



Material Safety Data Sheet

NidaFoam PET

Revised: September 01, 2007

1. Chemical Product / Company Identification

Material Identification Polyethylene Terephthalate Foam

Trade Names NidaFoam PET-100, PET-150, PET-100 3D, PET-150 3D

Company Identification

Nida-Core Corp.
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2. Composition / Information on Ingredients

Rigid Sheet form made from extruded Polyethylene Terephthalate. Minor additives and catalysts are immobilized by the polymer and not released with normal use. Blowing agents of Carbon Dioxide (CO₂) and Nitrogen (N₂). Some varieties may have surface coverings of glass fiber woven fabric fusion bonded to one side of the sheet.

3. Hazards Identification

Emergency Overview:

Polyethylene Terephthalate is deemed non-hazardous as defined by OSHA Hazard Communication Standard (29 CFR1910.1200).

Potential Health Effects:

Heating the Polymer to the melt point may release a small amount of acetaldehyde from degradation. Burning the polymer may produce carbon monoxide and oxides of antimony. Carbon monoxide can cause carbon monoxide poisoning. Freshly produced antimony oxide can cause metal fume fever.

Carcinogenicity Information:

None of the components in the polymer at greater than 0.1% are listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

4. First Aid Measures

Inhalation: If exposure results from burning of the polymer, remove to fresh air and get medical attention.

Skin: Polyester polymer is not irritating to the skin. Molten product should be cooled with water, but not pulled off. Get medical attention.

Eyes: Flush with water if irritation develops from exposure to cutting dust.

Ingestion: No special attention required.

5. Fire-Fighting Measures

Flammable Properties:

Flashpoint: Not Applicable. Material will burn in a fire.

Lower Explosive Limit: Not Applicable.

Upper Explosive Limit: Not Applicable.

Auto-Ignition Temperature: Not Available

Hazardous Combustion Products: Carbon monoxide and oxides of antimony.

Unusual Fire and Explosion Hazards: Accumulation of dust could present a fire hazard.

Extinguishing Media: Water spray or fog, dry chemical, foam, or carbon dioxide.

Fire Fighting Procedures: Use MSHA/NIOSH approved breathing apparatus and protective gear.

6. Accidental Release Measures

Safeguards: No protective measures required unless the polymer is involved in a fire. See section 5 if this occurs.

Spill Clean Up: Vacuum or sweep material for salvage or disposal.

7. Handling and Storage

No special requirements other than to store away from sources of combustion.

8. Exposure Controls / Personal Protection

Exposure Limit Values: Not Applicable.

Exposure Controls: The use of gloves, protective goggles and dust masks and also dust extraction equipment is recommended for operations including sawing, milling, grinding and sanding.

9. Physical and Chemical Properties

Physical State: Rigid Foam Sheet

Density: 100-150 Kg/M3 (6-9 pcf)

Color: White

Odor: Odorless

Melting Temperature: 240-255C (465-495F)

Solubility: Insoluble in: Water, acids, alkalis, aliphatic hydrocarbons

Soluble in: Ketones, aromatic or chlorinated hydrocarbons

10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Temperatures above 225C (440F) will cause decomposition in the presence of oxygen.

Incompatibility with Other Materials: Can react with strong oxidizers, strong bases and strong acids.

Decomposition: Hazardous decomposition products include carbon dioxide, carbon monoxide, oxides of antimony and aldehydes.

Polymerization: Will not occur.

11. Toxicological Information

Polyester Polymer is non-toxic.

12. Ecological Information

Ecotoxicological Information: Polyester polymer is non-toxic. Polyester dust and chips, however, should be kept out of waterways as it could be ingested by wildlife.

Chemical Fate Information: Polyester polymer will not degrade biologically.

13. Disposal Considerations

Polyester polymer as supplied is not a RCRA hazardous waste. Chemical additions, processing or otherwise altering this material could, however, change this status. State and local regulations should be reviewed prior to disposal.

14. Transport Information

Department of Transportation (DOT): Not Regulated

International Civil Aviation Organization (ICAO) Classification: Not Regulated

International Maritime Dangerous Goods (IMDG) Classification: Not Regulated

TDG Class (Canada): Not Regulated

15. Regulatory Information

U.S. Federal Regulations:

OSHA hazardous chemical according to 29 CFR 1910.1200: No

Subject to reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372: No

SARA Sections 311 and 312 hazard classification: No

Toxic Substances Control Act (TSCA): All components listed on inventory.

State Regulations:

California Safe Drinking Water and Toxics Enforcement Act (Proposition 65): This product poses no significant risk to persons exposed during normal use.

16. Other Information

NFPA Ratings:

Health: 1
Flammability: 1
Reactivity: 0

NPCA-HMIS Ratings:

Health: 0
Flammability: 0
Reactivity: 0

Notice: NFPA and HMIS ratings involve data and interpretations that may vary from company to company and are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all information contained in this MSDS must be considered.

Additional Information

Label Statements:

LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING

To the best of our knowledge, the information contained herein is accurate. However, Nida-Core Corporation assumes no liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.