided.
6.3	Methods and materials for containment and clean up	Contain spillage. Wet Sweep up with broom and place in a suitable, closed container for disposal.
6.4	Specific end use(s)	Apart from the uses mentioned in section 1.2, no other specific uses are stipulated.
Sect	tion 7: HANDLING AND STORAG	E
7.1	Precautions for safe handling	Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition-No smoking. Take measures to prevent the buildup of electrostatic charge.
7.2	Conditions for Safe storage	Keep container tightly closed in a dry, cool and well-ventilated place. Containers which have been opened must be carefully resealed and kept upright to prevent leakage.
7.3	Specific End use(s)	Flavorings
Sect	tion 8: EXPOSURE CONTROLS/P	ERSONAL PROTECTION
8.1 Control parameters Components with workplace control parameters- Contains no components with workplace control limits		
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	Safety glasses with side shields conforming to EN 166. Use equipment for eye protection tested and approved under appropriate government standards such as





NIOSH (US) or EN 166 (EU).

Skin protection	Wear chemically resistant Nitrile rubber gloves, 0.4mm. Use proper glove removal techniques (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands.
Body protection	Complete suit protecting against chemicals should be selected specifically for the work place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier
Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate, use a full face respirator with multi-purpose combination (U) 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 faced supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (U) or CEN (EU).
Control of environmental exposure	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

PHYSICAL AND CHEMICAL PROPERTIES Section 9:

9.1 Information on basic physical and chemical properties

Clear, pale yellow liquid, Appearance а b Odor Pine Odor Threshold No data available С pН No data available d No data available е Melting Point /Freezing Point Boiling Point f 184-185oC g Flash Point 64oC closed cup h Evaporation Rate No data available i. Flammability (Solid, Gas) No data available Upper/lower Flammability Limit No data available i Vapor pressure 0.7 hPa at 20oC k Vapor density 5.46 L Relative density @25°C 0.857-0.870 m Soluble in alcohol Solubility n Partition coefficient: n-octanol/water No data available 0 Auto-ignition Temp. No data available р Decomposition Temp, No data available q No data available r Viscosity Explosive properties No data available s Oxidizing properties No data available t 9.2 **Other Safety Information** No data available

Section 10: **STABILITY AND REACTIVITY**

Possibility of Hazardous reactions

10.1 Reactivity **Chemical Stability**

10.2

10.3

10.4

No data available Stable under recommended storage conditions No data available Heat, Flames and Sparks

Conditions to avoid

Hazardous decomposition products

Incompatible materials

Further Information

10.5 10.6

10.7



Section	on 11: TOXICOLOGICAL INI	ORMATION
Section 11.1	Information on toxicological effect Acute Toxicity LD50-Oral- Rat LC50-Inhalation LD50-Dermal-Rabbit Skin corrosion/irritation Serious eye damage/eye irritation Respiratory or skin sensitization Germ Cell mutagenicity Carcinogenicity	 4,390 mg/kg No data available No data available No data available No data available No data available No data available ARC 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. CGIH 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. SHA No component of this product, present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. SHA 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. No data available No data available No data available No data available No data available No data available
	exposures (GHS) Aspiration Hazards Signs and Symptoms of Exposure Synergistic effects RTECS:	No data available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated No data available WZ6870000
Section	on 12: ECOLOGICAL INFOR	MATION
12.1	Toxicity	<u>To Fish:</u> LC-50- Pimephales promelas (fathead minnow) – 0.72 mg/l -96 hr
12.2	Persistence and degradability	Biodegradability: Biotic/Aerobic Result: 51% - Partially biodegradable
12.3 12.4 12.5	Bioaccumulative potential Mobility in soil Results of PBT and vPvB assessm	No data available No data available ent PBT/vPvB assessment not available as chemical safety assessment not required / not conducted
12.6	Other adverse effects	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life. Avoid release to the environment.

No data available

No data available

No data available

Section 13:

13.1

DISPOSAL CONSIDERATIONS



Disposal methods Product: According to local regulations Packaging According to local regulations Section 14: TRANSPORT INFORMATION DOT (US) UN Number: 2541 Class: 3 Packing Group III Proper Shipping Name Terpinolene Reportable Quantity (RQ) No Marine pollutant No Poison Inhalation Hazard No IMDG UN Number: 2541 Class: 3 Packing Group III EMS-No: F-E, S-D **TERPINOLENE Proper Shipping Name** Marine Pollutant No IATA UN Number: 2541 Class: 3 Packing Group III Proper Shipping Name Terpinolene **REGULATORY INFORMATION** Section 15: 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 Massachusetts Right to Know No components are subject to the Massachusetts Right to Know Act components Pennsylvania Right to Know components p-mentha-1,4(8)-diene CAS# 586-62-9 Rev. Date: 3/1/2007 New Jersey Right to Know components p-mentha-1,4(8)-diene CAS# 586-62-9 Rev. Date: 3/1/2007 California Prop. 65 components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm. Section 16: OTHER INFORMATION

HMIS Rating

Health hazard 1 Chronic Health Hazard Flammability 2 **Reactive Hazard** Λ

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





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