

Date of issue: 18.01.2005 Replaces Data Sheet of : 03.02..2004

"\*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available



## 1 Identification of Substance / Preparation and Company

### 1.1 Identification of Substance or Preparation

Trade Name : AR 9000

Use : Graffiti - Remover

### 1.2 Company / Undertaking Identification

#### 1.2.1 Address of the Company / Undertaking :

PSS INTERSERVICE Ltd., CH - 8954 Geroldswil, Rebbergstr. 10, P.O. Box

Telephone : ++41-44-749 24 24, Fax : ++41-44-749 24 25

#### 1.2.2 Responsible :

CHEMCO, Dipl. - Chemikerin R. Fechner, ☎ ++ 49-5254-9575-05

### 1.3 Emergency - Telephone

Swiss Toxicological Information Centre: ++41-44-251 51 51

Emergency - Telephone of Company / Undertaking: ++41-44-749 24 24

## 2 Composition / Information on Ingredients

### 2.1 Chemical Characterisation:

Aqueous alcoholic solution

### 2.2 Dangerous Ingredients:

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R - phrases
64-17-5	603-002-00-5	200-578-6	Ethanol	70 - 90 %	F	R 11
872-50-4	606-021-00-7	212-828-1	N-Methyl-2-pyrrolidone	15 - 30 %	Xi	R 36/38

#### Remarks:

Classification and labelling of a product is indicated under item 15.

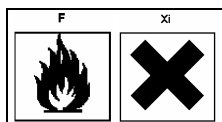
Exposure Controls / Personal Protection under item 8

R -phrase(s) under item 16

## 3 Hazards Identification

### 3.1 For Humans (additional information is given under item 11) :

#### 3.1.1 Classification :



R11 - Highly flammable.

R36/38 - Irritating to eyes and skin

#### 3.1.2 Additional advice :

In use, may form flammable/explosive vapour-air mixture.

### 3.2 For the Environment :

Slightly water endangering

### 3.3 For Materials:

Polyethylene containers must be solvent resistant.

## 4 First Aid Measures

### 4.1 Inhalation:

Move out of dangerous area. Move to fresh air in case of accidental inhalation of vapours.

Main symptoms : Shortness of breath, nausea.

If symptoms persist, call a physician.

### 4.2 Skin Contact :

Wash off with soap and water.

If skin irritation persists, call a physician.

### 4.3 Eye Contact :

Immediately flush eye(s) with plenty of water.

If eye irritation persists, consult a specialist.

### 4.4 Ingestion :

Clean mouth with water and drink afterwards plenty of water.

If symptoms persist, call a physician.

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4.5 **Note to Physician:**  
 In case of shortness of breath, give oxygen.

4.6 **Special Equipment:**  
 No data available.

**5 Fire Fighting Measures**

5.1 **Suitable Extinguishing Media :** Foam, powder, carbon dioxide and water spray.

5.2 **Extinguishing Media to Avoid :** High volume water jet.

5.3 **Fire and Explosion Hazards :**

In the event of fire may be formed : Nitrogen and carbon oxides.

5.4 **Additional Information :** Water mist may be used to cool closed containers.  
 Hose down gases, fumes and/or dust with water.

5.5 **Special Protective Equipment :**  
 Wear positive pressure self-contained breathing apparatus.  
 Wear full protective clothing.

**6 Accidental Release Measures**

6.1 **Personal Precautions :**  
 See No. 8.3 Personal Protective Equipment.

Ensure adequate ventilation, especially in confined areas. Keep away from heat and sources of ignition.

6.2 **Environmental Precautions and Methods for Cleaning up :**

Do not empty into drains. Contact the proper local authorities. Soak up with inert absorbent material. (e.g. universal binder). Take up mechanically and collect in suitable container for disposal. After cleaning, flush away traces with water.

6.3 **Further Information :** Wear suitable respiratory equipment.

**7 Handling and Storage (For national regulations refer to item 15.2)**

7.1 **Handling**

7.1.1 **Precautions for Safe Handling :**

Keep away from sources of ignition - No smoking. Keep product and empty container away from heat and sources of ignition. Always replace cap after use.

7.1.2 **Precautions in Case of Fire and Explosion :**

Ensure adequate ventilation, especially in confined areas. Take precautionary measures against static discharge. Vapours are heavier than air and may spread along floors.

7.2 **Storage**

7.2.1 **Storage Instructions :**

Keep product and empty container away from heat and sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place.

7.2.2 **Store away from :**

Do not store together with oxidizing agents.

7.2.3 **Further Information on Storage Conditions :**

Ensure adequate ventilation.

