

**GENERAL NOTE TO USERS OF *ECONICBOARD*:**

The *Control of Substances Hazardous to Health Regulations* (COSHH) require Employers to carry out an assessment of the risks to the health and safety of employees who may be exposed to hazardous substances and to take appropriate precautions to adequately control the risks.

This Safety Data Sheet has been prepared in accordance with the requirements of REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) to provide you with all relevant information on the composition, safety and environmental data and appropriate control measures to assist you in the preparation of your own Assessments and to safely use our product.

Should you have any queries or require further information on *Econicboard* please contact us using the contact details presented in Section 1.3.

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

|            |  |
|------------|--|
| <b>1.1</b> | <p><b>Product identifier:</b></p> <p><i>Econicboard</i> (Trademarked product name)</p>   |
| <b>1.2</b> | <p><b>Relevant identified uses of the substance or mixture and uses advised against:</b></p> <p><b>Uses:</b> General construction material</p> <p><b>Uses Advised Against:</b> None known or suspected</p>   |
| <b>1.3</b> | <p><b>Details of the supplier of the safety data sheet:</b></p> <p><b>Address:</b> Duncryne Ltd<br/>0/1 91 Hyndland Street<br/>Partickhill<br/>Glasgow<br/>G11 5PU</p> <p><b>Telephone details:</b> +44 (0) 141 576 0077</p> <p><b>e-Mail address:</b> keithj@duncryne.com</p> |
| <b>1.4</b> | <p><b>Emergency telephone number:</b></p> <p><b>Responsible advisory body:</b> N/A</p> <p><b>Telephone number:</b> N/A</p> <p><b>Hours of operation:</b> N/A</p> <p><b>Information restrictions:</b> N/A</p>   |

## SECTION 2: Hazards identification

|            |  |   |
|------------|--|---|
| <b>2.1</b> | <b>Classification of the substance or mixture:</b>   |   |
|            | <p><b>Econicboard comprises a proprietary mixture of materials. The following identifies the principal known classifications of the constituents, in accordance with current EC Regulations:</b></p> <p>R36/37/38 – “Irritating to Eyes, Respiratory System and Skin”<br/>[In respect of Magnesium Chloride component]</p> <p>R66 – “Repeated exposure may cause skin dryness or cracking”<br/>[In respect of Magnesium Chloride component]</p> <p>R42 – “May cause sensitisation by inhalation”<br/>[In respect of soft wood component]</p> <p><b><u>General Note on hazardous classification:</u></b></p> <p><b>Irritation:</b><br/>Dust from this product can cause irritation of the Respiratory Tract if inhaled.</p> <p>Dust from this product can also cause irritation of the Skin or Eyes upon contact.</p> <p><b>Chronic Effects:</b><br/>Chronic inhalation of dust from this product may lead to respiratory sensitisation.</p> <p><b>Alkalinity:</b><br/>This product is alkaline, with a pH of 9.74.</p> |   |
| <b>2.2</b> | <b>Label elements:</b>   |   |
|            |  <p>Xi – “Irritating to Eyes, Respiratory System and Skin”</p> <p>[Primarily associated with over-exposure to dust generated from this product].</p>  |   |
| <b>2.3</b> | <b>Other hazards:</b>  |   |
|            | <b>Health Hazards:</b>   | <p>This product is not classified as Persistent, Bioaccumulative or Toxic (PBT) in accordance with 1907/2006/EC.</p> <p>This product is not classified as very Persistent or very Bioaccumulative (vPvB) in accordance with 1907/2006/EC.</p> |
|            | <b>Environmental Hazards:</b>  | <p>There are no known significant environmental hazards associated with this product. As a matter of good practice avoid contaminating watercourses or sewage systems.</p>  |

## SECTION 3: Composition/information on ingredients

| Ingredient         | Conc (%w/w) | EC No.    | CAS No.    | Risk Phrases     |
|--------------------|-------------|-----------|------------|------------------|
| Magnesium Oxide    | >50%        | 215-171-9 | 1309-48-4  | -                |
| Magnesium Chloride | <30%        | 232-094-6 | 7786-30-3  | R36/37/38<br>R66 |
| Soft Wood Dust     | <10%        | -         | -          | R42              |
| Perlite            | <5%         | -         | 93763-70-3 | -                |
| Glass Fibre Mesh   | <5%         | 266-046-0 | 65997-17-3 | -                |

See Section 16 for the full text of the Risk Phrases

### **General Note on Composition:**

The above table is based on information provided directly from the manufacturer. The manufacturer confirms that the product does not contain asbestos, crystalline silica, hard wood or other hazardous substances, other than those identified within the table. The exact % are the intellectual property of Duncryne Ltd.

