

# SAFETY DATA SHEET

## Power Plumber

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

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**1.1. Product identifier**

Product name                    Power Plumber  
 Product number                25432

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

Identified uses                 Drain cleaner

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

Supplier                         M&P Paint & Coatings AB  
                                       August Barks Gata 1  
                                       421 32 Västra Frölunda  
                                       Sweden  
                                       Tel: 031-773 80 71  
                                       Fax: 031-773 80 72  
                                       info@mppc.se

**1.4. Emergency telephone number**

National emergency            112 or 999  
 telephone number

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**SECTION 2: Hazards identification**

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**2.1. Classification of the substance or mixture****Classification****Physical hazards**

Aerosol 3 - H229

**Health hazards**

Not Classified

**Environmental hazards**

Not Classified

**Classification (67/548/EEC or 1999/45/EC)****Human health**

Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. In high concentrations, vapours and aerosol mists have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Physicochemical**

Pressure chamber may explode in the event of fire.

**2.2. Label elements**

Signal word                     Warning

**Hazard statements**

H229 Pressurised container: may burst if heated

**Precautionary statements**

P251 Do not pierce or burn, even after use.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.  
 P102 Keep out of reach of children.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

**2.3. Other hazards**

## Power Plumber

This product does not contain any substances classified as PBT or vPvB. Contains fluorinated greenhouse gases covered by the Kyoto Protocol.HFC 134a

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>1,1,1,2-Tetrafluoroethane</b>	<b>60-100%</b>
CAS number: 811-97-2 EC number: 212-377-0 REACH registration number: 01-2119459374-33-0000	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Press. Gas, Compressed - H280	-
<b>ETHANOL</b>	<b>5-10%</b>
CAS number: 64-17-5 EC number: 200-578-6 REACH registration number: 01-2119457610-43	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 2 - H225 Eye Irrit. 2 - H319	F;R11

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

Get medical attention if any discomfort continues.

##### Inhalation

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

##### Ingestion

Drink a few glasses of water or milk. Do not induce vomiting.

##### Skin contact

Wash skin thoroughly with soap and water.

##### Eye contact

Rinse with water. Get medical attention if any discomfort continues.

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

##### Inhalation

Vapours may cause headache, fatigue, dizziness and nausea.

##### Ingestion

May cause nausea, headache, dizziness and intoxication.

##### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

##### Eye contact

May cause temporary eye irritation.

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

##### Notes for the doctor

No specific recommendations.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Extinguish with foam, carbon dioxide or dry powder.

## Power Plumber

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

#### Specific hazards

Containers can burst violently or explode when heated, due to excessive pressure build-up. Containers can burst violently or explode when heated, due to excessive pressure build-up.

### 5.3. Advice for firefighters

#### Protective actions during firefighting

Move containers from fire area if it can be done without risk.

#### Special protective equipment for firefighters

Wear chemical protective suit. Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

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## SECTION 6: Accidental release measures

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

#### Personal precautions

For personal protection, see Section 8.

### 6.2. Environmental precautions

#### Environmental precautions

Avoid release to the environment.

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

#### Methods for cleaning up

Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Flush away spillage with plenty of water. Absorb spillage with non-combustible, absorbent material.

### 6.4. Reference to other sections

#### Reference to other sections

For personal protection, see Section 8. For waste disposal, see section 13.

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## SECTION 7: Handling and storage

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### 7.1. Precautions for safe handling

#### Usage precautions

Keep away from heat, sparks and open flame. Protect against direct sunlight.

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

#### Storage precautions

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Keep container dry.

### 7.3. Specific end use(s)

#### Specific end use(s)

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

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## SECTION 8: Exposure Controls/personal protection

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### 8.1. Control parameters

#### Occupational exposure limits

##### **1,1,1,2-Tetrafluoroethane**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 4240 mg/m3

##### **ETHANOL**

Long-term exposure limit (8-hour TWA): WEL 1000 ppm 1920 mg/m3

Short-term exposure limit (15-minute): WEL

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

## Power Plumber

### Protective equipment



#### Appropriate engineering controls

All handling should only take place in well-ventilated areas.

#### Eye/face protection

No specific eye protection required during normal use.

#### Hand protection

Gloves are recommended for prolonged use. Butyl rubber. Viton rubber (fluoro rubber). Laminate of polyethylene and ethylene vinyl alcohol (PE/EVOH). Neoprene. Nitrile rubber.

#### Hygiene measures

When using do not eat, drink or smoke.

#### Respiratory protection

No specific recommendations. Respiratory protection may be required if excessive airborne contamination occurs.

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## SECTION 9: Physical and Chemical Properties

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

#### Appearance

Aerosol.

#### Colour

Colourless.

#### Odour

Perfume.

#### Flash point

Technical impossibility to obtain the data.

#### Relative density

~1

#### Solubility(ies)

Soluble in water.

### 9.2. Other information

#### Other information

Not relevant.

#### Volatile organic compound

No information required.

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## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

#### Stability

Stable at normal ambient temperatures and when used as recommended.

### 10.3. Possibility of hazardous reactions

Not known.

### 10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

### 10.5. Incompatible materials

## Power Plumber

### Materials to avoid

No specific material or group of materials is likely to react with the product to produce a hazardous situation.

### 10.6. Hazardous decomposition products

Not known.

