



## SAFETY DATA SHEET

### TidyPen

According to Appendix D, OSHA Hazard Communication Standard 29 CFR §1910.1200

#### 1. Identification

##### Product identifier

**Product name** TidyPen  
**Product number** MCC-P01, MCC-L80881, MCC-PEN  
**Synonyms; trade names** Terpene Hydrocarbons (d-Limonene)

##### Recommended use of the chemical and restrictions on use

**Application** Cleaning agent.

##### Details of the supplier of the safety data sheet

**Supplier** MICROCARE CORPORATION  
**Manufacturer** MICROCARE CORPORATION  
595 John Downey Drive  
New Britain, CT 06051  
United States of America  
CAGE: OATV9  
Tel: + 1 800 638 0125, +1 860-827-0626  
Fax: +1 860-827-8105  
techsupport@microcare.com

##### Emergency telephone number

**Emergency telephone** CHEMTREC 1-800-424-9300 (within the U.S.)  
+1 703-741-5970 (from anywhere in the world)

#### 2. Hazard(s) identification

##### Classification of the substance or mixture

**OSHA Regulatory Status** This Product is Hazardous under the OSHA Hazard Communication Standard.  
**Physical hazards** Flam. Liq. 3 - H226  
**Health hazards** Skin Irrit. 2 - H315 Skin Sens. 1 - H317  
**Environmental hazards** Aquatic Chronic 1 - H410

**Human health** See Section 11 for additional information on health hazards.

**Physicochemical** Vapors may form explosive mixtures with air.

##### Label elements

##### Pictogram



## TidyPen

<b>Signal word</b>	Warning
<b>Hazard statements</b>	H226 Flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.
<b>Precautionary statements</b>	P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking. P261 Avoid breathing vapor/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 If on skin: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P501 Dispose of contents/ container in accordance with national regulations.
<b>Supplemental label information</b>	Safety data sheet available on request. For use in industrial installations only.
<b>Contains</b>	d-LIMONENE

### Other hazards

This product does not contain any substances classified as PBT or vPvB.

### 3. Composition/information on ingredients

#### Mixtures

<b>d-LIMONENE</b>	<b>60-100%</b>
CAS number: 5989-27-5	
M factor (Chronic) = 1	
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 1 - H410	

The full text for all hazard statements is displayed in Section 16.

<b>Composition comments</b>	TSCA: The ingredients of this product are on the TSCA Inventory. The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of CFR 1900.1200
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#### Composition

### 4. First-aid measures

#### Description of first aid measures

<b>General information</b>	Not considered to be a significant hazard due to the small quantities used. Move affected person to fresh air at once. Get medical attention if any discomfort continues.
<b>Inhalation</b>	Move affected person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep affected person warm and at rest. Get medical attention immediately.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth thoroughly with water. Give plenty of water to drink. Never give anything by mouth to an unconscious person. Consult a physician for specific advice.
<b>Skin Contact</b>	Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

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**Eye contact** Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### Most important symptoms and effects, both acute and delayed

**General information** The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

**Inhalation** Vapours may cause drowsiness and dizziness. Headache. Irritation of nose, throat and airway.

**Ingestion** Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.

**Skin contact** Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause skin irritation/eczema.

**Eye contact** May cause temporary eye irritation. Irritating to eyes. Symptoms following overexposure may include the following: Redness. Pain.

### Indication of immediate medical attention and special treatment needed

**Notes for the doctor** No specific recommendations. If in doubt, get medical attention promptly.

## **5. Fire-fighting measures**

### Extinguishing media

**Suitable extinguishing media** Extinguish with the following media: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

### Special hazards arising from the substance or mixture

**Specific hazards** Considering the size of the packaging, the risk is regarded as minimal. Combustible liquid.

**Hazardous combustion products** Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Oxides of carbon.

### Advice for firefighters

**Protective actions during firefighting** Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapors.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **6. Accidental release measures**

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Considering the size of the packaging, the risk is regarded as minimal. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation.

