



## Safety Data Sheet

Material Name: DAIKEN TERPENE

SDS ID: 89033

### \*\*\* Section 1 - Identification \*\*\*

**Product Identifier**

DAIKEN TERPENE

**Synonyms**

None

**Recommended Use**

If this product is used in combination with other products, refer to the Safety Data Sheet for those products.

**Restrictions on Use**

None known.

**Manufacturer Information**

Clean Harbors Recycling Services of Chicago, LLC  
1445 W. 42nd Street  
Chicago, IL 60609

Phone: 773-247-2828  
www.cleanharbors.com  
Emergency # 1-800-645-8265

**Issue Date**

November 12, 2018

**Supersedes Issue Date**

May 19, 2015

**Original Issue Date**

September 29, 2010

### \*\*\* Section 2 - Hazard(s) Identification \*\*\*

**Classification in Accordance with 29 CFR 1910.1200.**

Flammable Liquids, Category 3  
Serious Eye Damage/Eye Irritation, Category 2B  
Hazardous to the aquatic environment - chronic hazard, Category 3

**GHS LABEL ELEMENTS****Symbol(s)****Signal Word**

WARNING!

**Hazard Statement(s)**

Flammable liquid and vapor  
Causes eye irritation  
Harmful to aquatic life with long lasting effects.

**Precautionary Statement(s)****Prevention**

Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye/face protection. Wash thoroughly after handling. Avoid release to the environment.

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## Response

In case of fire, carbon dioxide, regular foam, dry chemical, water spray, or water fog IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

## Storage

Store in a well-ventilated place. Keep cool.

## Disposal

Dispose in accordance with all applicable regulations.

## Hazard(s) Not Otherwise Classified

None known.

### \*\*\* Section 3 - Composition / Information on Ingredients \*\*\*

CAS	Component	Percent
68956-56-9	Dipentene	>95
98-55-5	$\alpha$ -Terpineol	<5

### \*\*\* Section 4 - First Aid Measures \*\*\*

#### Description of Necessary Measures

##### Inhalation

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

##### Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

##### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

##### Ingestion

Do NOT induce vomiting. Get immediate medical attention. If vomiting occurs, keep head lower than hips to help prevent aspiration. Never give anything by mouth to an unconscious person.

#### Most Important Symptoms/Effects

##### Acute

Eye irritation.

##### Delayed

No information on significant adverse effects.

#### Indication of Immediate Medical Attention and Special Treatment Needed, If Needed

Treat symptomatically and supportively. Do not administer Adrenaline (epinephrine) or similar drugs following product overexposure. Increased sensitivity of the heart to such drugs may be caused by overexposure to product. Administration of gastric lavage and/or activated charcoal slurry, if warranted, should be performed by qualified medical personnel. Treatment may vary with condition of victim and specifics of incident. Call 1-800-645-8265 for additional information.

### \*\*\* Section 5 - Fire-Fighting Measures \*\*\*

#### Suitable Extinguishing Media

Carbon dioxide, regular foam, dry chemical, water spray, or water fog.

#### Unsuitable Extinguishing Media

Do not scatter spilled material with high-pressure water streams.

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## Specific Hazards Arising from the Chemical

Flammable liquid and vapor. Vapors or gases may ignite at distant ignition sources and flash back. Heated containers may rupture. "Empty" containers may retain residue and can be dangerous.

## Hazardous Combustion Products

Decomposition and combustion materials may be toxic. Burning may produce carbon monoxide and unidentified organic compounds.

## Special Protective Equipment and Precautions for Firefighters

A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies.

## Fire Fighting Measures

Move container from fire area if it can be done without risk. Heated containers may rupture or be thrown into the air. Keep storage containers cool with water spray.

## \*\*\* Section 6 - Accidental Release Measures \*\*\*

### Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment, see Section 8. Avoid release to the environment.

### Methods and Materials for Containment and Clean Up

Do not touch or walk through spilled product. Stop leak if you can do it without risk. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor or mist. Contain spill away from surface water and sewers. Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean, spark proof tool into a sealable container for disposal.

Additionally, for large spills: Dike far ahead of liquid spill for collection and later disposal.

There may be specific federal regulatory reporting requirements associated with spills, leaks, or releases of this product.