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## SECTION 11: Toxicological information

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### 11.1. Information on toxicological effects

#### Toxicological effects

No data is available regarding the preparation it self.

#### Inhalation

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

#### Ingestion

May cause nausea, headache, dizziness and intoxication.

#### Skin contact

Prolonged contact may cause redness, irritation and dry skin.

#### Eye contact

May cause temporary eye irritation.

#### Acute and chronic health hazards

Gas or vapour displaces oxygen available for breathing (asphyxiant).

## Power Plumber

### Toxicological information on ingredients.

#### 1,1,1,2-Tetrafluoroethane

##### **Toxicological effects**

No data is available regarding the preparation it self.

##### **General information**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

##### **Inhalation**

Vapours have a narcotic effect. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. May cause respiratory system irritation.

##### **Ingestion**

May cause irritation. Symptoms following overexposure may include the following: Stomach pain. Nausea, vomiting. Diarrhoea.

##### **Skin contact**

Prolonged contact may cause redness, irritation and dry skin.

##### **Eye contact**

May cause temporary eye irritation.

#### ETHANOL

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)**

7,060

##### **Species**

Rat

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)**

20000

##### **Species**

Rabbit

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)**

124.7

##### **Species**

Rat

**ATE inhalation (vapours mg/l)**

124.7

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## SECTION 12: Ecological Information

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### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

### Ecological information on ingredients.

#### 1,1,1,2-Tetrafluoroethane

##### **Ecotoxicity**

There are no data on the ecotoxicity of this product.

### 12.1. Toxicity

No data is available regarding the preparation itself.

## Power Plumber

### Ecological information on ingredients.

#### 1,1,1,2-Tetrafluoroethane

No data is available regarding the preparation itself.

#### ETHANOL

##### **Acute toxicity - fish**

LC50, 96 hours: ~ 13500 mg/l, Pimephales promelas (Fat-head Minnow)

##### **Acute toxicity - aquatic invertebrates**

EC50, 48 hours: ~ 5400 mg/l, Daphnia magna

##### **Acute toxicity - aquatic plants**

IC50, 72 hours: > 10.9 mg/l, Marinewater algae

### 12.2. Persistence and degradability

#### **Persistence and degradability**

There are no data on the degradability of this product.

### Ecological information on ingredients.

#### 1,1,1,2-Tetrafluoroethane

##### **Persistence and degradability**

There are no data on the degradability of this product.

### 12.3. Bioaccumulative potential

No data available on bioaccumulation.

### Ecological information on ingredients.

#### 1,1,1,2-Tetrafluoroethane

No data available on bioaccumulation.

#### ETHANOL

BCF: ~ 0.66,

##### **Partition coefficient**

log Pow: ~ -0.32

### 12.4. Mobility in soil

#### **Mobility**

No information available

### Ecological information on ingredients.

#### 1,1,1,2-Tetrafluoroethane

##### **Mobility**

No information available

### 12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

### Ecological information on ingredients.

#### 1,1,1,2-Tetrafluoroethane

This product does not contain any substances classified as PBT or vPvB.

### 12.6. Other adverse effects

No information required.

## Power Plumber

### Ecological information on ingredients.

#### 1,1,1,2-Tetrafluoroethane

No information required.

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### SECTION 13: Disposal considerations

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#### 13.1. Waste treatment methods

##### General information

The manufacturer of this product complies with the rules and regulations of the European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste, by paying packaging fees for disposal and recycling of packaging waste.

##### Disposal methods

The plastic lid and valve are sorted as plastic. Empty aerosols are sorted as scrap metal. Residues and non empty containers should be taken care of as hazardous waste according to local and national regulations.

##### Waste class

Non emty containers: EWC 14 06 01\*

Empty containers: EWC 15 01 04

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### SECTION 14: Transport information

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**General** Aerosols may be carried domestically as limited quantities ( 1L ) as long as each package does not exceed 30 kg in cardboard boxes or 20 kg on trays with shrink- or stretch wrapping. Each package shall be marked with diamond-shaped area, the top and bottom part is black, surrounded by a line that measures at least 100 mm x 100 mm.

#### 14.1. UN number

UN No. (ADR/RID)	1950
UN No. (IMDG)	1950
UN No. (ICAO)	1950
UN No. (ADN)	1950

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	AEROSOLS
Proper shipping name (IMDG)	AEROSOLS
Proper shipping name (ICAO)	AEROSOLS
Proper shipping name (ADN)	AEROSOLS

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

ADR/RID class	2.2
ADR/RID classification code	5A,5O
ADR/RID label	2.2
IMDG class	2.2
ICAO class/division	2.2
ADN class	2.2

##### Transport labels



#### 14.4. Packing group



## Power Plumber

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

EmS F-D, S-U  
ADR transport category 3  
Tunnel restriction code (E)

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

Not relevant.

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## SECTION 15: Regulatory information

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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

COUNCIL DIRECTIVE of may 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

#### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

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## SECTION 16: Other information

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### General information

A review of safety data sheet with staff to manage the product recommended.

Issued by Björkstедt  
Revision date 19/02/2015  
Revision 1

### Risk phrases in full

R11 Highly flammable.

### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H229 Pressurised container: may burst if heated  
H280 Contains gas under pressure; may explode if heated.  
H319 Causes serious eye irritation.

### 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.