### Environmental precautions

**Environmental precautions** Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material.

### Methods and material for containment and cleaning up

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### Methods for cleaning up

Considering the size of the packaging, the risk is regarded as minimal. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely.

### Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards.

## 7. Handling and storage

### Precautions for safe handling

#### Usage precautions

Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapors. Use approved respirator if air contamination is above an acceptable level. Storage tanks and other containers must be grounded. Static electricity and formation of sparks must be prevented. Ground and bond containers when transferring material.

### Conditions for safe storage, including any incompatibilities

#### Storage precautions

Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks and open flame. Keep out of the reach of children.

### Specific end uses(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.

### Reference to other sections.

Store away from incompatible materials (see Section 10).

## 8. Exposure Controls/personal protection

### Control parameters

### Occupational exposure limits

### Additional Occupational Exposure Limits

### Ingredient comments

WEL = Workplace Exposure Limits

### Exposure controls

### Protective equipment



### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

### Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

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<b>Hand protection</b>	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Nitrile rubber. Polyvinyl alcohol (PVA). Viton rubber (fluoro rubber). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.
<b>Other skin and body protection</b>	Neutral
<b>Hygiene measures</b>	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.
<b>Respiratory protection</b>	No specific recommendations. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

### 9. Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Color</b>	Colorless to pale yellow.
<b>Odor</b>	Characteristic. Orange.
<b>Odor threshold</b>	No information available.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	169 - 187°C/340 - 372°F @ 101.3 kPa
<b>Flash point</b>	47°C/117°F Method: TCC (Tag closed cup).
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 0.7 Upper flammable/explosive limit: 6.0
<b>Vapor pressure</b>	0.213 kPa @ 25°C
<b>Vapor density</b>	4.6
<b>Relative density</b>	0.85 @ unspecified°F
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	235°C/458°F
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Refractive index</b>	No information available.
<b>Particle size</b>	Not applicable.
<b>Molecular weight</b>	No information available.
<b>Volatility</b>	100%

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<b>Saturation concentration</b>	No information available.
<b>Critical temperature</b>	No information available.
<b>Volatile organic compound</b>	This product contains a maximum VOC content of 840 g/l.
<b>Flammability</b>	The product is flammable.

### 10. Stability and reactivity

<b>Reactivity</b>	There are no known reactivity hazards associated with this product.
<b>Stability</b>	Stable at normal ambient temperatures.
<b>Possibility of hazardous reactions</b>	Will not polymerize.
<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Avoid contact with the following materials: Strong oxidizing agents. Strong alkalis. Strong mineral acids.
<b>Materials to avoid</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO <sub>2</sub> ).

### 11. Toxicological information

#### Information on toxicological effects

<b>Toxicological effects</b>	This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
<b>Other health effects</b>	There is no evidence that the product can cause cancer.
<b>Inhalation</b>	May cause respiratory system irritation. Vapors may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed. This product has low toxicity. Only large quantities are likely to have adverse effects on human health.
<b>Skin Contact</b>	Product has a defatting effect on skin. May cause skin irritation/eczema.
<b>Eye contact</b>	Irritating to eyes. Liquid, aerosols and vapors of this product are irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation and/or a feeling like that of fine dust in the eyes.
<b>Route of entry</b>	Skin and/or eye contact Ingestion. Inhalation
<b>Target Organs</b>	Skin Eyes Respiratory system, lungs
<b>Medical Symptoms</b>	Skin irritation. Gas or vapor in high concentrations may irritate the respiratory system. Symptoms following overexposure may include the following: Headache. Fatigue. Nausea, vomiting.