Also see **SECTION 15: REGULATORY INFORMATION**.

## \*\*\* Section 7 - Handling and Storage \*\*\*

### Precautions for Safe Handling

Keep away from heat, sparks, or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean, sparkproof tools and explosion-proof equipment. When transferring product, metal containers, including trucks and tank cars, should be grounded and bonded. Do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes. Do not smoke while using these products.

### Conditions for Safe Storage, Including Any Incompatibilities

Store in a well-ventilated place. Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Empty product containers may retain product residue and can be dangerous.

See **SECTION 14: TRANSPORTATION INFORMATION** for Packing Group information.

### Incompatibilities

Avoid oxidizing agents.

## \*\*\* Section 8 - Exposure Controls / Personal Protection \*\*\*

### Component Exposure Limits

ACGIH, OSHA, and NIOSH have not developed exposure limits for any of this product's components.

### Appropriate Engineering Controls

Provide general ventilation. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls.

### Individual Protective Measures, such as Personal Protective Equipment

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to regulatory requirements. The following PPE should be considered the minimum required: Gloves, Safety glasses, and Lab coat or apron.

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## Eyes/Face Protection

Wear safety glasses. Additional protection like goggles, face shields, or respirators may be needed dependent upon anticipated use and concentrations of mists or vapors. Eye wash fountain and emergency showers are recommended. Contact lens use is not recommended.

## Skin Protection

Where skin contact is likely, wear laminate or equivalent protective gloves; use of natural rubber (latex) or equivalent gloves is not recommended. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, whole body suits, or other protective clothing.

## Respiratory Protection

A respiratory protection program which meets USA's OSHA General Industry Standard 29 CFR 1910.134 or Canada's CSA Standard Z94.4-M1982 requirements must be followed whenever workplace conditions warrant a respirator's use. Consult a qualified Industrial Hygienist or Safety Professional for respirator selection guidance.

## \*\*\* Section 9 - Physical & Chemical Properties \*\*\*

<b>Appearance/Odor :</b>	clear liquid, pine odor	<b>pH:</b>	Not applicable
<b>Odor Threshold:</b>	Not available	<b>Boiling Point:</b>	165 °C (329 °F)
<b>Melting Point:</b>	Not available	<b>Solubility (H<sub>2</sub>O):</b>	Slightly soluble
<b>Specific Gravity:</b>	0.85 at 20 °C	<b>Density:</b>	Not available
<b>Octanol/H<sub>2</sub>O Coeff.:</b>	Not available	<b>Evaporation Rate:</b>	Not available
<b>Auto Ignition Temperature:</b>	236.7 °C (458 °F)	<b>LFL:</b>	Not applicable
<b>Flash Point:</b>	47.2 °C (117 °F)	<b>UFL:</b>	Not applicable
<b>Viscosity:</b>	Not available	<b>Vapor Pressure:</b>	3 mm Hg at 20 °C
<b>Vapor Density:</b>	4.7 (air = 1)	<b>Freezing Point:</b>	Not available
<b>Flash Point Method:</b>	Not available	<b>Flammability (solid, gas):</b>	Not applicable

## \*\*\* Section 10 - Stability & Reactivity \*\*\*

### Reactivity

No reactivity hazard is expected.

### Chemical Stability

Stable under normal temperatures and pressures.

### Possibility of Hazardous Reactions

Polymerization is not known to occur under normal temperature and pressures.

### Conditions To Avoid

Avoid heat, sparks or flame when not in use. Avoid contact with incompatible materials.

### Incompatible Materials

Avoid oxidizing agents.

### Hazardous Decomposition Products

None under normal temperatures and pressures.

## \*\*\* Section 11 - Toxicological Information \*\*\*

### Information on Likely Routes of Exposure

#### Inhalation

Irritation, nausea, vomiting, headache, drowsiness, dizziness, disorientation, loss of coordination

#### Skin Contact

Skin irritation, drying

#### Eye Contact

Eye irritation, redness, blurred vision, tearing

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## Ingestion

Nausea, vomiting, headache, drowsiness, dizziness, loss of coordination

## Acute and Chronic Toxicity

### Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

#### .alpha.-Terpineol (98-55-5)

Oral LD50 Rat 5170 mg/kg

## Product Toxicity Data

### Acute Toxicity Estimate

No data available.

