FOAMALITE®

# Material Safety Data Sheet for FOAMALITE®



## 1. Identification of substance / preparation and of the company

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| Trade name: | **FOAMALITE premium, FOAMALITE x-press FOAMALITE color , FOAMALITE plus** |
| Use: | Semi finished sheets for visual communication and selected construction and industrial application |
| Manufacturer: | Foamalite Ltd.<br>Co. Cavan, Loch Gowna, Ireland<br>Tel +353 43 668 35 25 (only serviced during office hours)<br>Fax+353 43 668 35 23<br>E-Mail: reception@foamalite.ie |

## 2. Hazards identification

If used as intended, FOAMALITE – expanded rigid plastic sheets do not constitute any risk to public health and the environment.

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| Possible health issues: | Harmful to health when inhaling dust and vapours during unpacking, sawing, grinding and thermoforming.<br>Harmful to health when ingesting dust generated during sawing and grinding. |

## 3. Composition / Information on ingredients

Rigid plastic sheets made of expanded PVC, also containing process aids, pigments and inorganic fire retardants. Produced by expansion (foaming) using chemical blowing agents.

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| Blowing gas: | Nitrogen. |
| Further ingredients: | Residues of chemical blowing agents.<br>Organic color pigments. Stabilisers. |

## 4. First aid measures

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| Inhalation of processing fumes: | Move the person concerned to fresh air;<br>seek medical assistance if breathing difficulties occur. |
| Inhalation of smoke from fire: | Move the person concerned to fresh air and call doctor. |
| Skin contact: | Wash with fresh water. |
| Eye contact: | Wash with fresh water if irritation develops. |
| Ingestion: | No special measures required.<br>Seek medical assistance if symptoms develop. |

## 5. Fire-fighting measures

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| Suitable extinguishing media: | Water spray, foam. |
| Extinguishing media which must not be used: | Direct water jet. |
| Hazardous combustion products: | Hydrogen chloride (HCl). |

Breathing equipment with independent air supply is required for fire fighting.

## 6. Accidental release measures

No special measures required.
Remove by mechanical means.

## 7. Handling and storage

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| Handling: | Ensure good ventilation and dust extraction on processing machines and at other places where dust may develop. |
| Storage: | Stow away from immediate and dangerous sources of ignition. Danger of electrostatic charges when stored in very dry areas. |

## 8. Exposure controls / Personal protection

General protection measures: Sufficient air circulation is required during processing.

Occupational exposure limits

| | Source | Type of limit | Value (mg/m3) | Remarks |
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| Dust | SUVA | Max. expos. at workplace | 10 | inhalable particles |

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| Personal protection equipment: | Respiratory protection: | Efficient breathing mask. |
| | Skin (hand) protection: | Gloves. |
| | Eye protection: | Safety goggles. |

## 9. Physical and chemical properties

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| Physical state: | Rigid foamed plastic sheets. |
| Colour: | white, black, various colours. |
| Softening temperature: | > 80 ℃ |
| Thermal decomposition: | > 180 ℃ |
| Ignition temperature: | > 450 ℃ |
| Apparent density: | 430 – 700 kg/m$^3$ |
| Solubility: | Insoluble in: Water, sea water, acids and bases, aliphatic hydrocarbons. |
| | Soluble in: Aromatic hydrocarbons, ketones, chlorinated hydrocarbons. |

## 10. Stability and reactivity

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| General information: | Stable in normal conditions. |
| Conditions to avoid: | High temperatures (> 180 ℃) . |
| Materials to avoid: | Not applicable. |
| Hazardous thermal decomposition products: | Hydrochloric acid (HCl)<br>Carbon dioxide (CO2)<br>Carbon monoxide (CO) |

## 11. Toxicological information

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| Toxicological tests: | No data available. |
| Experiences from practical use: | |
| Skin contact: | Grinding dust may cause irritation to people with sensitive skin. |
| Eye contact: | Dust may cause irritation. |
| Inhalation: | Dust may cause irritation of respiratory tract. Dizziness, nausea and headaches may occur if processing (sawing or grinding work) is done without sufficient ventilation and respiratory protection during several hours in small, poorly ventilated areas. |
| Ingestion: | No symptoms known. |

## 12. Ecological information

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| Ecotoxicity: | The total amount of heavy metals is < 100 mg/kg [ppm]. |
| Mobility: | Insoluble in water, ground water contamination is unlikely. |
| Persistence and degradability: | Biologically not degradable. |

## 13. Disposal considerations

FOAMALITE sheets and waste thereof can be disposed of together with household waste and similar industrial refuse. Disposal by incineration must only be undertaken in facilities which are equipped with a flue gas cleansing unit.

## 14. Transport information

| | | |
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| Railroad | RID | No restriction. |
| Road | ADR | No restriction. |
| Sea | IMDG code | No restriction. |
| Air | ICAO-TI/IATA-DGR | No restriction. |
| UN classification | | Not required. |

## 15. Regulatory information

FOAMALITE sheets do not require special markings under the dangerous substances and preparation directives 67/548/EWG and 1999/45/EG

## 16. Other information

This issue of the safety data sheet replaces the issue released in 2004.

The information given in this material safety data sheet is accurate to the best of our current knowledge and experiences, but without any guarantee. The safety data sheet describes FOAMALITE sheets with regard to safety requirements. The information given does not represent a guarantee of the properties and quality of the material.

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