



Material Safety Data Sheet Multi Protect Foam

Chemical Product and Company Identification

Product name : Multi Protect Foam
General use : Insulation
Chemical family : Cellular foam
Chemical name : Phenol - Formaldehyde rigid foam resin
Chemical Formula : not applicable
CAS – number : not available

Manufacturer:
VIC International BV

Composition Information on ingredients OSHA hazardous components (29 cfr 1910 1200)

Not hazardous : 100 % completely reacted crosslinked cellular foam product

Ingredient : Iso pentane S isomere mix
CAS number : 78-78-4
EINECS number : 201-142-8
Percent % : 4-7
Exposure limits
OSHA Hazardous – flammable
TWA: 600 ppm (1770 mg/m³)
ACGIH (2002) TLV (mg/m³)
LC 50 breathing /4 hours/rat > 20 mg/l based on extrapolation from similar products and /or based on the extensive database on hydrocarbons
VOC content : not applicable



Hazards Identification

Threshold limit value (TLV) : not applicable
Emergency overview : Product is relatively benign
Ingestion : Product has a low order of acute oral toxicity

Route of exposure

Inhalation : Fine particles may produce airway irritation
Ingestion : No effect anticipated
Skin contact : Prolonged contact with particles may produce mild irritation
Eye contact : Fine particles may cause slight mechanical irritation

Effects of exposure

Inhalation : LC 50 not determined for foam dust
Ingestion : Products has a low order of acute oral toxicity
Skin contact : Harmless
Eye contact : Fine particles may cause slight mechanical irritation

Effects of overexposure

Acute : Non known
Chronic : Animal studies indicate that chronic inhalation of expanded Bakelite dust is comparable with any other type of dust.

First AID Measures

Inhalation : Contact a physician if coughing , discomfort or air passage obstruction occurs due to inhalation of foam dust
If breathing difficulties , dizziness or light headaches occur when working in dusty areas , victim should seek air free of dust , if victim experiences continued breathing difficulties , administer oxygen until medical assistance can be rendered.
If breathing stops , begin artificial respiration and seek immediate medical attention

Skin Contact : Wipe material from skin .Wash with soap and water .Clean contaminated clothing before reuse

Ingestion : Wash out mouth with water . do not induce vomiting . Seek immediate medical advice and/or attention

Eye contact : Flush eyes with water for at least 15 minutes or removes any particle .Consult a physician if irritation persists.



Fire Fighting Measures

Expanded Bakelite foam is difficult to ignite and tends to not support combustion when the flame source is removed.

Flashpoint	: Not applicable
Flammability limits	: Not applicable
Auto-ignition temperature	: Not determined
Hazardous combustion products	: Primarily carbon dioxide and carbon monoxide will be produced .Traces of other organic compounds may be produced

Special Fire-Fighting Procedures

Evacuate non-emergency personnel to a safe area .Fire-fighters should use self-contained breathing apparatus .Avoid breathing smoke , fumes and decomposition products .Use waterspray to drench smouldering foam. Extinguishing media use water ,Foam,CO2 or dry chemical.

Accidental Release Measures

Land Spill	: Material is a solid pick-up and handles as any other inert solid material
Water Spill	: Material is lighter compared to water the expanded bakelite foam floats collect floating pieces and handle as any other inert solid material

Handling and Storage

Store in a dry area , protect from abuse and follow all MSDS and label warnings
Indefinitely with respect to physical properties ; however , after some weeks slight color changes of exposed surface may be noticed, due to exposure to ultraviolet light

Cured Expanded Bakelite blocks contain less than 0.05 % free Formaldehyde or Phenol, emission testing under static and dynamic conditions at high temperature and humidity (120 F,90% R.H) produced formaldehyde emissions of less than 0.2 PPM.

Exposure Controls/Personal Protection

Engineering Controls	: None should be required in an area with free air flow Positive ventilation should be used in confined spaces if dust becomes evident
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Personal Protection

- Dust mask : Dust mask are to be used by properly trained personnel only. Wear an appropriate and properly fitted dusk mask when cutting ,grinding or milling the phenolic foam.
- Protective Clothing : Wear safety glasses ,face shields or goggles . The use of gloves (polyvinyl or latex) is recommended .For industrial clothes use clothes made of polyester fibres.

Do not wear contact lens without proper eye protection when using phenolic foam

Physical and Chemical Properties

- Appearance : Rigid Cellular foam
- Lbs/FT3_ : 2.5 to 10.0
- Color : Grey/ Orange
- Odor : none
- Freezing point : Not applicable
- Boiling point : Not applicable
- Vapor pressure : Not applicable
- Vapor density : Not applicable
- Molecular weight : Not applicable
- Water solubility : Insoluble
- Volatile by volume : Not applicable
- Evaporation rate : Not applicable
- pH : Not applicable
- Viscosity : Not applicable is solid

Stability and Reactivity

The cross-linking reaction used to manufacture Expanded Bakelite foam is irreversible

- Stability : Stable
- Polymerisation : Will not occur
- Decomposition products : Decomposition through burning may produce fumes consisting of organic particles , carbon dioxide and carbon monoxide (TLV = 50 PPM)
- Incompatible materials and conditions to avoid : none

Toxicological information

Listed by the State of New York for use



Ecological Information

No data available

Disposal Considerations

Waste disposal method : All material should be packaged , labeled transported and disposed or reclaimed in conformance with all applicable local and state regulations

Transport Information DOT

Proper shipping name : Not regulated
Hazard Class : Not a hazardous material
Identification number : Not applicable
Canadian TDG flammability classification : Not applicable

Regulatory Information

No known ingredients which occur at greater than 0.1 % are listed as a carcinogen in the IARC Monographs on the evaluation of the Carcinogenic Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA , CFR 1910.1001.1047 subpart Z toxic and Hazardous Substances (specifically Regulate Substances

TSCA : Components of products are listed on the TSCA inventory
CERCLA : Not Applicable
SARA Title III
311/312 Hazard Categories : None
313 Hazard Categories : None

Contact local authorities to determine if there may be other local requirements

Other Information

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