### Immediate Effects

Eye irritation

### Delayed Effects

No information on significant adverse effects.

### Irritation/Corrosivity Data

Eye irritation

### Respiratory Sensitization

Based on best current information, there is no known human sensitization associated with this product.

### Dermal Sensitization

Based on best current information, there is no known human sensitization associated with this product.

### Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

### Germ Cell Mutagenicity

No information available for the product.

### Tumorigenic Data

No data available

### Reproductive Toxicity

No information available for the product.

### Specific Target Organ Toxicity - Single Exposure

No target organs identified.

### Specific Target Organ Toxicity - Repeated Exposure

No target organs identified.

### Aspiration hazard

No data available for this product.

### Medical Conditions Aggravated by Exposure

Skin disorders and allergies

### Additional Data

No additional information is available.

## \* \* \* Section 12 - Ecological Information \* \* \*

### Ecotoxicity

Harmful to aquatic life with long lasting effects.

### Component Analysis - Ecotoxicity - Aquatic Toxicity

Not available.

### Persistence and Degradability

No information available for the product.

### Bioaccumulation Potential

No information available for the product.

### Mobility in Soil

No information available for the product.

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## Other Adverse Effects

No additional information is available.

### \*\*\* Section 13 - Disposal Considerations \*\*\*

#### Disposal Methods

Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Clean Harbors regarding proper recycling or disposal.

D001. Based on available data, this information applies to the product as supplied to the user. Processing, use, or contamination by the user may change the waste code applicable to the disposal of this product.

### \*\*\* Section 14 - Transport Information \*\*\*

#### US DOT Information:

Shipping Name: DIPENTENE

Hazard Class: 3

UN/NA #: UN2052

Packing Group: III

Required Label(s): 3

#### IATA Information:

Shipping Name: DIPENTENE

Hazard Class: 3

UN#: UN2052

Packing Group: III

Required Label(s): 3

#### IMDG Information:

Shipping Name: DIPENTENE

Hazard Class: 3

UN#: UN2052

Packing Group: III

Required Label(s): 3 P

#### TDG Information:

Shipping Name: DIPENTENE

Hazard Class: 3

UN#: UN2052

Packing Group: III

Required Label(s): 3

#### International Bulk Chemical Code

This material does not contain any chemicals required by the IBC Code to be identified as dangerous chemicals in bulk.

#### Further information

128 Reference. North American Emergency Response Guidebook

### \*\*\* Section 15 - Regulatory Information \*\*\*

#### U.S. Federal Regulations

None of this product's components are listed under SARA Sections 302/304 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

#### SARA Section 311/312 (40 CFR 370 Subparts B and C) reporting categories

Flammable; Serious Eye Damage/Eye Irritation

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**U.S. State Regulations**

None of this product's components are listed on the state lists from CA, MA, MN, NJ or PA.

**California Safe Drinking Water and Toxic Enforcement Act (Proposition 65)**

Not listed under California Proposition 65.

**Canada Regulations**

**Canadian WHMIS Ingredient Disclosure List (IDL)**

The components of this product are either not listed on the IDL or are present below the threshold limit listed on the IDL.

**WHMIS Classification**

B3, D2B

**Component Analysis - Inventory**

**Dipentene (68956-56-9)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	No	No	Yes	No	No	Yes	Yes	No	Yes	Yes

**.alpha.-Terpineol (98-55-5)**

US	CA	EU	AU	PH	JP - ENCS	JP - ISHL	KR KECI - Annex 1	KR KECI - Annex 2	KR - REACH CCA	CN	NZ	MX	TW	VN (Draft)
Yes	DSL	EIN	Yes	Yes	Yes	Yes	Yes	No	No	Yes	Yes	Yes	Yes	Yes

**\*\*\* Section 16 - Other Information \*\*\***

**NFPA Ratings: Health: 2 Fire: 2 Reactivity: 0**

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

**Revision Information**

2018-11: Regulatory review and update.

**Key/Legend**

ACGIH - American Conference of Governmental Industrial Hygienists; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

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### Disclaimer

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Clean Harbors assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, fmerchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to the information or the product to which the information refers. The data contained on this sheet apply to the product as supplied to the user.

End of Sheet 89033