

SAFETY DATA SHEET

Date of Issue:

01/01/2020



AEROCEL®

Continuous Tube, Non-Continuous Tube,
Flat Sheet, Sheet Roll

1. PRODUCT AND COMPANY IDENTIFICATION

Identification of Product:	Closed Cell Elastomeric Thermal Insulation
Trade Name:	Aerocel®
Manufacturer/Supplier:	Aeroflex USA, Inc. 282 Industrial Park Road, Sweetwater, TN 37874
Telephone Number:	Toll Free 866-AEROCEL (237-6235)
Emergency Phone Number:	ChemTel, Inc. 1-800-255-3924 (North America) +1-813-248-0585 (International)

2. HAZARD IDENTIFICATION

Inhalation

No significant signs of any adverse health hazard are expected to occur as a result of inhalation exposure

Eye Contact

No significant signs of any adverse health hazards are expected to occur as a result of eye contact

Ingestion

Practically non-toxic

Skin Contact

No Significant signs of any adverse health hazards are expected to occur as a result of skin contact

3. COMPOSITION/INFORMATION ON INGREDIENTS

Health Hazardous Components

Elastomeric thermal insulation is an expanded, closed cell, cross-linked rubber compound. They contain synthetic polymers, fillers, plasticizers and rubber chemicals. Since all of these material are bound in a polymer matrix, the product does not qualify as a hazardous material as defined by OSHA (29 CFR 1910.1200).

Following are the main ingredients in this product:

Synthetic rubber (EPDM: Ethylene-Propylene-Terpolymer Rubber) CAS No. 25038-36-2

Aluminum Trihydrate CAS No. 21645-51-2

Carbon Black CAS No. 1333-86-4

4. FIRST AID MEASURES

Inhalation	Not required under normal use. If irritation persists, remove from exposure area
Eye Contact	No required under normal use. Flush with water until all traces of the material are done. Seek medical attention if irritation persists
Ingestion	If illness or adverse symptoms develop, obtain medical attention
Skin Contact	Not required under normal use

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5. FIRE-FIGHTING MEASURES

Extinguishing Media

Carbon Dioxide, ABC dry chemical, Water spray and foam

Specific Hazards with regard to Fire-Fighting measures

Approach from upwind side. Avoid breathing smoke, fumes or vapors on downwind side.

Firefighters wear protective clothing, especially eye protection, and self contained breathing apparatus

Hazardous Combustion Products

Material is stable under normal conditions. In the event of a prolonged fire, may generate Carbon Monoxide, Carbon Dioxide, Low molecular weight alcohol/aldehydes and acid.

6. ACCIDENTAL RELEASE MEASURES

If materials released/Spill

Land Spill Collect spilled material and place it in an appropriate container for reuse or disposal

Water Spill Product is insoluble. Collect spilled material and place in an appropriate container for reuse or disposal

Neutralizing Agent Negligible

7. HANDLING AND STORAGE

Handling Condition No special precaution required

Storage Condition Keep in dry normal storage

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Engineering Controls General ventilation

Personal Protection Negligible

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Expanded Foam Rubber

Specific Gravity (H₂O=1) 0.04-0.06

Service Temperature -297°F to 257°F (-182°C to +125°C)

Thermal Conductivity 0.245 BTU.in/ft².hr.°F at Mean temp 75°F

Water Absorption 0.2% by volume Max

Water Vapor Permeability 0.03 Perm-inch (4.35 x 10⁻¹¹ g/Pa.m.s)

Weather and UV resistance Minimal Cracking

Flammability Self-extinguishing

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10. STABILITY AND REACTIVITY

Stability and Reaction	Stable
Conditions to avoid	Negligible
Hazardous Decomposition Product	May generate Carbon Monoxide, Carbon Dioxide, Low molecular weight alcohol/aldehydes and acid
Hazardous Polymerization	Will not occur

11. TOXICOLOGICAL INFORMATION

No Data

12. ECOLOGICAL INFORMATION

No Data

13. DISPOSAL CONSIDERATION

Waste material may be disposed of in an approved landfill or may be incinerated under conditions which meet federal, state, and local environmental regulation.

14. TRANSPORT INFORMATION

No Data

15. REGULATORY INFORMATION

No Data

16. OTHER INFORMATION

The information supplied herein is related to material specified and may not be valid if used in combination with other material or process. Further the information contained here is believed to be reliable and based on correct state of our knowledge. However no guarantees of any kind can be give as to its accuracy.
