



Calaumid[®] 612

1. Material- / Preparation- und Company Information

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| Trade Name | Calaumid[®] 612; Calaumid[®] 612-Fe; Calaumid[®] 612-VA; Calaumid[®] 612-AL | |
| Manufacturer's information | Licharz GmbH Industriepark Nord D-53567 Buchholz | Tel.: ++49 / (0) 26 83 / 9 77 -0 Fax.: ++49 / (0) 26 83 / 9 77 -111 Mail: info@licharz.de |

2. Composition / Information about components

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| Chemical description | Cast-Polyamide from ϵ-Caprolactam and Laurinlactam (Monomer content: <3%), additives, pigment |
| CAS - Number | not required |

3. Possible dangers

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| Possible dangers | none known |
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4. First aid measures

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| General Information | After inhalation of vapours from burning or thermal degradation of the product, get fresh air and warmth. If necessary, call a doctor. In case of loss of consciousness, keep and transport in a stable position on their side. Possible complaints: irritation of mucous membranes (nose, eyes), coughing, teary eyes In case of breathing difficulty (strong, sustained coughing): Keep the upper body in a half sitting position. Call a doctor. Burns from melted material must be clinically handled. |
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5. Fire fighting measures

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| Suitable extinguishing agents | Water spray, foam, dry extinguishing agents, carbon dioxide |
| Additional information | The product melts / ignites when in contact with flame and continues to burn outside of the ignition point. In the event of a fire, carbon dioxide, carbon monoxide and monomers could be released. The development of further fissile or oxidation by-products is dependant on the circumstances. There is a danger of an expansion of the fire due to spontaneous combustion of the vapours. Remnants of the fire and contaminated extinguishing agents should be discarded according to local rules. |
| Necessary protective gear | Use breathing protection with independent air circulation during fire fighting. |



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6. Measures in case of accidental releaseProtective measures **not necessary****7. Handling and Storage**Handling **Minimize overheating during machining processes or install suitable vacuum or aeration equipment. Minimize inhalation of vapors.**Storage **Protect from acids, alkali solutions or acid/alkali solution producing products and oxidizing agents. Follow the proper guidelines to protect from fire.**Special information **indefinite storage time****8. Exposure limits**Personal protective gear **not necessary**Workplace related limits: **ε-Caprolactam (CAS-Nr. 105-60-2)
MAK: 0,5 mg/m³ (Germany)
Xn: R20, R22
Xi: R36, R37, R38****When machining, take into account:****fine dust
MAK: 0,6 mg/m³ (Germany)****9. Physical and chemical properties****Appearance**Form **solid, as semi-finished (plate, rod, tube) or finished part**
Colour **nature (ivory), black, blue**
Smell **odourless****Changes of state**Melting point / range **210 - 220°C**
Flash point **approx. 400 °C**
Ignition point **approx. 450 °C**
Density **1,14 g/cm³**

**Calaumid[®] 612****10. Stability and Reactivity**

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| Thermal decay | begins at approx. 300°C |
| Dangerous by-products of decay | carbon monoxide, carbon dioxide, traces of hydrogen cyanide possible, monomer components |

11. Toxicological specifications

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| Toxic effects | During years of experience in the production and application of the product, no health related impairments have been observed. |
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12. Information on ecological / ecotoxic effects

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| Effects on the environment | non-toxic, biologically not degradable and non-soluble solid without known detrimental effects on the environment |
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13. Information for disposal

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| Waste code for unused material (per EU-waste catalogue) | 20 01 06 |
| Waste description | other plastic |
| Information for disposal | Sorted and clean material can be recycled or disposed of, according to local regulations, with household waste or in an incinerator. |

14. Information about transportation

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| Category of hazardous substance | not a hazardous substance according to transportation regulations |
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15. Rules

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| Identification per. GefStoffV/EG | identification not required |
| Water hazard class | per VwVwS not a water hazard (Code-Nr.: 766) |

16. Special Information

These details describe exclusively the safety requirements of the product(s) and are based on the current level of technology. They do not represent a guarantee of the described product(s) in the terms of the warranty laws. The information container herein does not absolve the user from knowing and following proper work related rules and special laws, directives and agreements. The recipient and/or user of our products takes responsibility for this.