

Date of issue: 19.07.2005 Replaces Data Sheet of : 06.01.2005

"*" 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 210

Use : Paint or varnish 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 : ++41-1-749 24 24, Fax : ++41-1-749 24 25

1.2.2 Responsible :

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

1.3 Emergency - Telephone

Swiss Toxicological Information Centre: ++41-1-251 51 51

Emergency - Telephone of Company / Undertaking: ++41-1-749 24 24

2 Composition / Information on Ingredients

2.1 Chemical Characterisation:

Alkaline solution

2.2 Dangerous Ingredients:

CAS - No.	Index - No.	EEC - No.	Material	m% - range	Symbol	R - phrases
1310-58-3	019-002-00-8	215-181-3	Potassium hydroxide, caustic potash	10 - 20 %	C	R 22-35
111-90-0	n.av.	203-919-7	2-(Ethoxyethoxy)ethanol	40 - 60 %	Xi	R 36
112-34-5	603-096-00-8	203-961-6	2-(2-Butoxyethoxy)ethanol	10 - 20 %	Xi	R 36
141-43-5	603-030-00-8	205-483-3	2-Amino-ethanol	1 < C < 5 %	C	R 20/21/22-34
6834-92-0	014-010-00-8	229-912-9	Disodiummetasilicate	1 - 5 %	C	R 34-37

Remarks:

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

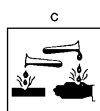
Exposure Controls / Personal Protection under item 8

R -phrase(s) under item 16

3 Hazards Identification

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

3.1.1 Classification :



R 35 Causes severe burns

3.1.2 Additional advice :

Risk of serious damage to eyes. May be harmful by inhalation, ingestion, skin adsorption. May be irritant by inhalation by prolonged exposure.

Strong exothermic reaction with water. Reacts violently in contact with acids.

3.2 For the Environment :

Do not flush into surface water or sanitary sewer system.

Solutions with high pH-value must be neutralized before discharge.

3.3 For Materials:

Gives off hydrogen by reaction with metals.

4 First Aid Measures

4.1 Inhalation:

Move to fresh air in case of accidental inhalation of vapours.

In the case of inhalation of aerosol/mist consult a physician if necessary.

4.2 Skin Contact :

Wash off immediately with plenty of water.

Consult a physician.

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- 4.3 **Eye Contact :**
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- 4.4 **Ingestion :**
Do not induce vomiting. Clean mouth with water and drink afterwards plenty of water.
Call a physician immediately.
- 4.5 **Note to Physician:**
Most important hazards: Stomach perforation
Main symptoms: Nausea, headache.
- 4.6 **Special Equipment:**
n.av.

5 Fire Fighting Measures

- 5.1 **Suitable Extinguishing Media :** Foam, powder, carbon dioxide, water.
- 5.2 **Extinguishing Media to Avoid :** None.
- 5.3 **Fire and Explosion Hazards :**
In the event of fire dust, carbon oxides, nitrogen oxides may be formed.
- 5.4 **Additional Information :** Hose down gases, fumes and/or dust with water.
Water mist may be used to cool closed containers.
- 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.
Use personal protective equipment. Keep away from sources of ignition - No smoking.
- 6.2 **Environmental Precautions and Methods for Cleaning up :**
Do not flush into surface water or sanitary sewer system. Contact the proper local authorities.
Keep in suitable, closed containers for disposal.
- 6.3 **Further Information :** None.

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

- 7.1 **Handling**
- 7.1.1 **Precautions for Safe Handling :**
Keep container tightly closed. Always replace cap after use. Avoid formation of aerosol.
Keep away from sources of ignition - No smoking. Ensure adequate ventilation, especially in confined areas.
- 7.1.2 **Precautions in Case of Fire and Explosion :**
None.
- 7.2 **Storage**
- 7.2.1 **Storage Instructions :**
Solvent resistant, bases resisting floor. Keep only in the original container.
Unsuitable materials: Dissolves aluminium and zinc slowly with formation of hydrogen.
- 7.2.2 **Store away from :**
Do not store together with acids, oxidizing agents.
- 7.2.3 **Further Information on Storage Conditions :**
Keep locked-up and out of the reach of children.
- 7.2.4 **Storage Class :** 8 B (VCI - Concept)

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8 Exposure Controls and Personal Protection**8.1 Information on System Design :**

Provide personal protective equipment.

8.2 Exposure Limits:**8.2.1 CAS / Material**

Limit Value according to TRGS 900/ EEC Guidline 2000/39:

112-34-5 / 2-(2-Butoxyethoxy)ethanol

TLV 100 mg/m³, Y, =1=

141-43-5 / 2-Amino-ethanol

TLV 2 ppm, 5,1 mg / m³ skin resorptive, Y, =1=

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

Do not inhale aerosol. Avoid contact with the skin and the eyes. Take off all contaminated clothing immediately. When using, do not eat, drink or smoke.

8.3.2 Respiratory Protection : In the case of dust or aerosol formation use respirator with filter model P2.**8.3.3 Hand Protection :** Impervious butyl rubber gloves.