7.2.4 **Storage Class :** 3A (VCI - Concept)

**8 Exposure Controls and Personal Protection**

8.1 **Information on System Design :**

Provide personal protective equipment. Electrical equipment should be protected to the appropriate standard. Use only explosion-proof equipment.

8.2 **Exposure Limits:**

8.2.1 **CAS / Material**

64-17-5 / Ethanol

872-50-4 / N-Methyl-2-pyrrolidone

**Limit Value according to TRGS 900/ EEC Guideline 2000/39:**

500 ppm, 960 mg / m<sup>3</sup>, Y

20 ppm (Vapour), resorption through skin is possible.

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**8.3 Personal Protective Equipment****8.3.1 General Protection and Hygiene :**

Avoid contact with the skin and the eyes. Take off all contaminated clothing immediately. Do not breathe vapours/dust. When using, do not eat, drink or smoke. preventive skin protection

**8.3.2 Respiratory Protection :** In case of insufficient ventilation, wear suitable respiratory equipment.

Respirator with filter (A).

**8.3.3 Hand Protection :** Solvent-resistant gloves, (polyvinyl alcohol or nitrile-butyl rubber gloves).

Break through time : Refer to manufacturer/supplier for information.

**8.3.4 Eye Protection :** Tightly fitting safety goggles.**8.3.5 Skin Protection :** Protective suit.**8.3.6 Further Information :** § 19 Abs. 5 GefStoffV.**9 Physical and Chemical Properties****9.1 Appearance****9.1.1 Form :** liquid**9.1.2 Colour :** colourless**9.1.3 Odour :** solvent**9.2 Safety Relevant Data****9.2.1 pH-value, undiluted :**

no data available, pH-value, 1% aqueous solution : no data available

**9.2.2 Boiling point / Boiling - range (°C) :**

78, Melting point / Melting range (°C) : -114

**9.2.3 Flash point (°C, c.c.) :**

8

**9.2.4 Flammability (EEC A10/A13) :**

no data available

**9.2.5 Ignition temperature (°C) :**

no data available

**9.2.6 Autoflammability (EEC A16) :**

&gt; 400 °C

**9.2.7 Oxidising properties :**

not applicable

**9.2.8 Explosion hazard :**

not applicable

**9.2.9 Explosion limits (Vol.%) lower :**

3,5, upper : 15

**9.2.10 Vapour pressure :**

5,9 KPa bei 20 °C

**9.2.11 Density (g/ml) :**

0,81

**9.2.12 Solubility (in Water) :**

soluble miscible with most organic solvents

**9.2.13 Partition coefficient, n-Octanol/Water :**

no data available

**9.2.14 Viscosity :**

no data available

**9.2.15 Solvent separation test :**

no data available

**9.2.16 Solvent content (m %) :**

ca. 90

**9.2.17 Fat solubility :**

yes

**9.3 Further Data****9.3.1 Thermal decomposition (°C) :**

no data available

**9.3.2 Vapour density (Air = 1) :**

1,59

**9.3.3 Evaporation rate :**

no data available

**10 Stability and Reactivity****10.1 Conditions to Avoid :**

Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).  
 Risk of receptacle bursting.

**10.2 Materials to Avoid :**

Strong oxidizing agents.

**10.3 Hazardous Decomposition Products :**

Nitrogen oxides.

**10.4 Further Information :**

Reacts with air to form peroxides.

**11 Toxicological Information****11.1 Toxicological Tests :****11.1.1 Acute Health Effects :**

Inhalation, LC<sub>50</sub> rat, (mg/l/4h) : no data available

Ingestion, LD<sub>50</sub> rat, (mg/kg) : 11500

Skin - contact, LD<sub>50</sub> rat, (mg/kg) : no data available

Irritation (to skin / eye) : no data available

Sensitisation : no data available

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- 11.1.2 **Subacute / Chronic Toxicity :**  
 Carcinogenicity : None.  
 Mutagenicity : None.  
 Teratogenicity : There is no reason to fear a risk when the exposure limit is adhered to.  
 Narcotic Effects : Inhalation of vapours in high concentration can cause narcotic effects.
- 11.2 **Practical Experience**
- 11.2.1 Observations relevant for classification :  
 None.
- 11.2.2 Further Observations :  
 Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
- 11.3 **General Remarks :**  
 Classification of the preparation has been done by calculation in accordance with EEC directives.

