

## Material Safety Data Sheet According to 91/155 EEC

Printing date 02.04.2007

version number 4

Reviewed on 02.04.2007

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

\***Trade name:** ALUMINIUM ICP STANDARD SOLUTION

\***Article number:** PAL2B3

\***Application of the substance / the preparation** Laboratory chemicals

\***Manufacturer/Supplier:**

Reagecon Diagnostics Ltd.  
Shannon Free Zone,  
Shannon,  
Co. Clare,  
IRL.

Tel +353 61 472622

Fax +353 61 472642


\***Further information obtainable from:** EMERGENCY CONTACT NUMBER :- 353-87-7828692

### 2 Composition/information on ingredients

\***Chemical characterization**

\***Description:** Mixture of substances listed below with nonhazardous additions.

\***Dangerous components:**

CAS: 7647-01-0	hydrogen chloride	 C,  Xi; R 34-37	2.5-10%
EINECS: 231-595-7			

\***Additional information:** For the wording of the listed risk phrases refer to section 16.

### 3 Hazards identification

\***Hazard description:** Not applicable.

\***Information concerning to particular hazards to man and environment:**

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

\***Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 4 First-aid measures

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

\***After inhalation:** Supply fresh air; consult doctor in case of complaints.

\***After skin contact:** Generally the product does not irritate the skin.

\***After eye contact:** Rinse opened eye for several minutes under running water.

\***After swallowing:** If symptoms persist consult doctor.

IRL

(Contd. on page 2)

## Material Safety Data Sheet According to 91/155 EEC

Printing date 02.04.2007

version number 4

Reviewed on 02.04.2007

**Trade name: ALUMINIUM ICP STANDARD SOLUTION**

(Contd. of page 1)

### 5 Fire-fighting measures

**\*Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**\*Protective equipment:** No special measures required.

### 6 Accidental release measures

**\*Person-related safety precautions:** Not required.

**\*Measures for environmental protection:** Dilute with plenty of water.

**\*Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**\*Additional information:** No dangerous substances are released.

### 7 Handling and storage

**\*Handling:PPE to be worn. See section 8**

**\*Information for safe handling:** No special measures required.

**\*Information about fire - and explosion protection:** No special measures required.

**\*Storage:**

**\*Requirements to be met by storerooms and receptacles:** No special requirements.

**\*Information about storage in one common storage facility:** Not required.

**\*Further information about storage conditions:** None.

### 8 Exposure controls/personal protection

**\*Additional information about design of technical facilities:** No further data; see item 7.

**\*Ingredients with limit values that require monitoring at the workplace:**

**7647-01-0 hydrogen chloride**

OELV (Ireland)	Short-term value: 14 mg/m <sup>3</sup> , 10 ppm Long-term value: 7 mg/m <sup>3</sup> , 5 ppm
PEL (USA)	Short-term value: C 7 mg/m <sup>3</sup> , C 5 ppm
REL (USA)	Short-term value: C 7 mg/m <sup>3</sup> , C 5 ppm
TLV (USA)	Short-term value: C 2.98 mg/m <sup>3</sup> , C 2 ppm
IOELV (European Union)	Short-term value: 15 mg/m <sup>3</sup> , 10 ppm Long-term value: 8 mg/m <sup>3</sup> , 5 ppm

**\*Additional information:** The lists valid during the making were used as basis.

**\*Personal protective equipment:**

**\*General protective and hygienic measures:**

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

**\*Respiratory protection:** Not required.

**\*Protection of hands:**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

(Contd. on page 3)

**Material Safety Data Sheet**  
According to 91/155 EEC

Printing date 02.04.2007

version number 4

Reviewed on 02.04.2007

**Trade name: ALUMINIUM ICP STANDARD SOLUTION**

(Contd. of page 2)

*Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation*

**\*Material of gloves**

*The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.*

**\*Penetration time of glove material**

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.*

**\*Eye protection:** Goggles recommended during refilling

**9 Physical and chemical properties**

**\*General Information**

<b>Form:</b>	Liquid
<b>Colour:</b>	According to product specification
<b>Odour:</b>	Characteristic

**\*Change in condition**

**Melting point/Melting range:** 0°C  
**Boiling point/Boiling range:** 100°C

**\*Flash point:** Not applicable.

**\*Self-igniting:** Product is not selfigniting.

**\*Danger of explosion:** Product does not present an explosion hazard.

**\*Density:** Not determined.

**\*Solubility/ miscibility with water:** Fully miscible.

**\*Solvent content:**  
**Organic solvents:** 0.0 %

**10 Stability and reactivity**

**\*Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**\*Dangerous reactions** No dangerous reactions known.

**\*Dangerous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

**\*Acute toxicity:**

**\*Primary irritant effect:**

**\*on the skin:** No irritant effect.

**\*on the eye:** No irritating effect.

**\*Sensitization:** No sensitizing effects known.

(Contd. on page 4)

## Material Safety Data Sheet According to 91/155 EEC

Printing date 02.04.2007

version number 4

Reviewed on 02.04.2007

**Trade name: ALUMINIUM ICP STANDARD SOLUTION**

(Contd. of page 3)

**\*Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

**12 Ecological information**

**\*General notes:** Generally not hazardous for water

**13 Disposal considerations****\*Product:**

**\*Recommendation** Smaller quantities can be disposed of with household waste.

**\*Uncleaned packaging:**

**\*Recommendation:** Disposal must be made according to official regulations.

**\*Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**14 Transport information**

**\*Land transport ADR/RID (cross-border)**

**\*ADR/RID class:** -

**\*Maritime transport IMDG:**

**\*Marine pollutant:** No

**\*Transport/Additional information:** Not dangerous according to the above specifications.

**15 Regulatory information****\*Labelling according to EU guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).

**\*Special labelling of certain preparations:**

Safety data sheet available for professional user on request.

**\*National regulations:**

**\*Waterhazard class:** Generally not 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.

(Contd. on page 5)

**Material Safety Data Sheet**  
**According to 91/155 EEC**

Printing date 02.04.2007

version number 4

Reviewed on 02.04.2007

**Trade name: ALUMINIUM ICP STANDARD SOLUTION**

(Contd. of page 4)

**\*Department issuing MSDS: Safety Officer**

**\*Contact: Mr. Sean Murphy**

IRL