

Material Safety Data Sheet

TRYMER Green

Chemical Product and Company Identification

Product name : TRYMER Green
General use : Insulation
Chemical family : Cellular foam
Chemical name : Phenolic rigid foam resin
Chemical formula : not applicable
CAS – number : not available

Manufacturer:
Resolco Inc.

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

Not hazardous : 100 % completely reacted cross-linked 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 : None known
 Chronic : Animal studies indicate that chronic inhalation of expanded Phenolic 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 Phenolic 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 water spray to drench smoldering 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 Phenolic 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 Phenolic 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

Personal Protection

Dust mask : Dust mask are to be used by properly trained personnel only. Wear an appropriate and properly fitted dust 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 fibers.

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 : Green
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 Phenolic 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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