

Material Safety Data Sheet According to 91/155 EEC

Printing date 19.01.2007

version number 6

Reviewed on 22.12.2006

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

***Trade name:** INORGANIC ELECTRODE

***Article number:** IECS5

***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 :- 353-87-7976154

2 Composition/information on ingredients

***Chemical characterization**

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

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

3 Hazards identification

***Hazard description:**



Xn Harmful

***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 40 Limited evidence of a carcinogenic effect.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 63 Possible risk of harm to the unborn child.

***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

***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.

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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:***Inform respective authorities in case of seepage into water course or sewage system.**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).**Dispose contaminated material as waste according to item 13.**Ensure adequate ventilation.*

7 Handling and storage

Handling:PPE to be worn. See section 8**Information for safe handling:***Ensure good ventilation/exhaustion at the workplace.**Prevent formation of aerosols.****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:***The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.****Additional information:** *The lists valid during the making were used as basis.****Personal protective equipment:*****General protective and hygienic measures:***Keep away from foodstuffs, beverages and feed.**Wash hands before breaks and at the end of work.**Do not inhale gases / fumes / aerosols.****Respiratory protection:***In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.*

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*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: Goggles recommended during refilling

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.

*Ignition temperature: 440.0°C

*Self-igniting: Product is not selfigniting.

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

*Density at 20°C: 1.03428 g/cm³

*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.

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

11 Toxicological information

***Acute toxicity:**

***LD/LC50 values relevant for classification:**

62-56-6 thiourea

Oral	LD50	1750 mg/kg (rat)
Dermal	LD50	2800 mg/kg (rbt)

***Primary irritant effect:**

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

***on the eye:** No 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:

12 Ecological information

***Ecotoxicological effects:**

***Remark:** Harmful to fish

***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.

Harmful to aquatic organisms

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.

14 Transport information

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

***ADR/RID class:** -

***Maritime transport IMDG:**

***IMDG Class:** -

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***Marine pollutant:** No

***Air transport ICAO-TI and IATA-DGR:**

***ICAO/IATA Class:** -

***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:**



Xn Harmful

***Hazard-determining components of labelling:**

thiourea

***Risk phrases:**

40 Limited evidence of a carcinogenic effect.

52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

63 Possible risk of harm to the unborn child.

***Safety phrases:**

23 Do not breathe fumes/aerosol.

36/37 Wear suitable protective clothing and gloves.

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

61 Avoid release to the environment. Refer to special instructions/safety data sheets.

***National regulations:**

***Technical instructions (air):**

Class	Share in %
Water	92.1
I	7.6

***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.

***Relevant R-phrases**

22 Harmful if swallowed.

40 Limited evidence of a carcinogenic effect.

51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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63 *Possible risk of harm to the unborn child.*

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

****Contact: Mr. John O'Keeffe***

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