

Safety Data Sheet according to 1907/2006/EC, Article 31

Printing date 01.06.2007

version number 7

Revision: 22.12.2006

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

***Trade name:** MANGANESE ICP STANDARD SOLUTION

***Article number:** PMN4B2

***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:**

Health & Safety Department Ext 648

EMERGENCY CONTACT NUMBER AVAILABLE 08.00 to 22.00 :- 353-87-7828692

email: sean.murphy@reagecon.ie

2 Hazards identification

***Hazard description:**



Xi Irritant

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

The product has been classified and labelled in accordance with EU Directive 99/45/EC and all other EU Directives referred to therein.

R 36/38 Irritating to eyes and skin.

***Classification system:**

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

3 Composition/information on ingredients

***Chemical characterization**

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

***Dangerous components:**

CAS: 7697-37-2	nitric acid	C, O; R 8-35	≤ 2.5%
EINECS: 231-714-2			

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

4 First-aid measures

***After inhalation:** In case of unconsciousness place patient stably in side position for transportation.

***After skin contact:** Immediately wash with water and soap and rinse thoroughly.

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***After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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

5 Fire-fighting measures

***Suitable extinguishing agents:**

CO₂, 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.

Do not allow to enter sewers/ surface or ground water.

***Measures for cleaning/collecting:**

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

7 Handling and storage

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

***Information for safe handling:** Keep receptacles tightly sealed.

***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:** Keep receptacle tightly sealed.

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:**

7697-37-2 nitric acid

<p>OELV (Ireland)</p> <p>PEL (USA)</p> <p>REL (USA)</p> <p>TLV (USA)</p> <p>IOELV (European Union)</p>	<p>Short-term value: 10 mg/m³, 4 ppm</p> <p>Long-term value: 5 mg/m³, 2 ppm</p> <p>5 mg/m³, 2 ppm</p> <p>Short-term value: 10 mg/m³, 4 ppm</p> <p>Long-term value: 5 mg/m³, 2 ppm</p> <p>Short-term value: 10 mg/m³, 4 ppm</p> <p>Long-term value: 5.2 mg/m³, 2 ppm</p> <p>Short-term value: 2.6 mg/m³, 1 ppm</p>
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***Additional information:** The lists valid during the making were used as basis.

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***Personal protective equipment:**

***General protective and hygienic measures:**

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

***Respiratory protection:** Not required.

***Protection of hands:**



Protective gloves

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.

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:**



Tightly sealed goggles

9 Physical and chemical properties

***General Information**

Form:	Liquid
Colour:	According to product specification
Odour:	Characteristic

***Change in condition**

Melting point/Melting range: Undetermined.
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 at 20°C:** 1.16106 g/cm³

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***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:** Irritant to skin and mucous membranes.

***on the eye:** Irritating effect.

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

***Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

12 Ecological information

***General notes:**

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

13 Disposal considerations

***Product:**

***Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

***Uncleaned packaging:**

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

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

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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:**

The product has been classified and marked in accordance with EU Directive 99/45/EC and all other EU Directives referred to therein.

***Code letter and hazard designation of product:**



Xi Irritant

***Risk phrases:**

36/38 Irritating to eyes and skin.

***Safety phrases:**

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

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

***National regulations:**

***Technical instructions (air):**

Class	Share in %
Water	93.5
III	4.5

***Waterhazard class:** Water hazard class 3 (Self-assessment): extremely 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.

***Department issuing MSDS:** Safety Officer

***Contact:** Mr. Sean Murphy