



MATERIAL SAFETY DATA SHEETS

SECTION I SUPPLIER

NAME: GBT, Inc. EMERGENCY PHONE: (800) 588-0608

TRADE NAME: GEOCLIP®

CHEMICAL NAME: Acrylonitrile-butadiene-styrene

HAZARD SUMMARY:
Physical Hazards None
Health Hazards None

SECTION II HAZARDOUS INGREDIENTS

SUBSTANCE NAME: Styrene %: Not Available

HAZARDOUS PROPERTY: Not Available TLV: Not Available

These materials are high-molecular-weight polymers not expected to be chemically active under recommended conditions of use. Trace amounts of residual monomers, including acrylonitrile and styrene, suspected carcinogens, are present and may be released under suggested processing temperature range. For Hazard Communications purposes under OSHA Standard 29 CFR 1910.1200, styrene monomer is listed as a possible carcinogen under the Hazard Communication Standard. Acrylonitrile is not listed under hazardous ingredients because it is present at levels of less than 0.1% which is the reporting guideline for carcinogens under the Hazard Communication Standard.

SECTION III PHYSICAL DATA

BOILING POINT (°C): N/A

SPECIFIC GRAVITY: 1.02-1.17

MELTING POINT (°C): 103-128

SOLUBILITY IN WATER: Insoluble

VAPOR PRESSURE
(mmHg): N/A

VOLATILE MATERIAL
(VOL %): N/A



VAPOR DENSITY: N/A

EVAPORATION RATE
(Water= 1): N/A

APPEARANCE & ODOR: Solid pellets with faint or no odor

SECTION IV: FIRE AND EXPLOSION DATA

FLASH POINT (°C): 349

LIMITS: LEL-Unknown
UEL-Unknown

AUTO IGNITION TEMP: 505

EXTINGUISHING MEDIA: Dry, chemical, water spray, carbon dioxide, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Pressure demand self contained breathing apparatus in any closed space. Dense smoke emitted when burned without sufficient oxygen.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Fumes and vapors emitted from the hot plastic during converting 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 that can be irritating and toxic. Wear rubber or other impermeable gloves when cleaning contaminated surfaces. Typical volatile emissions from polymers under recommended process conditions, in addition to the materials previously discussed, may include 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.

SECTION V: HEALTH HAZARD

THRESHOLD LIMIT Not EFFECTS OF OVER- Acutely take care of

VALUE: Determined EXPOSURE: mechanical injury

EMERGENCY & FIRST AID PROCEDURES

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

EYES: Flush eyes with plenty of water. Seek medical attention if irritation persists.

SKIN: Wash off in flowing water. Molten plastic causes severe burns. Cool rapidly with water and immediately seek medical attention to remove the cooled plastic.

INGESTION: Not probable. Keep person warm and at rest. Seek medical attention.



SECTION VI: REACTIVITY DATA

PRODUCTS STABILITY: Stable x

CONDITIONS TO AVOID: Do not exceed 288° C. Purgings should be collected only as small, flat thin shapes or in thin strands to allow for rapid cooling. Precautions should be taken against autoignition of hot, thick masses of the plastic. Quench in water. Grinder dust is an explosion hazard.

HAZARDOUS DECOMPOSITION PRODUCTS: Styrene monomer, ammonia, hydrogen cyanide, acrylamide, aromatic and aliphatic hydrocarbon fractions, and carbon monoxide may be present. Carbon dioxide, an asphyxiant, is also produced.

SECTION VII: SPILLS & WASTE DISPOSAL

IN CASE OF SPILL : Non-hazardous solid in pellet form which can be easily controlled in case of a spill. Remove from all floor areas to allow for stable footing and prevent slips by personnel. For water release, notification of government agency may be appropriate.

WASTE DISPOSAL METHOD: Disposal must be in accordance with applicable Federal, State or Local regulations. Incineration equipment should be capable of handling large volumes of dense, black smoke and withstand the corrosive effects of acid gases. These pellet materials are not considered hazardous waste under Title 40, CFR Part 261 (Hazardous Wastes Under the Conservation Recovery Act), Reference Sections 261.31, .32, .33(E) and .33(F). They do not have the characteristics of a hazardous material as defined under Sections 261.21, .22, .23, and .24.

SECTION VIII: SPECIAL PROTECTION

VENTILATION: Provide sufficient ventilation to control vapors and odors.

PROTECTIVE EQUIPMENT: Respiratory, eye, etc. not normally necessary at the handling of pellet form, but when emitting excessive fume using this material; a NIOSH approved respiratory mask should be worn.

SECTION IX: OTHER INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Practice reasonable care and caution in handling.