# MATERIAL SAFETY DATA SHEET

(According ECC direction 91/155/EEG)

| **Product name : POLYSECC ECCO** | **Date: 14/05/09** |
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## 1. Identification of the product and of the company

Identification of product : PolySecc Ecco
Supplier : Enluse bv
**Heusing 1 , 4817 ZB Breda Pays-Bas**

**Tel. +31 (0)765 781 280**

## 2. Composition/information on ingredients

Chemical description : : Orange to green indication Silica Gel
Formula : SiO2

| Component | value | CAS nr. | Symbols | R-sentence |
|---|---|---|---|---|
| Amorphous silica SiO2 | 98,2 % | 112926-00-8 | - | - |
| Indicator agent | 0,2 % | | - | - |

## 3. Hazards identification of the product

Do not breathe dust or exceed the exposure limit.

## 4. First aid measures

After inhalation : Remove from source of exposure.
After skin contact : Wash spillage from skin with soap and water.
After eye contact : immediately flush eyes with copious amounts of running water (for 10 minutes), if necessary obtain medical attention.
After ingestion : flush oral cavity, if large amount swallowed or symptoms develop obtain medical attention

## 5. Fire-fighting measures

Suitable extinguishing media : not applicable, Inorganic compound, not combustible.

## 6. Accidental release measures

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| Personal precautions | : Do not inhale. Wear appropriate protective clothing dust mask essential if conditions are dusty. See section 8 for exposure limits; |
| Environmental precautions | : contain spillage. Collect in suitable containers for recovery or disposal. During collection avoid creating dust. |
| Methods of cleaning up/of removing | : remove mechanically |

## 7. Handling an storage

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| Handling | : avoid creating dust. Do not smoke. During handling electrostatic charges can accumulate ( see BS5958 for advice on the control of static ) |
| Storage | : keep container air thigh and kept in dry place. |

## 8. Exposure controls / personal protection

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| Occupational exposure standards | : Silica Amorphous ( SA ), total inhalable dust : UK EH40 : OES 6mg/m3 8h TWA<br>SA, respirable dust : UK EH40 : OES 2,4 mg/m3 8h TWA.<br>Silica Gel : ACGIH : TLV 10 mg/m3 8h TWA.<br>Activation agent : ACGIH : 0.5 mg/m3 8h TWA. |
| Components with specific | : Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation ( dilution and local exhaust ) and control of process conditions. |
| control parameters | |
| Respiratory protection | : avoid inhalation of dust, wear suitable respiratory protective equipment if working in confined spaces with inadequate ventilation or whenever there is any risk of the exposure limits being exceeded. |
| Personal protection | |
| -hand protection | : wear suitable protective gloves |
| -eye protection | : wear suitable eye protection |
| Protection during application | : handle in well ventilated conditions in accordance with good industrial hygiene and safety practices. |

## 9. Physical an chemical properties

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| Physical state | : beads |
| Colour | : dry :yellow/orange, saturated : green |
| Odour | : odourless |
| pH | : 2-10 at 5% w/w in water |

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| Melting point | : > 1000 °C |
| Flash point | : not applicable |
| Bulk density | : 720 kg /M3 |
| Solubility | : less 1.0 % in weight |
| Thermal decomposition | : stable, except when saturated water is released during regeneration |

## 10. Stability and reactivity

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| Stability | : hygroscopic |
| Conditions to avoid | : high temperatures in excess of 155 °C |
| Materials to avoid | : none known |
| Hazardous decomposition products | : hygroscopic material |

## 11. Toxicological information

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| Toxicity | : the lethal dose for humans for synthetic amorphous Silicate (SAS), is estimated at over 15,000 mg / kg. |
| Health effect inhalation | : SAS gel has little adverse effect on lungs and does not produce significant disease or toxic effect when exposure is kept below the permitted limits. However existing medical conditions ( asthma , bronchitis ) may be aggravated by exposure to dust. Effects of dust may be greater and occur at lower levels of exposure in smokers compared to non smokers. |
| Ingestion | : - |
| Eye contact | : dust may cause discomfort and mild irritation |
| Skin contact | : dust may have a drying effect on the skin |
| Carcinogenicity | : Amorphous silica is not classifiable as to its carcinogenicity to humans ( group 3 ). |

## 12. Ecological information

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| Eco toxicity | : SAS is virtually inert and has no known adverse effect on the environment |

## 13. Disposal considerations

Product disposal : Product can be reactivated in an oven for re-use. This material is not classified as hazardous waste under EEC Directive 91/689/EEC. Dispose of in accordance with all applicable local and national regulations. This material is not classified as special waste under UK Special waste regulations. 1996 and can be disposed of by landfill at an approved site.

## 14. Transport information

Not a hazardous material according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ECAO-TI/IATA-DGR. Not classified as dangerous goods under the UN transport recommendations.

## 15. Regular information

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| Symbols of danger | : not subject of the identification regulations |
| EC classification | : this product is not classified as dangerous. |
| S phrases | : handle in accordance with good industrial hygiene and safety practices. Avoid inhalation of dust. |

## 16. Other information

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| MSDS first issue | : 18/04/2000 |
| MSDS revision | : 20/11/2002 |

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. The document is intended as a guide for safe handling, storage and use in known industrial applications.

MSDS according to EEC/91/155.