



## SAFETY DATA SHEET

### P01 TidyPen

According to Regulation (EU) No 453/2010  
According to Regulation (EC) No 1907/2006

#### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

##### 1.1. Product identifier

**Product name** P01 TidyPen  
**Product No.** MCC-PO1, MCC-L80881

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Cleaning agent.

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

**Supplier** MICROCARE EUROPE, BVBA  
Havendoklaan 19  
1804 Cargovil - Vilvoorde  
Belgium  
Tel: +32 2 251 95 05

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

##### 1.4. Emergency telephone number

0032-2-251-95-05 (9 AM - 5 PM, Mon- Fri)

#### SECTION 2: HAZARDS IDENTIFICATION

##### 2.1. Classification of the substance or mixture

###### **Classification (EC 1272/2008)**

Physical and Chemical Hazards	Not classified.
Human health	Skin Irrit. 2 - H315; Skin Sens. 1 - H317
Environment	Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

**Classification (1999/45/EEC)** Xi; R38. R43. N; R50/53.

###### **Human health**

See section 11 for additional information on health hazards.

###### **Physical and Chemical Hazards**

The product is highly flammable, and explosive vapours/air mixtures may be formed even at normal room temperatures. Vapours are heavier than air and may travel along the floor and in the bottom of containers.

##### 2.2. Label elements

**Contains** d-LIMONENE

**Label In Accordance With (EC) No. 1272/2008**

**P01 TidyPen**

<b>Signal Word</b>	Warning	
<b>Hazard Statements</b>	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>	P273	Avoid release to the environment.
	P280	Wear protective gloves/protective clothing/eye protection/face protection.
<b>Supplementary Precautionary Statements</b>	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P264	Wash ... thoroughly after handling.
	P272	Contaminated work clothing should not be allowed out of the workplace.
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P321	Specific treatment (see ... on this label).
	P332+313	If skin irritation occurs: Get medical advice/attention.
	P333+313	If skin irritation or rash occurs: Get medical advice/attention.
	P362	Take off contaminated clothing and wash before reuse.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage.
	P501	Dispose of contents/container to ...

**2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures**

d-LIMONENE	90-100%
CAS-No.: 5989-27-5	EC No.: 227-813-5
Classification (EC 1272/2008)	Classification (67/548/EEC)
Flam. Liq. 3 - H226	R10
Skin Irrit. 2 - H315	R43
Skin Sens. 1 - H317	Xi;R38
Aquatic Acute 1 - H400	N;R50/53
Aquatic Chronic 1 - H410	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures****General information**

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small. Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

**Inhalation**

Move the exposed person to fresh air at once. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Keep the affected person warm and at rest. Get prompt medical attention.

**Ingestion**

DO NOT INDUCE VOMITING! Immediately rinse mouth and drink plenty of water (200-300 ml). Do not give victim anything to drink if he is unconscious. Consult a physician for specific advice.

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### **Skin contact**

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

### **Eye contact**

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

### **4.2. Most important symptoms and effects, both acute and delayed**

#### **General information**

The severity of the symptoms described will vary dependant of 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 redness, itching, irritation and eczema/chapping. May cause skin irritation/eczema.

#### **Eye contact**

May cause temporary eye irritation. Irritating and may cause redness and pain.

### **4.3. Indication of any immediate medical attention and special treatment needed**

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Extinguishing media**

Use: 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.

### **5.2. Special hazards arising from the substance or mixture**

#### **Hazardous combustion products**

During fire, toxic gases (CO, CO<sub>2</sub>) are formed.

#### **Unusual Fire & Explosion Hazards**

HIGHLY FLAMMABLE!

#### **Specific hazards**

Considering the size of the packaging, the risk is regarded as minimal.

### **5.3. Advice for firefighters**

#### **Special Fire Fighting Procedures**

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

#### **Protective equipment for fire-fighters**

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Considering the size of the packaging, the risk is regarded as minimal. Use protective gloves, goggles and suitable protective clothing. Do not smoke, use open fire or other sources of ignition. Provide adequate ventilation.

### **6.2. Environmental precautions**

Avoid release to the environment. Do not discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material.

### **6.3. Methods and material for containment and cleaning up**

Considering the size of the packaging, the risk is regarded as minimal. Wear necessary protective equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Dam and absorb spillages with sand, earth or other non-combustible material. Collect in containers and seal securely.

