



MATERIAL safety data sheet
in compliance with Reg. (EC) Nr.1907/2006, 1272/2008, 453/2010

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

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| 1.1. PRODUCT IDENTIFIER | Substance : Kaolin calcined CAS 92704-41-1 REACH Registration number: Exempted according to Annex V.7. Trade name: METAVER I, METAVER M, METAVER N Chemical name/synonyms: metakaolin |
| 1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST | Building materials Paints and Coatings Adhesives and Sealants Ceramics |
| 1.3 DETAIL OF THE SUPPLIER OF THE SAFETY DATA SHEET | Newchem AG Felsenstrasse 12 CH-8808 Pfäeffikon Switzerland Tel. +41 55 420 15 30 Fax: +41 55 420 15 30 www.newchem.info bezard@newchem.org |

2. HAZARDS IDENTIFICATION

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| EMERGENCY OVERVIEW | This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008 and in Directive 67/548/EEC. Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica (quartz) may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable crystalline silica dust should be monitored and controlled. This product should be handled with care to avoid dust generation. REGULATION EC 1272/2008: No classification CLASSIFICATION EU (67/548/EEC) : No classification This product contains less than 1% quartz (respirable) CLASSIFICATION EU (67/548/EEC) : No classification |
| OTHER HAZARDS | This product is an inorganic substance and does not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH. |
| EYE | Dust may irritate the eyes mechanically |
| SKIN CONTACT | Dust may irritate the skin mechanically |
| INHALATION | Dust may be irritating to respiratory system |
| INGESTION | No hazard |

3. COMPOSITION / INFORMATION ON INGREDIENTS

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| Calcined kaolin (> 90%) | CAS-Nr.: 92704-41-1, EINECS Nr.: 296-473-8 calcined kaolin is a UVCB substance (Substances of Unknown or Variable composition . . .) |
| Kaolinite (0 – 10%) | CAS-Nr.: 1332-58-7, EINECS Nr.: 310-194-1 |
| Quartz (respirable fraction <1%) | CAS Nr.: 14808-60-7, EINECS Nr.: 238-878-4 |

4. FIRST-AID MEASURES

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| EYE | Rinse with copious quantities of water and seek medical attention if irritation persists. |
| SKIN CONTACT | No special first aid measures necessary. Wash skin with soap and water. Use suitable lotion to moisturize skin. |
| INHALATION | Movement of the exposed individual from the area to fresh air is recommended |
| INGESTION | No first aid measure required. Rinse mouth thoroughly. Get medical attention if any discomfort continues. |

5. FIRE-FIGHTING MEASURES

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| EXTINGUISHING MEDIA | No specific extinguishing media is needed. |
| UNSUITABLE MEDIA | |
| SPECIAL FIREFIGHTING PROCEDURES | No specific fire-fighting protection is required. |
| FIRE & EXPLOSION HAZARDS | |
| HAZARDOUS COMBUSTION PRODUCTS | Non combustible. No hazardous thermal decomposition. |

6. ACCIDENTAL RELEASE MEASURES

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| Spill AND LEAK PROCEDURES | Avoid airborne dust generation, wear personal protective equipment in compliance with national legislation. Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation. |
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7. HANDLING AND STORAGE

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| STORAGE | Minimise airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting. Store in a dry covered area. |
| HANDLING / STORAGE | Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting. |

8. EXPOSURE CONTROL/PERSONAL PROTECTION

8.1. CONTROL PARAMETERS

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust).

The OES (Occupational Exposure Limit) for calcined kaolin dust is 2,5 mg/m³ in the UK. For the equivalent limits in other countries, please consult a competent occupational hygienist or the local regulatory authority.

8.2. EXPOSURE CONTROLS

8.2.1. OCCUPATIONAL EXPOSURE CONTROLS

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organizational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

8.2.2. INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT EYE PROTECTION REQUIREMENTS

Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries. Contact lenses should not be worn when working with this product.

SKIN PROTECTION

No specific requirement. For hands, see below. Appropriate protection (e.g. protective clothing, barrier cream) is recommended for workers who suffer from Dermatitis or sensitive skin.

WASH REQUIREMENTS

Wash hands at the end of each work session.

RESPIRATORY REQUIREMENTS

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation.

