



## MATERIAL SAFETY DATA SHEET

### P01 TidyPen

#### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**PRODUCT NAME** P01 TidyPen  
**PRODUCT NO.** MCC-PO1, MCC-L80881  
**PRODUCT USE** Cleaning agent.  
**SUPPLIER** MICROCARE CORPORATION  
595 John Downey Drive  
New Britain, CT 06051  
United States of America  
CAGE: OATV9  
+1 860-827-0626  
+1 860-827-8105  
techsupport@microcare.com  
**EMERGENCY TELEPHONE** CHEMTREC (800) 424-9300  
**IDENTIFICATION No.** UN2319

#### 2 HAZARDS IDENTIFICATION

##### EMERGENCY OVERVIEW

Combustible Liquid. This product has low toxicity. Only large volumes may have adverse impact on human health. Liquid irritates mucous membranes and may cause abdominal pain if swallowed. Liquid may irritate the skin. May irritate eyes. Keep out of the reach of children.

##### PHYSICAL AND CHEMICAL HAZARDS

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

##### HUMAN HEALTH

See section 11 for additional information on health hazards.

##### POTENTIAL HEALTH EFFECTS

###### INHALATION

May cause irritation to the respiratory system. 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 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. 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. High concentrations of vapors may irritate respiratory system and lead to headache, fatigue, nausea and vomiting.

###### CARCINOGENICITY

This substance has no evidence of carcinogenic properties.

#### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content %
d-LIMONENE	227-813-5	5989-27-5	90-100%

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### 4 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.

#### 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.

### 5 FIRE-FIGHTING MEASURES

#### EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

#### 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 vapors.

#### UNUSUAL FIRE & EXPLOSION HAZARDS

Combustible Liquid.

#### SPECIFIC HAZARDS

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

#### PROTECTIVE MEASURES IN FIRE

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

**AUTO IGNITION TEMPERATURE** 235 C / 458 F  
(°C)

**FLAMMABILITY LIMIT -  
LOWER(%)** 0.7

**FLAMMABILITY LIMIT - UPPER(%)** 6.0

**FLASH POINT (°C)** 47 C / 117 F TCC (Tag closed cup).

### 6 ACCIDENTAL RELEASE MEASURES

#### PERSONAL PRECAUTIONS

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.

#### 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.

#### SPILL CLEAN UP METHODS

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.

### 7 HANDLING AND STORAGE

#### HANDLING

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

#### STORAGE

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.

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### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

#### 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 vapor 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.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Clear liquid.
COLOR	Colourless to pale yellow.
ODOR	Characteristic. Orange.
VOLATILITY DESCRIPTION	Volatile
SOLUBILITY	Not soluble in water.
BOILING POINT (°C)	169-187 C / 340 - 372 F
VAPOR DENSITY (air=1)	4.6
VAPOR PRESSURE	1.6 mm Hg 20 C / 70 F
VOLATILE BY VOL. (%)	100
FLASH POINT (°C)	47 C / 117 F TCC (Tag closed cup).

### 10 STABILITY AND REACTIVITY

#### STABILITY

Stable under normal temperature conditions.

#### CONDITIONS TO AVOID

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

#### HAZARDOUS POLYMERISATION

Will not polymerise.

#### MATERIALS TO AVOID

Strong oxidizing substances.

#### HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapors/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

### 11 TOXICOLOGICAL INFORMATION

TOXIC CONC. - LC 50 4400 mg/l (rat)

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### TOXICOLOGICAL INFORMATION

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

Name d-LIMONENE

### 12 ECOLOGICAL INFORMATION

#### MOBILITY

The product is soluble in water.

Name d-LIMONENE

### 13 DISPOSAL CONSIDERATIONS

#### WASTE MANAGEMENT

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.

#### DISPOSAL METHODS

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

### 14 TRANSPORT INFORMATION



**DOT PROPER SHIPPING NAME** Terpine Hydrocarbons N.O.S. (d-Limonene)  
**TDG SHIPPING NAME** Terpine Hydrocarbons N.O.S. (d-Limonene)  
**IDENTIFICATION No.** UN2319  
**MARKINGS** ORM-D  
**PACKAGING INSTRUCTIONS** 309 (air transport)  
**UN NO. SEA** UN2319  
**IMDG CLASS** 3  
**IMDG PACK GR.** III  
**EMS** F-E, S-E  
**UN NO. AIR** UN2319  
**AIR CLASS** 3  
**AIR PACK GR.** III

### 15 REGULATORY INFORMATION

#### INVENTORIES

COMPONENT	CAN	US	EU	AUS	JAP	KOR	CHN	PHLP
d-LIMONENE	DSL	Yes.						

#### SARA (311/312) HAZARD CATEGORIES

None.

#### REGULATORY STATUS (US)

TSCA: The ingredients of this product are on the TSCA Inventory.

#### REGULATORY REFERENCES

29 CFR 1910.1010 Federal Regulations (OSHA Standard).

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### CONTROLLED PRODUCT CLASSIFICATION

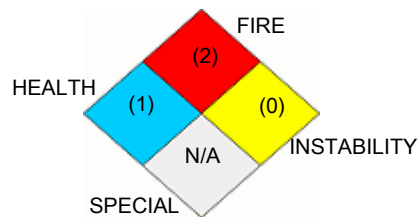
Canadian WHMIS Classification Exempt WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM (CPR SECTION (33)) This product has been classified according to the hazard criteria of the Controlled Product Regulations, and the MSDS contains all required information.

### 16 OTHER INFORMATION

#### HAZARDOUS MATERIAL INFORMATION SYSTEM (HMIS)

HEALTH		1
FLAMMABILITY		2
PHYSICAL		0
PERSONAL PROTECTION	upervisor	

#### NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)



#### REVISION COMMENTS

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

REVISION DATE 10/04/2011

VERSION No. 1

#### SAFETY DATA SHEET STATUS

Approved.

DATE May 20, 2009

#### 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 o