## SECTION 4: First aid measures

Note that the principal source of over-exposure relates to dust generated from working with the Econicboard. The following measures, therefore, relate principally to dust exposure:

|                          |  |
|--------------------------|--|
| <b>Skin Contact</b>      | Wash with soap and water. If discomfort or irritation persists, seek medical attention.  |
| <b>Eye Contact</b>       | Flush eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower eyelids. Seek medical attention.               |
| <b>Ingestion</b>         | Give one or two glasses of water or milk and induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention. |
| <b>Inhalation</b>        | Move victim to fresh air and allow them to rest. Seek medical attention.   |
| <b>Medical treatment</b> | Treat symptomatically. Existing respiratory conditions may be aggravated by exposure.  |

### **Symptoms and effects:**

**Eye:** May cause abrasions of the cornea.

**Skin:** May result in redness and dermatitis; prolonged exposure may cause dry skin.

**Ingestion:** Single dose oral toxicity is low. Greater amounts may cause diarrhea, cramp and gastric or intestinal trouble.

**Inhalation:** The condition of individuals with lung disease e.g. bronchitis, emphysema, chronic obstructive pulmonary disease, can be aggravated by exposure. Inhalation may also result in respiratory sensitisation.

## SECTION 5: Fire Fighting measures

|            |  |  |
|------------|--|--|
| <b>5.1</b> | <b>Extinguishing media</b>                                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. No special fire-fighting media required.                 |
| <b>5.2</b> | <b>Special hazards arising from the substance or mixture</b> | The material is not flammable, however significant heating or fire can cause degradation of the product and may emit toxic fumes.                                |
| <b>5.3</b> | <b>Advice for Fire Fighters</b>                              | The material is not flammable, combustible or explosive. In the event of fire, wear self-contained breathing apparatus and note special hazards detailed in 5.2. |

## SECTION 6: Accidental release measures

|            |  |   |
|------------|--|---|
| <b>6.1</b> | <b>Personal precautions, protective equipment and emergency procedures</b> | The aim should be to minimise exposure to, and accumulation of, significant levels of airborne dust. Ventilate affected areas and use Personal Protective Equipment as outlined in Section 8.2. Dampen material and use dustless cleaning methods (e.g. vacuum with HEPA filter). |
| <b>6.2</b> | <b>Environmental precautions</b>   | As a matter of good practice prevent the product from reaching watercourses or sewage systems.  |
| <b>6.3</b> | <b>Methods and material for containment and cleaning up</b>                | Use dustless methods (e.g. vacuum with HEPA filter) and place in a closable container for disposal, or flush with water (note Section 6.2). Do not dry sweep, which will generate airborne dust.  |
| <b>6.4</b> | <b>Reference to other sections</b>   | See Sections 8 and 13 for PPE and waste disposal advice respectively.   |

## SECTION 7: Handling and storage

|            |   |  |
|------------|---|--|
| <b>7.1</b> | <b>Precautions for safe handling</b>                                | Minimise exposure to airborne dusts. Use adequate ventilation and dust suppression / collection methods. Do not rely on your sight to determine if dust is in the air. Minimise skin and eye contact with dusts and wear appropriate gloves and/or barrier creams. |
| <b>7.2</b> | <b>Conditions for safe storage, including any incompatibilities</b> | No special storage conditions are required, however good practice would dictate storage in a cool, dry place. Avoid contact with strong Acids or Oxidising agents.   |
| <b>7.3</b> | <b>Specific end use(s)</b>  | General construction material.   |

## SECTION 8: Exposure controls / personal protection

Note that the relevant UK legislation for exposure to airborne substances (in this case airborne dusts) is the **Control of Substances Hazardous to Health Regulations 2002**, as amended (COSHH). The Exposure Limits provided in Table 8.1 relate to the relevant Workplace Exposure Limits (WEL's) defined in HSE Publication **EH40/2005 Workplace Exposure Limits (Second Edition, published 2011)**, produced in accordance with the COSHH Regulations.

|   |   |  |  |
|---|---|--|--|
| <b>8.1</b>                                      | <b>Exposure Limits:</b>                     |  |  |
|   | <b>Substance</b>                            | <b>Short Term Exposure Limit (15 min Ref Period)</b> | <b>Long Term Exposure Limit (8 hour time-weighted average)</b> |
|   | Magnesium Oxide (as Mg):<br>Inhalable Dust: | -  | 10mg/m3  |
|   | Respirable Dust:                            | -  | 4mg/m3   |
|   | Magnesium Chloride                          | -  | -  |
|   | Wood Dust                                   | -  | 5mg/m3   |
| Glass Fibre (Machine Made Mineral Fibre – MMMF) | -   | 5mg/m3 and 2 fibres per millilitre                   |  |

### Advisory Exposure Limits:

**Perlite:** Note that EH40 does not provide a WEL for **perlite**. However, the National Institute for Occupational Safety and Health (NIOSH) in the US provides a long-term exposure limit of 10mg/m3 for inhalable dust and 5mg/m3 for respirable dust and this should be used as a guide to 'good practice'.

