



## SAFETY DATA SHEET

### TidyPen2

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

#### 1. Identification

##### Product identifier

**Product name** TidyPen2

**Product number** MCC-P02D, MCC-P02, MCC-PEN2

**Internal identification** Prototype 7-100-7

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

**Application** Cleaning agent. For use in industrial installations only.

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

**Supplier** MicroCare Corporation  
595 John Downey Drive  
New Britain, CT 06051  
United States of America  
CAGE: OATV9  
Tel: +1 860-827-0626  
Fax: +1 860-893-1930  
techsupport@microcare.com

**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: +1 860-893-1930  
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** Not Classified

**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2A - H319 Skin Sens. 1 - H317 Asp. Tox. 1 - H304

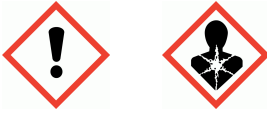
**Human health** See Section 11 for additional information on health hazards.

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

**Label elements**

## TidyPen2

### Hazard symbols



### Signal word

Danger

### Hazard statements

H315 Causes skin irritation.  
 H319 Causes serious eye irritation.  
 H317 May cause an allergic skin reaction.  
 H304 May be fatal if swallowed and enters airways.

### Precautionary statements

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.  
 P332+P313 If skin irritation occurs: Get medical advice/ attention.  
 P501 Dispose of contents/ container in accordance with national regulations.

### Supplemental label information

EUH210 Safety data sheet available on request. RCH001a 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

<b>Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate</b> CAS number: 53605-94-0	<b>60-100%</b>
<b>Classification</b> Eye Irrit. 2A - H319	
<b>d-LIMONENE</b> CAS number: 5989-27-5	<b>10-30%</b>
<b>Classification</b> Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Asp. Tox. 1 - H304 Not relevant.	

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

## TidyPen2

<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.
<b>Eye contact</b>	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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Vapours may cause drowsiness and dizziness. Headache. Irritation of nose, throat and airway.
<b>Ingestion</b>	Ingestion of large amounts may cause unconsciousness. May cause nausea, headache, dizziness and intoxication.
<b>Skin contact</b>	Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause skin irritation/eczema.
<b>Eye contact</b>	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

<b>Notes for the doctor</b>	No specific recommendations. If in doubt, get medical attention promptly.
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## 5. Fire-fighting measures

### Extinguishing media

**Suitable extinguishing media** The product is not flammable.

**Unsuitable extinguishing media** None known.

### 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

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**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. 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

**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. 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.

### 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

**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>Hygiene measures</b>	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>	No information available.
<b>Flash point</b>	No information available.
<b>Evaporation rate</b>	No information available.
<b>Evaporation factor</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Other flammability</b>	The product is not flammable.
<b>Vapor pressure</b>	No information available.
<b>Vapor density</b>	No information available.
<b>Relative density</b>	No information available.
<b>Bulk density</b>	No information available.
<b>Solubility(ies)</b>	No information available.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	No information available.
<b>Global Warming Potential (GWP)</b>	
<b>Refractive index</b>	No information available.
<b>Particle size</b>	Not applicable.
<b>Molecular weight</b>	No information available.
<b>Volatility</b>	No information available.

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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 95 g/l.

### 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 exposure</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.

##### Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

**Toxicological effects** No information available.

##### Acute toxicity - oral

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<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rat
<b>ATE oral (mg/kg)</b>	5,000.0
<b><u>Acute toxicity - dermal</u></b>	
<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rat
<b>ATE dermal (mg/kg)</b>	5,000.0
<b><u>Acute toxicity - inhalation</u></b>	
<b>Acute toxicity inhalation (LC<sub>50</sub> dust/mist mg/l)</b>	5.0
<b>Species</b>	Rat
<b><u>Skin corrosion/irritation</u></b>	
<b>Skin corrosion/irritation</b>	Not determined.
<b><u>Serious eye damage/irritation</u></b>	
<b>Serious eye damage/irritation</b>	Not determined.
<b><u>Respiratory sensitization</u></b>	
<b>Respiratory sensitization</b>	Not determined.
<b><u>Skin sensitization</u></b>	
<b>Skin sensitization</b>	Not determined.
<b><u>Germ cell mutagenicity</u></b>	
<b>Genotoxicity - in vitro</b>	No information available.
<b>Genotoxicity - in vivo</b>	No information available.
<b><u>Carcinogenicity</u></b>	
<b>IARC carcinogenicity</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>NTP carcinogenicity</b>	Not listed.
<b>OSHA Carcinogenicity</b>	Not listed.
<b><u>Reproductive toxicity</u></b>	
<b>Reproductive toxicity - fertility</b>	No information available.
<b><u>Specific target organ toxicity - single exposure</u></b>	
<b>STOT - single exposure</b>	Based on available data the classification criteria are not met.
<b><u>Specific target organ toxicity - repeated exposure</u></b>	
<b>STOT - repeated exposure</b>	Based on available data the classification criteria are not met.
<b><u>Aspiration hazard</u></b>	

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<b>Aspiration hazard</b>	Not anticipated to present an aspiration hazard, based on chemical structure.
<b>Inhalation</b>	No specific symptoms known.
<b>Ingestion</b>	No specific symptoms known.
<b>Skin Contact</b>	No specific symptoms known.
<b>Eye contact</b>	Causes eye irritation.
<b>Acute and chronic health hazards</b>	No specific health hazards known.
<b>Route of exposure</b>	No data available.
<b>Target Organs</b>	No specific target organs known.
<b>Medical Symptoms</b>	No specific symptoms known.