**12 Ecological Information**

- 12.1 **Elimination (Persistence and Degradability) :**  
 Biodegradable.
- 12.2 **Behaviour in Sewage Works :**  
 Mobility and Accumulation Potential :  
 Does not bioaccumulate
- 12.3 **Ecotoxic Effects, Aquatic Toxicity :**  
 Slightly water endangering.
- 12.4 **Other Ecological Information**
- 12.4.1 COD-Value, mg/g : no data available  
 12.4.2 BOD<sub>5</sub>-Value, mg/g : no data available  
 12.4.3 AOX-Remarks : not applicable  
 12.4.4 Significant Components : None.

**13 Disposal Considerations** (For national Regulations refer to item 15.)

- 13.1 **Residues**
- 13.1.1 Recommendation : R 1 / D 10 (91/156) Waste - Code - No. : 07 01 04  
 In addition comply with the regional authorities.
- 13.1.2 Safe Handling: See item 7 and 15.
- 13.2 **Contaminated Packaging**
- 13.2.1 Recommendation : Wash with suitable cleaner. Otherwise as described under Residues.  
 13.2.2 Safe Handling : As described under Residues.

**14 Transport Information**

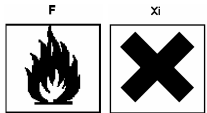
- 14.1 **Transportation by Road or Railway according to ADR/GGVS and RID/GGVE**
- Remarks :**  
 Class : 3 Classification :F1 Packing Group : II  
**Instructions for Transportation in Tanks :** Hazard-No. : 33 UN-No. : 1170
- 14.1.1 **Instruction Concerning Shipper's Declaration and Packaging :**
- | Volume or Mass  | Description of Goods           | Risklabel      | Packing - Code or marginal |
|---|--------------------------------|----------------|----------------------------|
| Limited quantities according to marginal LQ4 : Liquids not more than 3 litre(s) per inner packaging and not more than 12 litre(s) per package (3, 12) | "LQ" UN 1170 ETHANOL, SOLUTION | not applicable | LQ4                        |
|   | UN 1170 ETHANOL, SOLUTION      | 3              | P001, R001                 |

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- 14.1.2 **Listed Cargo as per Appendix B.8** : not applicable  
 14.1.3 **Additional Designation in the Shipper's Declaration** : not applicable  
**Inscription on Packaging** : UN 1170 if LQ  
 14.2 **Classification for Transportation by Inland-Navigation according to ADNO/GGVBinSch**  
**Remarks : Classification has not been done.**  
 Class : Division : Category :  
 14.2.1 **Description of Goods** :  
 14.2.2 **Remarks** :  
 14.3 **Classification for Transportation by Vessels according to IMDG/GGVSee**  
**Remarks :**  
 Class : 3 UN-No. : 1170 Packing Group : II  
 14.3.1 **EmS – Fire / Leak** : F-E; S-D **MFAG-Table** : Guide dated from 01.02.2001  
 14.3.2 **Marine Pollutant** : Not relevant  
 14.3.3 **Instruction for Declaration and Labelling** :  
 (Packing sizes with possible exemptions not considered)  
**Proper Shipping Name** : ETHANOL - Solution  
**Risk Label** : Flammable Liquid  
 14.3.4 **Remarks** : None.  
 14.4 **Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI**  
**Remarks :**  
 Class : 3 UN-No. : 1170 Packing Group : II  
 14.4.1 **Instruction for Declaration and Labelling** :  
 (Packing sizes with possible exemptions not considered)  
**Proper Shipping Name** : ETHANOL - SOLUTION  
**Risk Label** : Flammable Liquid  
 Packing Instructions, Passenger : 305 Cargo : 307  
 14.4.2 **Remarks** : None.

**15 Regulatory Information**

- 15.1 **Classification according to EEC-Regulations** :  
 Classification required by EEC : Yes  
 Hazard Identification : Highly flammable & Irritant  
 Component(s) :  
**R-Phrases** :  
 (R11 - Highly flammable. )  
 R36/38 - Irritating to eyes and skin.  
**S-Phrases** :  
 S2: Keep out of reach of children.  
 S 7 - Keep container tightly closed.  
 S16 - Keep away from sources of ignition - No smoking.  
 S41 - In case of fire and/or explosion do not breathe fumes.  
 Applicable Exemptions : No.  
 Hazard Symbol(s) :  
  
 15.1.1 The above mentioned classification is valid for distribution to professional use.  
 Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

**16 Other Information****R-phrases(s) :**

R11 - Highly flammable.  
 R36/38 - Irritating to eyes and skin.

**Further information to work out the Data sheet:**

Data of the producer.

\*The statements in this Material Safety Data Sheet were made to the best of our knowledge (1999/45/EC and 2004/73/EC) and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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