### Exposure Monitoring:

Note that the Employer is required to carry out a COSHH Assessment and it may be appropriate to carry out personal exposure monitoring as part of this Assessment to determine daily exposure levels of operatives and to assess compliance with the relevant WEL's.

|              |  |
|--------------|--|
| <b>8.2</b>   | <b>Exposure Controls:</b><br>[Note that the Employer is required to carry out a COSHH Assessment. The WEL's presented in Table 8.1 and the information provided below should be used in the preparation of the COSHH Assessment for work with Econicboard].  |
| <b>8.2.1</b> | <b>Appropriate Engineering Controls:</b><br>Minimise generation of, and exposure to, airborne dusts. Use adequate ventilation and dust suppression / collection methods, including Local Exhaust Ventilation (LEV). Ensure daily personal exposures are kept below relevant WEL's. See Section 6.3 for cleaning procedures.  |
| <b>8.2.2</b> | <b>Individual Protection Measures:</b><br>Do not rely on your sight to determine if dust is in the air. Minimise skin and eye contact with dusts and wear appropriate gloves and/or barrier creams. Where exposure to airborne dusts cannot be adequately controlled by engineering measures, goggles and suitable respiratory protective equipment (RPE) should be worn. Suitable RPE would be a half-face respirator fitted with a particulate filter of at least 'P2' but preferably 'P3' protection. Operatives wearing RPE should be provided with 'face-fit' tests for the RPE provided, as well as appropriate information, instruction and training on safe working methods, hazards and risks and use of protection measures. |
| <b>8.2.3</b> | <b>Environmental Exposure Controls:</b><br>There are no known significant environmental hazards associated with this product. However, the alkaline pH (9.74) may pose a risk to some watercourses and water-life if the product is permitted to break down in such environments. Therefore, as a matter of good practice, discharge or washing of the product or its dusts to water systems or sewerage should be prevented.  |

## SECTION 9: Physical and chemical properties

|            |  |  |
|------------|--|--|
| <b>9.1</b> | <b>Information on basic physical and chemical properties</b> |  |
|            | <b>Appearance</b>  | White Board. Glass Fibres and Wood Chips are visible upon microscopic inspection |
|            | <b>Odour</b>   | None   |
|            | <b>Odour threshold</b>                                       | None   |
|            | <b>pH</b>  | 9.74   |
|            | <b>Melting point</b>   | Not Applicable   |
|            | <b>Boiling point</b>   | Not Applicable   |
|            | <b>Flash point</b>   | Not Applicable   |
|            | <b>Evaporation rate</b>                                      | Not Applicable   |
|            | <b>Flammability</b>  | Inflammable  |
|            | <b>Upper / lower flammability or explosive limits</b>        | Not Applicable   |
|            | <b>Vapour pressure</b>                                       | Not Applicable   |
|            | <b>Vapour density</b>  | Not Applicable   |
|            | <b>Relative density</b>                                      | Unknown  |
|            | <b>Solubility</b>  | Insoluble in water   |
|            | <b>Partition coefficient</b>                                 | Not Applicable   |

|  |                                  |   |
|--|----------------------------------|---|
|  | <b>Auto-ignition temperature</b> | Not Applicable  |
|  | <b>Decomposition</b>             | May produce toxic gases upon decomposition by heating / fire. |
|  | <b>Viscosity</b>                 | Not Applicable  |
|  | <b>Explosive properties</b>      | None  |
|  | <b>Oxidising properties</b>      | None  |

|            |                          |     |
|------------|--------------------------|-----|
| <b>9.2</b> | <b>Other Information</b> | N/A |
|------------|--------------------------|-----|

## SECTION 10: Stability and reactivity

|             |   |   |
|-------------|---|---|
| <b>10.1</b> | <b>Reactivity</b>                         | Reaction with strong acids and strong oxidising agents may liberate chlorine gas.                   |
| <b>10.2</b> | <b>Chemical stability</b>                 | Stable under normal temperatures and pressures.   |
| <b>10.3</b> | <b>Possibility of hazardous reactions</b> | See 10.1.   |
| <b>10.4</b> | <b>Conditions to avoid</b>                | Avoid burning / heating to decomposition and contact with strong acids and strong oxidising agents. |
| <b>10.5</b> | <b>Incompatible materials</b>             | Strong acids and strong oxidising agents.   |
| <b>10.6</b> | <b>Hazardous decomposition products</b>   | May produce toxic gases upon decomposition by heating / fire.                                       |