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#### Acute toxicity - oral

<b>Acute toxicity oral (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rat
<b>Notes (oral LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b>ATE oral (mg/kg)</b>	5,000.0

#### Acute toxicity - dermal

<b>Acute toxicity dermal (LD<sub>50</sub> mg/kg)</b>	5,000.0
<b>Species</b>	Rabbit
<b>Notes (dermal LD<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b>ATE dermal (mg/kg)</b>	5,000.0

#### Acute toxicity - inhalation

<b>Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)</b>	1,000.0
<b>Notes (inhalation LC<sub>50</sub>)</b>	Based on available data the classification criteria are not met.
<b>ATE inhalation (vapours mg/l)</b>	1,000.0

#### Skin corrosion/irritation

<b>Animal data</b>	Irritating.
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#### Serious eye damage/irritation

<b>Serious eye damage/irritation</b>	Based on available data the classification criteria are not met.
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#### Respiratory sensitization

<b>Respiratory sensitization</b>	Based on available data the classification criteria are not met.
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### Skin sensitization

**Skin sensitization** May cause skin sensitization or allergic reactions in sensitive individuals.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

### Carcinogenicity

**Carcinogenicity** Based on available data the classification criteria are not met.

**IARC carcinogenicity** IARC Group 3 Not classifiable as to its carcinogenicity to humans.

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** Not classified as a specific target organ toxicant after a single exposure.

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Based on available data the classification criteria are not met.

### General information

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

**Inhalation** No specific symptoms known.

**Ingestion** May cause sensitization or allergic reactions in sensitive individuals. May cause irritation.

**Skin Contact** May cause skin sensitization or allergic reactions in sensitive individuals. Redness. Irritating to skin.

**Eye contact** No specific symptoms known.

**Route of exposure** Ingestion Inhalation Skin and/or eye contact

**Target Organs** No specific target organs known.

**Medical considerations** Skin disorders and allergies.

## 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.

#### Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

### Acute aquatic toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >100 mg/l, Oncorhynchus mykiss (Rainbow trout)

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**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >100 mg/l, Daphnia magna

### Chronic aquatic toxicity

**Chronic toxicity - fish early life stage** Not available.

**Short term toxicity - embryo and sac fry stages** Not available.

**Chronic toxicity - aquatic invertebrates** Not available.

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**Toxicity** Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.

### Acute aquatic toxicity

**Acute toxicity - fish** EC<sub>50</sub>, 96 hours: 0.69 mg/l, Pimephales promelas (Fat-head Minnow)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.42 mg/l, Daphnia magna

### Persistence and degradability

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

### Ecological information on ingredients.

#### Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

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

**Biodegradation** - Degradation 91: 28 days

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**Persistence and degradability** The degradability of the product is not known.

**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.

#### Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

**Bio-Accumulative Potential** Not available.

**Partition coefficient** Pow: 1.29

### d-LIMONENE

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

**Partition coefficient** No information available.

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### Mobility in soil

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

### Ecological information on ingredients.

#### Butan-1-yl-3-hydroxybutanoate; butyl-3-hydroxybutyrate

**Mobility** Not available.

**Adsorption/desorption coefficient** Not available.

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**Mobility** No data available.

### Other adverse effects

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

### Ecological information on ingredients.

#### d-LIMONENE

**Other adverse effects** None known.

## 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** Not regulated.

### Transport hazard class(es)

**Transport Labels (International)** Not regulated.

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

## 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.

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### **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**

#### **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

#### **US - TSCA**

Yes

#### **Australia - AICS**

Not listed.

#### **Japan - ENCS**

Not listed.

## TidyPen2

### Korea - KECI

Not listed.

### China - IECSC

Not listed.

### Philippines - PICCS

Not listed.

### Taiwan - TCSI

Not listed.

### New Zealand - NZIOC

Not listed.

## 16. Other information

<b>Revision comments</b>	NOTE: Lines within the margin indicate significant changes from the previous revision.
<b>Revision date</b>	7/20/2020
<b>Revision</b>	48
<b>Supersedes date</b>	7/15/2020
<b>SDS No.</b>	BULK - P02
<b>SDS status</b>	Approved.
<b>Hazard statements in full</b>	H226 Flammable liquid and vapor. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

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.