#### Toxicological information on ingredients.

#### d-LIMONENE

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub>) 5,000.0  
mg/kg)

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<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	5,000.0
<u><b>Acute toxicity - dermal</b></u>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rabbit
<b>ATE dermal (mg/kg)</b>	5,000.0
<u><b>Acute toxicity - inhalation</b></u>	
<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	1,000.0
<b>ATE inhalation (vapours mg/l)</b>	1,000.0
<u><b>Carcinogenicity</b></u>	
<b>IARC carcinogenicity</b>	IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### 12. Ecological Information

**Ecotoxicity** Not considered to be a significant hazard due to the small quantities used.

**Toxicity** Very toxic to aquatic organisms.

#### Ecological information on ingredients.

##### **d-LIMONENE**

<b>Acute toxicity - fish</b>	EC <sub>50</sub> , 96 hours: 0.69 mg/l, Pimephales promelas (Fat-head Minnow)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.42 mg/l, Daphnia magna
<u><b>Chronic aquatic toxicity</b></u>	
<b>M factor (Chronic)</b>	1

#### Persistence and degradability

**Persistence and degradability** The product is readily biodegradable.

#### Ecological information on ingredients.

##### **d-LIMONENE**

<b>Persistence and degradability</b>	The product is more than 80% biodegradable.
<b>Biodegradation</b>	- Degradation 92.7: 21 days

#### Bioaccumulative potential

**Bio-Accumulative Potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

#### Ecological information on ingredients.

##### **d-LIMONENE**

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**Partition coefficient** No information available.

### Mobility in soil

**Mobility** The product is partly miscible with water and may spread in the aquatic environment.

### Other adverse effects

**Other adverse effects** The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

## 13. Disposal considerations

### Waste treatment methods

**General information** Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Waste is suitable for incineration. When handling waste, the safety precautions applying to handling of the product should be considered.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Reuse or recycle products wherever possible.

## 14. Transport information

**DOT transport notes** As supplied, this product is consigned under the Limited Quantities provisions.

### UN Number

**UN No. (IMDG)** 2319

**UN No. (ICAO)** 2319

### UN proper shipping name

**Proper shipping name (TDG)** LIMITED QUANTITY

**Proper shipping name (IMDG)** UN2319, Terpene Hydrocarbons N.O.S. (d-Limonene), 3, PG III, LIMITED QUANTITY

**Proper shipping name (ICAO)** UN2319, Terpene Hydrocarbons N.O.S. (d-Limonene), 3, PG III, LIMITED QUANTITY

**Proper shipping name (DOT)** LIMITED QUANTITY

### Transport hazard class(es)

**IMDG Class** 3

### Packing group

**IMDG packing group** III

### Environmental hazards

**Environmentally Hazardous Substance**



### Special precautions for user

**EmS** F-E, S-E

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable. No information required.



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### 15. Regulatory information

#### US Federal Regulations

##### **SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities**

Not listed.

##### **CERCLA/Superfund, Hazardous Substances/Reportable Quantities (EPA)**

Not listed.

##### **SARA Extremely Hazardous Substances EPCRA Reportable Quantities**

Not listed.

##### **SARA 313 Emission Reporting**

Not listed.

##### **CAA Accidental Release Prevention**

Not listed.

##### **SARA (311/312) Hazard Categories**

Fire

##### **OSHA Highly Hazardous Chemicals**

Not listed.

#### US State Regulations

##### **State Regulations Comments** NOT FOR SALE IN CALIFORNIA

##### **California Proposition 65 Carcinogens and Reproductive Toxins**

Not listed.

##### **California Air Toxics "Hot Spots" (A-I)**

Not listed.

##### **California Air Toxics "Hot Spots" (A-II)**

Not listed.

##### **California Directors List of Hazardous Substances**

Not listed.

##### **Massachusetts "Right To Know" List**

Not listed.

##### **Rhode Island "Right To Know" List**

Not listed.

##### **Minnesota "Right To Know" List**

Not listed.

##### **New Jersey "Right To Know" List**

Not listed.

##### **Pennsylvania "Right To Know" List**

Not listed.

#### Inventories

##### **Canada - DSL/NDSL**

DSL

## TidyPen

### US - TSCA

Yes

#### 16. Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	1/5/2018
<b>Revision</b>	35
<b>Supersedes date</b>	1/5/2018
<b>SDS No.</b>	BULK - PEN
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H226 Flammable liquid and vapor. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H410 Very toxic to aquatic life with long lasting effects.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.