

AMERICAN PLASTICS

800-772-7401

Material Safety Data Sheet

COMMERCIAL PRODUCT NAME: ABS
Typical Uses: Sheet for Thermoforming

CHEMICAL CONSTITUTION OF PRODUCT: Acrylonitrile/Butadiene/Styrene resin. May contain the following: Mineral Oil, Tallow, Wax, Styrene Monomer, Acrylonitrile Monomer, Various Pigments

PHYSICAL PROPERTIES:

Boiling Point: N/A
Vapor Density: N/A
Vapor Pressure: N/A
Solubility in Water: Nil
Specific Gravity: 1.05 - 1.10
Form: Solid Pellets or Powdery Solids
Appearance: Sheets
Color: Various
Odor: No odor

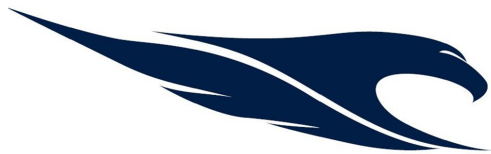
STORAGE AND HANDLING:

Precautions During Storage and Handling:

Avoid storing near foodstuffs due to the possibility of odor and taste contamination of the food. Do not store near heating devices, hot pipes, etc. With proper ventilation, these products can be stored or processed without exposing employees to unacceptable monomer levels. The gaseous emissions from forming and fabrication should not be discharged into the work areas. These materials should be exhausted, under controlled ventilation, to the outside of the building. Ventilation should be sufficient to control vapors and odors. Fumes and vapors emitted from the hot plastic during forming operations may condense on cool overhead metal surfaces or structures. That condensate, usually in the form of a soft, grease-like, semi-solid, may contain substances which can be irritating and toxic. Avoid contact of that material with the skin. Wear rubber or other impermeable protective gloves when cleaning contaminated surfaces. Typical volatile emissions from polymers under recommended process conditions, in addition to the materials previously discussed, may be water vapor and trace amounts of such materials as ethyl benzene, phenol, acrolein, acetophenone, alpha methyl styrene, 4-vinyl cyclohexene, and cumene. Wash hands with soap and water before eating or smoking and at the end of each work day.

Hazardous Combustion and Decomposition Products:

Styrene monomer, ammonia, hydrogen cyanide, acrylamide, aromatic and aliphatic hydrocarbon fractions, and carbon monoxide may be present. Primary toxic product on combustion is carbon



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ABS MSDS CONTINUED

Hazardous Combustion and Decomposition Products (Continued): monoxide. Carbon dioxide, and asphyxiant, is also produced. Hazardous polymerization will not occur. Avoid temperatures over 572°F (300°C) and oxidizing materials.

Disposal Procedures: Recycle if possible. Landfill waste plastic if codes permit, or incinerate if codes and equipment permit. Incineration equipment should be capable of handling large volumes of dense, black smoke and withstand the corrosive effects of acid gases.

Individual Preventive Measures: Vapors and fumes emitted from hot plastic during forming of these plastics may cause acute health effects in some individuals.

Eye Contact: Recommend eye protection.
Skin Contact: Heated material can cause thermal burns. Use of protective gloves/clothing is good practice.
Inhalation: No significant irritation should occur from remote or infrequent exposure. However, with repeated or prolonged exposure and under conditions of excessive fume concentration, a NIOSH/MSHA approved device with an OVAG rating or fresh air supply should be used.
Ingestion: No significant health hazards identified

IGNITION AND EXPLOSION:

Flash Point: None
Auto-Ignition Temperature: N/A
Special Fire, Explosion Hazard: Hazards from burning are intense heat and very high levels of dense, black smoke containing carbon monoxide, carbon dioxide and hydrogen cyanide.

Extinguishing Media: Water fog, foam, alcohol resistant foam, CO₂ or dry chemicals.

Special Fire Fighting Instructions: Wear positive-pressure, self-contained breathing apparatus approved by NIOSH or MSHA.

FIRST AID PROCEDURES:

Eye: Flush immediately with large amounts of water for at least 15 minutes. If irritation persists, contact physician.

Skin: Molten plastic causes severe burns. Cool rapidly with water and immediately obtain medical attention to remove the cooled plastic.

Inhalation: If affected by mists or vapors, remove to fresh air. Refer to a physician for treatment.

Ingestion: Not probable. Keep person warm and at rest. Obtain medical attention.

ENVIRONMENT PROTECTION:

To be disposed of in accordance with the appropriate legislation.

SPECIFIC DATA:

Transport: not regulated.