

# SAFETY DATA SHEET

## Mighty Pen CW3700

### 1. Identification of the substance/preparation and of the company/undertaking

**Identification of the substance or preparation****Product name** : **Mighty Pen CW3700****Chemical name** : Mighty Pen**Use of the substance/preparation** : CLEANING PRODUCTS**Company/undertaking identification****Manufacturer** : ITW Chemtronics  
8125 Cobb Center Drive  
Kennesaw, GA 30152**Supplier** : [  
[  
[  
[**Importer** : ITW Contamination Control  
Skejby Nordlandsvej 307  
DK-8200 Aarhus N  
Denmark  
Tel +45 87 400 220  
Fax +45 87 400 222  
Email: info@itw-cc.com**Emergency telephone number** : Chemtrec - 1-800-424-9300 or collect 703-527-3887

### 2. Composition/information on ingredients

**Substance/Preparation** : Preparation

Ingredient Name	CAS number	%	EC Number	Classification
(R)-p-Mentha-1,8-diene	5989-27-5	60-90	227-813-5	R10 Xi; R38 R43
Tetrahydrofuran	109-99-9	10-40	203-726-8	N; R50/53 F; R11 R19 Xi; R36/37
See Section 16 for the full text of the R Phrases declared above				

\* Occupational Exposure Limit(s), if available, are listed in Section 8

### 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : F; R11  
Xi; R38  
R43**Physical/chemical Hazards** : Highly flammable.**Human health hazards** : May cause sensitisation by skin contact. Irritating to eyes and skin.

See Section 11 for more detailed information on health effects and symptoms.

### 4. First aid measures

**First aid measures****Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical attention immediately.**Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.**Date of issue** : 1/27/2006.

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**Skin Contact** : In case of contact, immediately flush skin copiously with water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Obtain medical attention immediately.

**Eye contact** : In case of contact, immediately flush eyes with a copious amount of water for at least 15 minutes. Obtain medical attention immediately.

**Specific treatments** :

See Section 11 for more detailed information on health effects and symptoms.

## 5. Fire-fighting measures

**Extinguishing media** : Use foam or all-purpose dry chemicals to extinguish. This material is very toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Special exposure hazards** : Highly flammable liquid and vapour. Vapour may cause flash fire. Vapours may accumulate in low or confined areas, travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.  
Not available.

**Hazardous thermal decomposition products** : These products are carbon oxides (CO, CQ).

**Special protective equipment for fire-fighters** : Fire-fighters should wear self-contained positive pressure breathing apparatus (SCBA) and full turnout gear.

## 6. Accidental release measures

**Personal Precautions** : Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5). Do not touch or walk through spilled material.

**Environmental precautions and cleanup methods** : Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

If emergency personnel are unavailable, contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) and use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

**Note:** See section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

**Handling** : Avoid contact with eyes, skin and clothing. Keep container closed. Use only with adequate ventilation. Keep away from heat, sparks and flame. Wash thoroughly after handling.

**Storage** : Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

**Packaging materials**

**Recommended** : Use original container.

**Specific uses** :

## 8. Exposure controls/personal protection

### Ingredient Name

Tetrahydrofuran

### Occupational Exposure Limits

**EU OEL (Europe, 2000). Skin Notes: Indicative**

STEL: 300 mg/m<sup>3</sup> 15 minute(s).

STEL: 100 ppm 15 minute(s).

TWA: 150 mg/m<sup>3</sup> 8 hour(s).

TWA: 50 ppm 8 hour(s).

**Exposure controls**

**Occupational exposure controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are close to the workstation location.

**Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

**Hand protection** : Use latex gloves. Double latex gloves should be considered.

**Eye protection** : Safety glasses. Goggles, face shield, or other full-face protection if potential exists for direct exposure to aerosols or splashes.

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**Skin protection** : Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces. Appropriate techniques should be used to remove potentially contaminated clothing.

## 9. Physical and chemical properties

### General information

#### Appearance

**Physical state** : Liquid.  
**Colour** : Colourless.  
**Odour** : Lemon-like. (Slight.)

### Important health, safety and environmental information

**pH** : Not available.  
**Boiling point** : 65°C (149°F)  
**Melting point** : May start to solidify at -108.28°C (-162.9°F) based on data for: Tetrahydrofuran.  
**Flash point** : Closed cup: -14°C (6.8°F).  
**Explosive properties** : Not considered as a product presenting risks of explosion.  
**Oxidising properties** : Not available.  
**Vapour pressure** : 0.3 kPa (2 mm Hg) (at 20°C)  
**Relative density** : 0.84 g/cm<sup>3</sup>  
**Solubility** : Not available.  
**Vapour density** : The highest known value is 2.5 (Air = 1) (Tetrahydrofuran).  
**Evaporation rate (butyl acetate = 1)** : <1 compared to Butyl acetate.