## SECTION 11: Toxicological information

|             |  |   |
|-------------|--|---|
| <b>11.1</b> | <b>Information on toxicological effects</b><br>[See previous Sections for specific detail on hazardous nature of material] |   |
|             | <b>Acute toxicity</b>  | None known or suspected                         |
|             | <b>Irritation</b>  | Yes   |
|             | <b>Corrosivity</b>   | None known or suspected. Alkalinity of pH 9.74. |
|             | <b>Sensitisation</b>   | Yes   |
|             | <b>Repeated dose toxicity</b>  | None known or suspected                         |
|             | <b>Carcinogenicity</b>   | None known or suspected                         |
|             | <b>Mutagenicity</b>  | None known or suspected                         |
|             | <b>Toxicity for reproduction</b>   | None known or suspected                         |

## SECTION 12: Ecological information

|             |                                      |   |
|-------------|--------------------------------------|---|
| <b>12.1</b> | <b>Toxicity</b>                      | None known, however see Section 12.6.   |
| <b>12.2</b> | <b>Persistence and degradability</b> | This product is not classified as Persistent, Bioaccumulative or Toxic (PBT) in accordance with 1907/2006/EC. |

|             |   |  |
|-------------|---|--|
|             |   | This product is not classified as very Persistent or very Bioaccumulative (vPvB) in accordance with 1907/2006/EC.  |
| <b>12.3</b> | <b>Bioaccumulative potential</b>          | See Section 12.2.  |
| <b>12.4</b> | <b>Mobility in soil</b>                   | Low.   |
| <b>12.5</b> | <b>Results of PBT and vPvB assessment</b> | <p>This product is not classified as Persistent, Bioaccumulative or Toxic (PBT) in accordance with 1907/2006/EC.</p> <p>This product is not classified as very Persistent or very Bioaccumulative (vPvB) in accordance with 1907/2006/EC.</p>  |
| <b>12.6</b> | <b>Other adverse effects</b>              | There are no known significant environmental hazards associated with this product. However, the alkaline pH (9.74) may pose a risk to some watercourses and water-life if the product is permitted to break down in such environments. Therefore, as a matter of good practice, discharge or washing of the product or its dusts to water systems or sewerage should be prevented. |

## SECTION 13: Disposal considerations

|             |                                |   |
|-------------|--------------------------------|---|
| <b>13.1</b> | <b>Waste treatment methods</b> |   |
|             |                                | No special disposal measures believed to be required. |

## SECTION 14: Transport information

|             |                                     |   |
|-------------|-------------------------------------|---|
| <b>14.1</b> | <b>UN number</b>                    | N/A   |
| <b>14.2</b> | <b>UN proper shipping name</b>      | N/A   |
| <b>14.3</b> | <b>Transport hazard class(es)</b>   | N/A   |
| <b>14.4</b> | <b>Packing group</b>                | N/A   |
| <b>14.5</b> | <b>Environmental hazards</b>        | There are no known significant environmental hazards associated with this product. As a matter of good practice avoid contaminating watercourses or sewage systems. |
| <b>14.6</b> | <b>Special precautions for user</b> | None anticipated for packaged product. See fire fighting precautions in the event of fire.  |

|             |  |     |
|-------------|--|-----|
| <b>14.7</b> | <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | N/A |
|-------------|--|-----|

## SECTION 15: Regulatory information

|             |  |
|-------------|--|
| <b>15.1</b> | <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>  |
|             | Control of Substances Hazardous to Health Regulations 2002, as amended.<br><br>HSE Guidance Note EH40 Workplace Exposure Limits.<br><br>General requirements relating to Environmental Protection under the Environmental Protection Act and subordinate / associated legislation. |
| <b>15.2</b> | <b>Chemical safety assessment</b>  |
|             | None carried out.  |

## SECTION 16: Other information

### Definitions of Risk Phrases:

R36/37/38 – “Irritating to Eyes, Respiratory System and Skin”  
R66 – “Repeated exposure may cause skin dryness or cracking”  
R42 – “May cause sensitisation by inhalation”

### Status of Safety Data Sheet:

This Safety Data Sheet was researched and prepared with the full co-operation of the *Econicboard* manufacturer and utilising information available at 23<sup>rd</sup> January 2012. All reasonable steps have been taken to provide accurate and reliable data.