



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

| | |
|---------------------------------------|--|
| Signal word | Warning |
| Hazard statements | 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. |
| Precautionary statements | 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. |
| Supplemental label information | Safety data sheet available on request. For use in industrial installations only. |
| Contains | d-LIMONENE |

Other hazards

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

3. Composition/information on ingredients

Mixtures

| | |
|--------------------------|----------------|
| d-LIMONENE | 60-100% |
| CAS number: 5989-27-5 | |
| M factor (Chronic) = 1 | |
| Classification | |
| 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.

Composition comments 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

Composition

4. First-aid measures

Description of first aid measures

| | |
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| General information | 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. |
| Inhalation | 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. |
| Ingestion | 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. |
| Skin Contact | Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues. |

TidyPen

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

TidyPen

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. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

TidyPen

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| Hand protection | 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. |
| Other skin and body protection | Neutral |
| Hygiene measures | 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. |
| Respiratory protection | 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

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

TidyPen

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

10. Stability and reactivity

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

11. Toxicological information

Information on toxicological effects

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|------------------------------|---|
| Toxicological effects | This product has low toxicity. Only large quantities are likely to have adverse effects on human health. |
| Other health effects | There is no evidence that the product can cause cancer. |
| Inhalation | May cause respiratory system irritation. Vapors may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system. |
| Ingestion | May cause discomfort if swallowed. This product has low toxicity. Only large quantities are likely to have adverse effects on human health. |
| Skin Contact | Product has a defatting effect on skin. May cause skin irritation/eczema. |
| Eye contact | 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. |
| Route of entry | Skin and/or eye contact Ingestion. Inhalation |
| Target Organs | Skin Eyes Respiratory system, lungs |
| Medical Symptoms | 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 (LD₅₀) 5,000.0
mg/kg)

TidyPen

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|---|--|
| Species | Rat |
| ATE oral (mg/kg) | 5,000.0 |
| <u>Acute toxicity - dermal</u> | |
| Acute toxicity dermal (LD₅₀ mg/kg) | 5,000.0 |
| Species | Rabbit |
| ATE dermal (mg/kg) | 5,000.0 |
| <u>Acute toxicity - inhalation</u> | |
| Acute toxicity inhalation (LC₅₀ vapours mg/l) | 1,000.0 |
| ATE inhalation (vapours mg/l) | 1,000.0 |
| <u>Carcinogenicity</u> | |
| IARC carcinogenicity | 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

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

Persistence and degradability

Persistence and degradability The product is readily biodegradable.

Ecological information on ingredients.

d-LIMONENE

| | |
|--------------------------------------|---|
| Persistence and degradability | The product is more than 80% biodegradable. |
| Biodegradation | - 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

TidyPen

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.

TidyPen

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

| | |
|----------------------------------|---|
| Revision comments | NOTE: Lines within the margin indicate significant changes from the previous revision. |
| Revision date | 1/5/2018 |
| Revision | 35 |
| Supersedes date | 1/5/2018 |
| SDS No. | BULK - PEN |
| SDS status | Approved. |
| Hazard statements in full | 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.