

MATERIAL SAFETY DATA SHEET, ABS

Section 1 Product and Company Identification

Distributor:

Antek Madison Plastics Corp

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Material Identification

Product Name: ABS

Chemical Name: Acrylonitrile-Butadiene-Styrene Copolymer

EMERGENCY PHONE NUMBER: (416) 321-1170
(613) 996-6666 (CANUTEC)

CAS Number:

Product Use: Thermoplastic, for fabrication

Section 2 Composition/Information on Ingredients

The following hazardous ingredients may be present in trace amounts within Permissible

Exposure Limits:

Styrene CAS # 100-42-5

Acrylonitrile CAS # 107-13-1

In addition, certain grades may also contain one or more of the substances listed below. In all cases, concentrations are within Permissible Exposure Limits

Titanium Dioxide CAS # 13463-67-7

Triphenyl Phosphate CAS # 115-86-6

Section 3 Hazards Identification

Ingestion: Not a probable route if ingestion.

Skin: Molten material will cause thermal burns.

Eye: Mechanical irritation only.

Inhalation: Stock shapes are not respirable, avoid breathing dust, as fine particles can be

inhaled and retained in the lungs. Although these particles contain finite amounts of volatiles, they are present in trace amounts and studies indicate there is no measurable hazard from these volatiles. Vapours and fumes from heat processing may cause irritation of the nose and throat, and in cases of overexposure can cause headaches and nausea. If affected, remove to fresh air and refer to a physician for treatment.

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Section 4 First Aid Measures

If exposed to fumes from overheating, move to fresh air. Consult a physician if symptoms persist. Wash skin with soap and plenty of water. Flush eyes with water. Consult a physician if symptoms persist. If molten ABS contacts skin, cool rapidly with cold water. Do not attempt to peel material from skin. Obtain medical attention to thermal burn.

Section 5 Fire Fighting Measures

Flash ignition temperature: 730-750 oF

Unusual fire, explosion hazards: Dust generated during grinding, handling or storage can pose an explosion hazard. When processed at temperatures below 450 oF, no significant decomposition products occur. Maintain adequate ventilation in all process areas.

Hazardous combustion products: When burned, ABS produces heat and high levels of dense, black smoke containing carbon monoxide and hydrogen cyanide.

Special fire fighting instructions: ABS has high fuel content, and fires require strenuous efforts to extinguish.

Fire fighters should wear protective clothing and a pressure-demand breathing apparatus, which should be thoroughly cleaned after use.

Extinguishing media: Water spray, CO₂ or Class A foam agent.

Section 6 Accidental Release Measures

Spill or release: Spilled pellets or scrap should be removed from floor areas immediately to provide stable footing.

Section 7 Handling and Storage

Avoid breathing dust and fumes.

Section 8 Exposure Controls/Personal Protection

Eye: Safety glasses are recommended to prevent particulate matter from entering eyes while grinding or machining.

Skin: Protective gloves are required when handling hot polymer. Also, long sleeve cotton shirt and long pants if handling molten polymer.

Ventilation: Local exhaust at processing equipment to assure that particulate levels are kept at recommended levels.

Respirator: None under normal processing, if ventilation is adequate.

Section 9 Physical and Chemical Properties

Appearance: Stock shape may be rod, sheet or tube form.

Odour: Essentially odourless.

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Section 9 Physical and Chemical Properties (continued)

Solubility in water: Insoluble

Volatile content %:

Specific gravity: >1

Section 10 Stability and Reactivity

Stability at room temperature: Stable.

Materials to avoid:

Conditions to avoid:

Section 11 Toxicological Information

Chronic toxicity: ABS product shapes are harmless.

Medical conditions prone to aggravation by exposure: No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product.

Carcinogenicity:

Section 12 Ecological Information

Aquatic toxicity: Toxicity is expected to be low based on insolubility of polymer in water.

Section 13 Disposal Considerations

Spill or release: Clean up by vacuuming or wet sweeping to minimize dust exposure.

Waste disposal: Recycling is strongly encouraged.

Section 14 Transport Information

Hazard class: NA

Shipping name: NA

Section 15 Regulatory Information

This product contains no known toxic chemicals.

Section 16 Other Information

The information set forth herein has been gathered from standard reference materials and/or supplier test data and is to the best knowledge and belief of Antek Madison Plastics Corp, accurate and reliable. Such information is offered solely for your consideration, investigation and verification, and it is not suggested or guaranteed that the hazard precautions or procedures mentioned are the only ones which exist. Antek Madison Plastics Corp makes no warranties, expressed or implied, with respect to the use of such information or the use of the specific material identified herein in combination with any other material or process, and assumes no responsibility.