8.2.3 ENVIRONMENT EXPOSURE CONTROLS:

Avoid wind dispersal

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM

Solid powder

COLOUR

Off-white to reddish

ODOUR

Odourless

pH (100 g/l water at 20 °C)

8-10

BOILING POINT

MELTING - / FREEZING POINT

No available

SOLUTILITY IN WATER

Negligible (<10-2 g/L)

VISCOSITY

Not relevant

BULK DENSITY

About 400 kg/m³

EVAPORATION RATE

Not relevant

VAPOUR PRESSURE

Not relevant

LOWER EXPLOSION LIMIT (%)

Not relevant

UPPER EXPLOSION LIMIT (%)

Not relevant

AUTOFLAMMABILITY

Not relevant

FLASH POINT

Not relevant

DUST EXPLOSION CLASS

Not relevant

10. STABILITY AND REACTIVITY

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| 10.1. REACTIVITY | Inert, not reactive |
| 10.2. CHEMICAL STABILITY | Chemically stable. |
| 10.3. POSSIBILITY OF HAZARDOUS REACTIONS | No hazardous reactions |
| 10.4. CONDITIONS TO AVOID | Not relevant |
| 10.5. INCOMPATIBLE MATERIALS | No particular incompatibility |
| 10.6. HAZARDOUS DECOMPOSITION PRODUCTS | Not relevant |

11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

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| ACUTE TOXICITY | Based on available data, the classification criteria are not met. |
| SKIN CORROSION/IRRITATION | As above |
| SERIOUS EYE DAMAGE/IRRITATION | As above |
| RESPIRATORY OR SKIN SENSITISATION | As above |
| GERM CELL MUTAGENECITY | As above |
| CARCINOGENECITY | As above |
| REPRODUCTIVE TOXICITY | As above |
| STOT – Single exposure: | As above |
| STOT – Repeated exposure: | As above |
| ASPIRATION HAZARD | As above |

12. ECOLOGICAL INFORMATION

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| 12.1. TOXICITY | Not relevant |
| 12.2. PERSISTENCE AND DEGRADIBILITY | Not relevant |
| 12.3 BIOACCUMULATIVE POTENTIAL | Not relevant |
| 12.4 MOBILITY IN SOIL | Negligible |
| 12.5 RESULTS OF PBT AND vPvB ASSESSMENT | Not relevant |
| 12.6 OTHER ADVERSE EFFECTS | No specific adverse effects known. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |

13. DISPOSAL CONSIDERATION

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| WASTE DISPOSAL METHODS | Where possible, recycling is preferable to disposal. Can be disposed of in compliance with local regulations. This product can be disposed of as non toxic/inactive material in approved landfill sites. |
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| EMPTY CONTAINER WARNINGS | Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations. The re-use of packaging is not recommended. Recycling and disposal of packaging should be carried out by an authorized waste management company. |
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EU WASTE NO

14. TRANSPORT INFORMATION (See also section 9)

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| 14.1. UN NUMBER | Not relevant |
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| 14.2. UN PROPER SHIPPING NAME | Not relevant |
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14.3. TRANSPORT HAZARD CLASS

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| IATA CLASSIFICATION | Not classified |
| IMDG CLASSIFICATION | Not classified |
| ADR/RID | Not classified |

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| 14.4. PACKAGING GROUP | Not relevant |
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| 14.5. ENVIRONMENTAL HAZARDS | Not relevant |
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| 14.6. SPECIAL PRECAUTIONS FOR USERS | Not relevant |
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| 14.7. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE | Not relevant |
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15. REGULATORY INFORMATION

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| 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATION /LEGISLATION SPECIFIC FOR THE SUBSTANCE INTERNATIONAL LEGISLATION/REQUIREMENTS | no specific at the European Community level |
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| 15.2 CHEMICAL SAFETY ASSESSMENT | Exempted from REACH Registration in accordance with Annex V.7. |
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16. OTHER INFORMATION

Indication of the changes made to the previous version of the SDS:
The text was adjusted in compliance with Regulation (EU) No.1272/2008 according to the wording No.453/2010 and harmonized SDS for kaolin prepared by KPC-Europe (Association of European kaolin and clay producers). The classification of the substance was not changed.

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| REPLACES VERSION DATED | 28.02.2012 |
| ORIGINAL DOCUMENT DATED | 22.07.2012 |
| FOR REGULATORY INFORMATION; CONTACT | Dr. Denis Bézard Tel: +43 664 4544303 bezard@newchem.org |

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