

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

\*Product identifier

\*Trade name: AMMONIUM ISE IONIC STRENGTH

\*Article number: ISANH45

\*Relevant identified uses of the substance or mixture and uses advised against

\*Application of the substance / the preparation Laboratory chemicals

\*Details of the supplier of the safety data sheet

\*Manufacturer/Supplier:

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

Tel +353 61 472622

Fax +353 61 472642

\*Further information obtainable by contacting: [sds@reagecon.ie](mailto:sds@reagecon.ie)

\*Emergency telephone number:

24 HOUR EMERGENCY CONTACT NUMBER AVAILABLE :- If phoning from USA 011-353-87-9518207,  
If phoning from Rest of World 00-353-87-9518207

## 2 Hazards identification

\*Classification of the substance or mixture

\*Classification according to Regulation (EC) No 1272/2008



Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

\*Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

\*Information concerning particular hazards for human 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.

\*Label elements

\*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.

\*Other hazards

\*Results of PBT and vPvB assessment

\*PBT: Not applicable.

\*vPvB: Not applicable.

### **3 Composition/Information on ingredients**

*\*Chemical characterization: Mixtures*

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

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Trade name: AMMONIUM ISE IONIC STRENGTH

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**\*Dangerous components:**

CAS: 7447-41-8	lithium chloride	10-25%
EINECS: 231-212-3	☒ Xn R22; ☒ Xi R36/38 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	

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

#### 4 First aid measures

**\*Description of 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.

**\*Information for doctor:**

\*Most important symptoms and effects, both acute and delayed No further relevant information available.

\*Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

#### 5 Firefighting measures

**\*Extinguishing media**

**\*Suitable extinguishing agents:**

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

\*Special hazards arising from the substance or mixture No further relevant information available.

**\*Advice for firefighters**

\*Protective equipment: No special measures required.

#### 6 Accidental release measures

\*Personal precautions, protective equipment and emergency procedures Not required.

**\*Environmental precautions:**

Dilute with plenty of water.

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

**\*Methods and material for containment and cleaning up:**

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

**\*Reference to other sections**

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

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

\*Precautions for safe handling No special measures required.

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

**\*Conditions for safe storage, including any incompatibilities**

**\*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.

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*\*Specific end use(s) No further relevant information available.*

## 8 Exposure controls/personal protection

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

*\*Control parameters*

*\*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.*

*\*Exposure controls*

*\*Personal protective equipment:*

*\*General protective and hygienic measures:*

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

*\*Respiratory protection: Suitable respiratory protective device recommended.*

*\*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.*

*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

*\*Information on basic physical and chemical properties*

*\*General Information*

*\*Appearance:*

*Form: Liquid*

*Colour: According to product specification*

*\*Odour: Characteristic*

*\*Odour threshold: Not determined.*

*\*pH-value: Not determined.*

*\*Change in condition*

*Melting point/Melting range: Undetermined.*

*Boiling point/Boiling range: 100°C*

*\*Flash point: Not applicable.*

*\*Flammability (solid, gaseous): Not applicable.*

*\*Ignition temperature:*

*Decomposition temperature: Not determined.*

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

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

<b>*Explosion limits:</b>	
<i>Lower:</i>	<i>Not determined.</i>
<i>Upper:</i>	<i>Not determined.</i>
<b>*Vapour pressure at 20°C:</b>	23 hPa
<b>*Density at 20°C:</b>	1.27098 g/cm <sup>3</sup>
<b>*Relative density</b>	<i>Not determined.</i>
<b>*Vapour density</b>	<i>Not determined.</i>
<b>*Evaporation rate</b>	<i>Not determined.</i>
<b>*Solubility/ miscibility with water:</b>	Fully miscible.
<b>*Segregation coefficient (n-octanol/water):</b>	<i>Not determined.</i>
<b>*Viscosity:</b>	
<i>Dynamic:</i>	<i>Not determined.</i>
<i>Kinematic:</i>	<i>Not determined.</i>
<b>*Solvent content:</b>	
<i>Organic solvents:</i>	0.0 %
<b>*Other information</b>	<i>No further relevant information available.</i>

## 10 Stability and reactivity

- \*Reactivity**
- \*Chemical stability**
- \*Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- \*Possibility of hazardous reactions** *No dangerous reactions known.*
- \*Conditions to avoid** *No further relevant information available.*
- \*Incompatible materials:** *No further relevant information available.*
- \*Hazardous decomposition products:** *No dangerous decomposition products known.*

## 11 Toxicological information

- \*Information on toxicological effects**
- \*Acute toxicity:**
- \*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 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

- \*Toxicity**
- \*Aquatic toxicity:** *No further relevant information available.*
- \*Persistence and degradability** *No further relevant information available.*
- \*Behaviour in environmental systems:**
- Bioaccumulative potential* *No further relevant information available.*
- Mobility in soil* *No further relevant information available.*

**\*Additional ecological information:****\*General notes:**

*Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.*

**\*Results of PBT and vPvB assessment**

**\*PBT:** *Not applicable.*

**\*vPvB:** *Not applicable.*

**\*Other adverse effects** *No further relevant information available.*

**13 Disposal considerations****\*Waste treatment methods**

**\*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****\*UN-Number**

**\*ADR, ADN, IMDG, IATA** *Void*

**\*UN proper shipping name**

**\*ADR, ADN, IMDG, IATA** *Void*

**\*Transport hazard class(es)**

**\*ADR, ADN, IMDG, IATA**

**\*Class** *Void*

**\*Packing group**

**\*ADR, IMDG, IATA** *Void*

**\*Environmental hazards:**

**\*Marine pollutant:** *No*

**\*Special precautions for user** *Not applicable.*

**\*Transport in bulk according to Annex II of**

*MARPOL 73/78 and the IBC Code* *Not applicable.*

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

**\*UN "Model Regulation":** *-*

**15 Regulatory information**

**\*Safety, health and environmental regulations/legislation specific for the substance or mixture**

**\*National regulations:**

**\*Waterhazard class:** *Water hazard class 1 (Self-assessment): slightly hazardous for water.*

**\*Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

**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 Phrases:**

*H302 Harmful if swallowed.*

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*R22 Harmful if swallowed.*

*R36/38 Irritating to eyes and skin.*

**\*Department issuing MSDS: Health and Safety**

**\*Contact: [sds@reagecon.ie](mailto:sds@reagecon.ie)**

**\*Abbreviations and acronyms:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*ICAO: International Civil Aviation Organization*

*GHS: Globally Harmonized System of Classification and Labelling of Chemicals*

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