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

8.3.4 Eye Protection : Tightly fitting safety goggles / face-shield.**8.3.5 Skin Protection :** Impervious clothing.**8.3.6 Further Information :** No.**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 :**

14, pH-value, 1% aqueous solution : n.av.

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

n.av., Melting point / Melting range (°C) : n.av.

9.2.3 Flash point (°C, c.c.) :

n.av.

9.2.4 Flammability (EEC A10/A13) :

n.av.

9.2.5 Ignition temperature (°C) :

n.av.

9.2.6 Autoflammability (EEC A16) :

n.ap.

9.2.7 Oxidising properties :

n.ap.

9.2.8 Explosion hazard :

n.ap.

9.2.9 Explosion limits (Vol.%) lower :

n.av., upper : n.av.

9.2.10 Vapour pressure :

n.av.

9.2.11 Density (g/ml) :

1,32

9.2.12 Solubility (in Water) :

miscible

9.2.13 Partition coefficient, n-Octanol/Water :

n.av.

9.2.14 Viscosity :

n.av.

9.2.15 Solvent separation test :

n.av.

9.2.16 Solvent content (m %) :

~ 70

9.2.17 Fat solubility :

yes

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

n.av.

9.3.2 Vapour density (Air = 1) :

n.av.

9.3.3 Evaporation rate :

n.av.

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

Humid air and water.

10.2 Materials to Avoid :

Gives off hydrogen by reaction with metals.

10.3 Hazardous Decomposition Products :

No decomposition if used as directed.

10.4 Further Information :

None.

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

Inhalation, LC₅₀ rat, (mg/l/4h) : n.av.
 Ingestion, LD₅₀ rat, (mg/kg) : n.av.
 Skin - contact, LD₅₀ rat, (mg/kg) : n.av.
 Irritation (to skin / eye) : Causes severe caustic burns to skin and eyes.
 Sensitisation : None.

11.1.2 Subacute / Chronic Toxicity :

Carcinogenicity : None.
 Mutagenicity : None.
 Teratogenicity : There is no reason to fear a risk to humans when the exposure limit is adhered to.
 Narcotic Effects : None.

11.2 Practical Experience**11.2.1 Observations relevant for classification :**

None.

11.2.2 Further Observations :

None.

11.3 General Remarks :

Classification of the preparation has been done by calculation in accordance with 1999/45/EEC.

12 Ecological Information**12.1 Elimination (Persistence and Degradability) :**

Biological degradability: 93, 4 %

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 : n.av.
 12.4.2 BOD₅-Value, mg/g : n.av.
 12.4.3 AOX-Remarks : n.ap.
 12.4.4 Significant Components : solvent

13 Disposal Considerations (For national Regulations refer to item 15.)**13.1 Residues**

13.1.1 Recommendation : R 1 (91/156) Waste - Code - No. : 06 02 99
 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 : 8

Classification Code: C5

Packing Group: II

Instructions for Transportation in Tanks : Hazard-No. : 80

UN-No. : 1814

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14.1.1 Instruction Concerning Shipper's Declaration and Packaging :

Volume or Mass	Description of Goods	Risklabel	Packing - Code or marginal
5 l Plastic container	UN 1814 Potassium hydroxide - Solution	8	P001

14.1.2 Listed Cargo as per Appendix B.8 :**14.1.3 Additional Designation in the Shipper's Declaration : None. Inscription on Packaging :****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 : 8 UN-No. : 1814 Packing Group : II

14.3.1 EmS-Fire / Leak : F-A; S-B MFAG-Table : Compendium dated from 01.02.2001**14.3.2 Marine Pollutant : No.****14.3.3 Instruction for Declaration and Labelling :**

(Packing sizes with possible exemptions not considered)

Proper Shipping Name : Potassium hydroxide - solution**Risk Label :** Corrosive**14.3.4 Remarks : None.****14.4 Classification for Transportation by Aeroplane according to IATA-DGR/ICAO-TI****Remarks :**

Class : 8 UN-No. : 1814 Packing Group : II

14.4.1 Instruction for Declaration and Labelling :

(Packing sizes with possible exemptions not considered)

Proper Shipping Name : Potassium hydroxide - solution**Risk Label :** Corrosive

Packing Instructions, Passenger : 809 Cargo : 813

14.4.2 Remarks : None.**15 Regulatory Information****15.1 Classification according to EEC-Regulations :**

Classification required by EEC : Yes.

Hazard Identification : Corrosive

Component(s) : Contains potassium hydroxide, caustic potash

R-Phrases :

R 35 - Causes severe burns.

S-Phrases :

S 1/2 - Keep locked-up and out of the reach of children.

S 26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

S 45 - In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).

Applicable Exemptions : No.

Hazard Symbol(s) :

**15.1.1** The above mentioned classification is valid for distribution to industrial user.

Labelling (formats, exemptions, additional markings) has to be done according to respective regulations.

16 Other Information**R-Phrases :**

R 35 - Causes severe burns.

The statements in this Material Safety Data Sheet were made to the best of our knowledge (2004/73/EEC) 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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