### **6.4. Reference to other sections**

For personal protection, see section 8. See section 11 for more detailed information on health effects and symptoms.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Storage tanks and other containers must be grounded. Static electricity and formation of sparks must be prevented.

#### 7.2. Conditions for safe storage, including any incompatibilities

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

#### 7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control parameters

##### Ingredient Comments

WEL = Workplace Exposure Limits

#### 8.2. Exposure controls

##### Protective equipment



##### Engineering measures

Provide adequate general and local exhaust ventilation.

##### Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

##### Hand protection

Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended. Be aware that the liquid may penetrate the gloves. Frequent change is advisable.

##### Eye protection

Use eye protection. Wear approved, tight fitting safety glasses where splashing is probable.

##### Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

##### 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.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Colourless to pale yellow.
Odour	Characteristic. Orange.
Solubility	Not soluble in water.
Initial boiling point and boiling range	169-187 C / 340 - 372 F
Vapour density (air=1)	4.6
Vapour pressure	1.6 mm Hg 20 C / 70 F
Flash point (°C)	47 C / 117 F TCC (Tag closed cup).
Auto Ignition Temperature (°C)	235 C / 458 F
Flammability Limit - Lower(%)	0.7
Flammability Limit - Upper(%)	6.0

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### 9.2. Other information

Volatility Description	Volatile
Volatile By Vol. (%)	100

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No specific reactivity hazards associated with this product.

### 10.2. Chemical stability

Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

#### Hazardous Polymerisation

Will not polymerise.

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

### 10.5. Incompatible materials

#### Materials To Avoid

Strong oxidising substances.

### 10.6. Hazardous decomposition products

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

Toxic Conc. - LC 50 4400 mg/l (rat)

#### Toxicological information

This product has low toxicity. Only large volumes may have adverse impact on human health.

#### Other Health Effects

This substance has no evidence of carcinogenic properties.

#### Inhalation

May cause irritation to the respiratory system. Vapours 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 volumes may have adverse impact on human health.

#### Skin contact

Product has a defatting effect on skin. May cause skin irritation/eczema.

#### Eye contact

Irritating to eyes.

#### Route of entry

Skin and/or eye contact. Ingestion. Inhalation.

#### Target Organs

Skin Eyes Respiratory system, lungs

#### Medical Symptoms

Skin irritation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

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## SECTION 12: ECOLOGICAL INFORMATION

### Ecotoxicity

Considering the limited amount applied during use and the size of the container, the risk of adverse effects is considered small.

### 12.1. Toxicity

#### Acute Fish Toxicity

Very toxic to aquatic organisms.

**P01 TidyPen****12.2. Persistence and degradability****Degradability**

The product is easily biodegradable.

**12.3. Bioaccumulative potential****Bioaccumulative potential**

No data available on bioaccumulation.

**12.4. Mobility in soil****Mobility:**

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

**12.5. Results of PBT and vPvB assessment**

This product does not contain any PBT or vPvB substances.

**12.6. Other adverse effects**

The product contains volatile, organic compounds which have a photochemical ozone creation potential.

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**SECTION 13: DISPOSAL CONSIDERATIONS****General information**

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. Waste is suitable for incineration. When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**13.1. Waste treatment methods**

Dispose of waste and residues in accordance with local authority requirements.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

UN No. (ADR/RID/ADN) UN2319

UN No. (IMDG) UN2319

UN No. (ICAO) UN2319

**14.2. UN proper shipping name**

Proper Shipping Name Consumer Commodity ORM-D (USA only)

Proper Shipping Name Terpine Hydrocarbons N.O.S. (d-Limonene)

**14.3. Transport hazard class(es)**

ADR/RID/ADN Class 3 (F1)

IMDG Class 3

ICAO Class/Division 3

Transport Labels

**14.4. Packing group**

ADR/RID/ADN Packing group III

IMDG Packing group III

ICAO Packing group III

**14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant

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**14.6. Special precautions for user**

EMS F-E, S-E

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable. No information required.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Approved Code Of Practice**

Classification and Labelling of Substances and Preparations Dangerous for Supply.

**Guidance Notes**

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION****Revision Comments**

NOTE: Lines within the margin indicate significant changes from the previous revision.

<b>Revision Date</b>	11/01/2012
<b>Revision</b>	3
<b>Supersedes date</b>	17/08/2009
<b>Safety Data Sheet Status</b>	Approved.
<b>Date</b>	10 January 2012

**Risk Phrases In Full**

R10	Flammable.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Hazard Statements In Full**

H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

**Disclaimer**

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.