

Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date: 29.02.2008

Revision: 29.02.2008

* 1 Identification of substance:

- **Product details:**

- **Trade name:** TidyPen®
MCC-P01

- **Application of the substance / the preparation** Remover of adhesive residues

- **Supplier/Manufacturer:**

Micro Care Corporation
595 John Downey Drive
New Britain, CT 06051
United States of America
Tel.: +1-860-827-0626
Fax: +1-860-827-8105

MicroCare Europe bvba
Erasmuslaan 10
1804 Zemst
Belgium

- **Email competent person:** angelika.torges@kft.de

- **Information department:**

Tech support (Micro Care): Tel.: +1-860-827-0626
Email: techsupport@microcare.com

- **Emergency information:** National Poisons Information Centre Tel.: +44 (0)870 6006266

2 Hazards identification

- **Hazard description:**



Xi Irritant
N Dangerous for the environment

- **Information pertaining to particular dangers for man and environment:**

R 10 Flammable.

R 38 Irritating to skin.

R 43 May cause sensitisation by skin contact.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system:**

The classification was made according to the latest editions of the EU-lists, and expanded using company data and specialized literature.

3 Composition/information on ingredients

- **Chemical characterization:** D-Limonene solvent

- **CAS No. Description:**

5989-27-5 D-Limonene

- **Identification number(s):**

- **EINECS Number:** 2278135

- **EU Number:** 601-029-00-7

* 4 First aid measures

- **General information:** No special measures required.

- **After inhalation:** In case of complaints which may be caused by vapours supply fresh air and call for a doctor.

(Contd. on page 2)

— GB —

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(Contd. of page 1)

- **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
If skin irritation continues, consult a doctor.
- **After eye contact:** Rather unlikely if used appropriately.
- **After swallowing:**
In this form most unlikely. However, if product comes into contact with the mouth:
Rinse mouth with water.
- **Information for doctor:**
- **The following symptoms may occur:** Local irritation symptoms
- **Treatment:** Symptomatic treatment

5 Fire fighting measures

- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
Use fire fighting measures that suit the environment.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Dangerous decomposition product see chapter 10: stability and reactivity
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information:**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

* 6 Accidental release measures

- **Person-related safety precautions:**
Wear protective clothing.
Ensure adequate ventilation
Do not smoke - keep ignition sources away
- **Measures for environmental protection:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to penetrate the ground/soil.
In case of seepage into the ground inform responsible authorities.
Keep contaminated washing water and dispose of appropriately.
- **Measures for cleaning/collecting:**
If spilled/leaked: absorb main quantity with cloth.
Send for recovery or disposal in suitable receptacles.
Dispose contaminated material as waste according to item 13.

* 7 Handling and storage

- **Handling**
- **Information for safe handling:**
Ensure good ventilation/exhaustion at the workplace.
Keep away from heat and direct sunlight.
Avoid contact with eyes and skin.
- **Information about protection against explosions and fires:**



Keep ignition sources away - Do not smoke.

(Contd. on page 3)

GB

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MCC-P01

(Contd. of page 2)

Protect against electrostatic charges

- **Storage**

- **Requirements to be met by storerooms and receptacles:**

Store cool and dry in a well ventilated area.

Pay attention to special rules for the storage of flammable liquids.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from feed.

Do not store together with oxidizing and acidic materials.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.

Protect from heat and direct sunlight.

- **Storage class 3A Flammable Liquids**

* 8 Exposure controls and personal protection

- **Additional information about design of technical systems:**

Install appropriate mechanical ventilation.

Keep away from open flames and other ignition sources.

Protect against electrostatic charges.

- **Components with limit values that require monitoring at the workplace:** Not required.

- **Personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures should be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

- **Breathing equipment:** Not necessary, if you follow the instructions for use.

- **Protection of hands:** Not necessary due to product form.

- **Material of gloves:** -

- **Penetration time of glove material:** -

- **Eye protection:** Not required.

- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

- **General Information**

Form:	Liquid
Colour:	Colourless
	Clear
Odour:	citrus-like

- **Change in condition:**

Melting point/Melting range: -74.3°C**Boiling point/Boiling range:** 169°C

- **Flash point:** 48°C (TCC)

- **Ignition temperature:** 255°C

- **Self igniting:** Product is not self-igniting.

- **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

- **Explosion limits:**

Lower: 0.7 Vol %

(Contd. on page 4)

Safety Data Sheet

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(Contd. of page 3)

Upper:	6.1 Vol %
· Vapour pressure at 20°C:	2.3 hPa
· Density at 20°C:	0.848
· Solubility in / Miscibility with	
Water:	Not miscible or difficult to mix
Organic solvents:	100.0 %

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.
Keep away from heat and direct sunlight.

· **Materials to be avoided:**

Strong oxidants
Alkalis
Reactive metals

· **Dangerous reactions:** No dangerous reactions known

· **Dangerous products of decomposition:**

In the case of fire or at high temperatures the formation of the following decomposition products is possible.
Carbon monoxide and carbon dioxide

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

5989-27-5 D-Limonene

Oral LD₅₀ 4400 mg/kg (rat)

· **Primary irritant effect:**

· **on the skin:**

Irritant to skin and mucous membranes.
Continuing or repeated contact with the skin may cause skin disease.

· **on the eye:** Light irritation possible

· **Sensitization:** May cause sensitization by skin contact.

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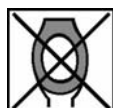
*12 Ecological information

· **Ecotoxicological effects:**

· **Aquatic toxicity:** Presently there are no ecotoxicological values available.

· **General notes:**

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water.



Do not allow product to reach ground water, water course or sewage system.

Also poisonous for fish and plankton in water bodies.

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(Contd. of page 4)

13 Disposal considerations

- Product:
- Recommendation:



Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Disposal according to instructions of local authorities.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)



- ADR/RID class: 3 (F1) Flammable liquids.
- Danger code (Kemler): 30
- UN-Number: 2052
- Packaging group: III
- Label: 3
- Description of goods: Dipentene

- Maritime transport IMDG:



- IMDG Class: 3
- UN Number: 2052
- Label: 3
- Packaging group: III
- EMS Number: F-E,S-E
- Marine pollutant: P
- Proper shipping name: DIPENTENE

- Air transport ICAO-TI and IATA-DGR:



- ICAO/IATA Class: 3
- UN/ID Number: 2052
- Label: 3
- Packaging group: III
- Proper shipping name: DIPENTENE

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(Contd. of page 5)

*15 Regulations

- **Markings according to EC guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

- **Code letter and hazard designation of product:**



Xi Irritant
N Dangerous for the environment

- **Hazard-determining components of labelling:**

D-Limonene

- **Risk phrases:**

10 Flammable.
38 Irritating to skin.
43 May cause sensitisation by skin contact.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Safety phrases:**

2 Keep out of the reach of children.
24 Avoid contact with skin.
37 Wear suitable gloves.
60 This material and its container must be disposed of as hazardous waste.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

- **National regulations**

- **Information about limitation of use:** Restrictions on juvenile employment must be observed.

- **Technical guidance (air):**

- **Class Share in %**

- III 100.0

- **Water hazard class:** Water hazard class 2 (Assessment by list): hazardous for water.

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Reasons for amendments:**

Regulation (EC) No. 1907/2006
WGK classification
General revision

- **Department issuing MSDS:**

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Postfach 1451 D-64345 Griesheim
Tel.: +49-6155-823241 Fax: +49-6155-823246

- **Contact:** Angelika Torges

- *** Data compared to the previous version altered.**

Changes have been made to chapters marked with a *, as compared to the previous version.