### Other information

**Auto-ignition temperature** : The lowest known value is 320.9°C (609.6°F) (Tetrahydrofuran).

## 10. Stability and reactivity

**Stability** : The product is stable.  
**Hazardous Decomposition Products** : These products are carbon oxides (CO, CQ).

## 11. Toxicological information

### Potential Acute Health Effects

**Inhalation** : Irritating to respiratory system.  
**Ingestion** : No specific hazard.  
**Skin Contact** : Irritating to skin. May cause sensitisation by skin contact.  
**Eye contact** : Irritating to eyes.

### Acute toxicity

<u>Ingredient Name</u>	<u>Test</u>	<u>Result</u>	<u>Route</u>	<u>Species</u>
(R)-p-Mentha-1,8-diene	LD50	4400 mg/kg	Oral	Rat
	LD50	5600 mg/kg	Oral	Mouse
Tetrahydrofuran	LD50	1650 mg/kg	Oral	Rat
	LD50	2300 mg/kg	Oral	Guinea pig

### Over-exposure signs/symptoms

**Target Organs** : Contains material which causes damage to the following organs: mucous membranes, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.  
**Other adverse effects** : Not available.

## 12. Ecological information

### Ecotoxicity Data

<u>Ingredient Name</u>	<u>Species</u>	<u>Period</u>	<u>Result</u>
(R)-p-Mentha-1,8-diene	Daphnia pulex (EC50)	48 hour(s)	69.6 mg/l
	Pimephales promelas (LC50)	96 hour(s)	0.702 mg/l
Tetrahydrofuran	Pimephales promelas (LC50)	96 hour(s)	2160 mg/l

**Mobility** :

**Other adverse effects** :





**Date of issue** : 1/27/2006.

### 13. Disposal considerations

- Methods of disposal** : Avoid contact of spilled material and runoff with soil and surface waterways. Dispose of according to all federal, state and local applicable regulations.
- Waste Classification** : Not applicable.
- European Waste Catalogue (EWC)** : Not available.
- Hazardous Waste** : The classification of the product may meet the criteria for a hazardous waste

### 14. Transport information

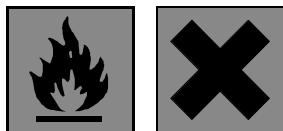
**International transport regulations**

Regulatory information	UN number	Proper shipping name	Class	Packing group	Label	Additional Information
ADR/RID Class	1993	FLAMMABLE LIQUIDS, N.O.S. (d-limonene)	3	II		-
ADN Class	1993	FLAMMABLE LIQUIDS, N.O.S. (d-limonene)	3	II		-
IMDG Class	1993	FLAMMABLE LIQUIDS, N.O.S. (d-limonene)	3	II		-
IATA-DGR Class	1993	FLAMMABLE LIQUIDS, N.O.S. (d-limonene)	3	II		-

### 15. Regulatory information

**EU Regulations**

**Hazard symbol(s)** :



Highly flammable, Irritant

**Risk phrases** :

- R11- Highly flammable.
- R38- Irritating to skin.
- R43- May cause sensitisation by skin contact.

**Safety Phrases** :

- S16- Keep away from sources of ignition - No smoking.
- S24- Avoid contact with skin.
- S2- Keep out of the reach of children.

**Contains** :

d-limonene

227-813-5

**Product Use** :

- Classification and labelling have been performed according to EU directives 67/548/EEC, 1999/45/EC, including amendments and the intended use.
- Industrial applications

**EC Statistical Classification (Tariff Code)** :

32089091

## 16. Other information

Full text of R phrases referred to in Sections 2 and 3 - Europe : R11- Highly flammable.  
R10- Flammable.  
R19- May form explosive peroxides.  
R36/37- Irritating to eyes and respiratory system.  
R36/37/38- Irritating to eyes, respiratory system and skin.  
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.

Full text of classifications referred to in Sections 2 and 3 - Europe : F - Highly flammable  
Xi - Irritant  
N - Dangerous for the environment.

### HISTORY

Date of printing : 1/27/2006.  
Date of issue : 1/27/2006.  
Date of previous issue : No Previous Validation.  
Version : 1.01  
Prepared by :

### Notice to Reader

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