SAFETY DATA SHEET



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SECTION 1: IDENTIFICATION

Product Identifier: Polybutylene terephthalate glass filled

Chemical Formula: Polybutylene terephthalate

General Product Use: May be used to produce molded or extruded articles or as a

component of other industrial products.

Manufacturer: Star Plastics, Inc.

326 Jack Burlingame Drive

Millwood, West Virginia 25262, USA

StarPlastics.com

Phone: 304.273.0352 (24 Hours)

Fax: 304.273.0355

Emergency telephone number: 304.273.5326 (24 hours)

SECTION 2: HAZARD(S) IDENTIFICATION

Classifications: Use Appendices to 1910.1200 to determine Hazard

Classification.

Pictograms:

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Signal Word: Warning

Hazard Statements: Spilled pellets create slipping hazard.

Precautionary Statements: Fumes produced during melt processing may cause

eye, skin, and respiratory tract irritation.

Other Hazards not Otherwise Classified: Pellet inhalation unlikely due to physical form.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical/Component Name CAS Number Weight %

Polybutyleneterephthalate 30965-26-5 Aluminum Borosilicate 65997-17-3

for codes containing high black content

Carbon Black 1333-86-4

for codes containing high white content \dots

Titanium Dioxide 13463-67-7

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SECTION 4: FIRST-AID MEASURES

Inhalation: Fume inhalation: Leave contaminated area and breathe fresh air. If

> coughing, difficult breathing or any other symptoms develop seek medical attention at once, even if symptoms develop at a later time.

Flush immediately with large amounts of water for at least 15 minutes. Eye Contact:

If irritation persists, call medical support.

Skin Contact: For skin contact with fume condensate, immediately wash thoroughly

with soap and water. If irritation develops seek medical attention.

For molten plastic skin contact, cool rapidly with water and

immediately seek medical attention. Do not attempt removal of plastic

without medical assistance. Do not use solvent for removal.

Not probable. Ingestion:

Most important Fumes produced during melt process of plastics may produce acute symptoms/effects: health effects in some individuals, especially irritation of eyes/nose

and throat in cases of severe overexposure, nausea and headaches.

Indication of immediate

Molten plastic can cause severe thermal burns. Fumes produced medical treatment: during melt processing may cause eye, skin and respiratory tract

irritation.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable (and unsuitable) **Extinguishing Media:**

Water spray and foam. Water is the best extinguishing medium.

Carbon dioxide and dry chemical are not generally

recommended because their lack of cooling capacity may

permit re-ignition.

Specific Hazards arising from

the chemical:

Hazardous combustion products may include intense heat,

dense black smoke, carbon monoxide, carbon dioxide and

hydrocarbon fragments.

Special protective equipment and precautions for firefighters:

Wear NIOSH/MSHA approved SCBA and full protective

equipment.

The fuel content and temperatures will require immediate attention and vigorous efforts to bring about control of the fire, and suppression of the fire should begin immediately. The plastic will melt, but it will not be carried on the surface of the water, and water can be freely used to control the fire. Use a water spray to cool fire-exposed containers, and to solidify. Do not release runoff from fire control methods to sewers or waterways.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal

Precautions/protective equipment/emergency procedures:

Methods/materials for containment & clean-up:

Pellets: Remove from all floor areas to allow for stable footing

and preventing slips by personnel.

Soil: Collect for re-use or appropriate disposal. Solids can be

separated.

Water: Notification of government agency may be appropriate.

Air: Not likely to be released.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Secondary operations such as grinding, sanding or sawing may produce

Handling: a dust explosion hazard. Use aggressive housekeeping activities to prevent dust accumulation; employ bonding, grounding, venting and

explosion relief provisions in accordance with accepted engineering

Avoid storing containers near foodstuffs due to possibility of odor and

practices.

Conditions for Safe

Storage: taste contamination of food.

Do not store containers near heating devices, hot pipes, etc.

Store in a dry place away from moisture, excessive heat and sources of

ignition.

Read and become familiar with all labels and instructions of packaging.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

OSHA PEL/ACGIH/TLV:

OSHA PEL (TWA) STEL Ceiling

for codes containing high black

content

Carbon Black 3.5 mg/m³

for codes containing high white

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Titanium Dioxide 15 mg/m³

Appropriate Engineering Recommended, sufficient ventilation to control fumes.

Controls:

Individual Protection

Measures:

Under conditions of excessive fume concentration, a **Respiratory Protection:**

> NIOSH/MSHA approved device with organic vapor acid gas rating or fresh air supply should be used. Seek professional advice prior

to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a

MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of

sufficient oxygen. For emergency or nonroutine operations

(cleaning spills, reactor vessels, or storage tanks), wear an SCBA. Warning! Air-purifying respirators do not protect workers in

oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at

least: medical certification, training, fit-testing, periodic

environmental monitoring, maintenance, inspection, cleaning, and

convenient, sanitary storage areas.

Hand Protection: Wear gloves that will prohibit penetration when handling hot plastic.

Eye Protection: ANSI approved safety glasses or chemical workers goggles.

Ordinary work clothes. Other Protective

Equipment:

Work Hygienic Practices: Wash hands with soap and water before eating or smoking and at

the end of each work day.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical Solid, plastic pellet **Explosive Limits:** N/A

state, color, etc.):

Odor: Faint Vapor Pressure: Negligible

Solubility:

Insoluble

Odor Threshold: N/A Vapor Density: Unknown pH: N/A **Relative Density:** Unknown

Freezing/Melting point: This product does not exhibit

> a sharp melting point, but softens gradually over a wide

temperature range.

N/A **Boiling Point/Range:** Other Solubility: Unknown

Flash Point: Unknown Partition Coefficient: Unknown PBT GF20 MSDS NO. GF PBT 988001G

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Evaporation Rate: N/A Auto-Ignition Temp: Unknown Unknown Flammability (solid, N/A **Decomposition Temp:**

gas):

Viscosity: N/A **UEL/LEL:** Unknown

SECTION 10: STABILITY AND REACTIVITY

Not reactive under recommended conditions of handling, storage, Reactivity:

processing and use.

Chemical Stability: Stable under recommended conditions of storage and handling.

Possibility of Hazardous

Reactions:

Conditions to Avoid: Do not exceed melt temperature recommendations in product literature.

> In order to avoid autoignition/hazardous decomposition of hot thick masses of plastic, purgings should be collected in small, flat shapes or

thin strands to allow for rapid cooling and guench in water.

Incompatible Materials:

Hazardous

Processing fumes evolved at recommended processing conditions **Decomposition of** contain trace levels of tetrahydrofuran (THF) and may contain trace

Products: levels of phenol, alkylphenols, diarylcarbonates, and acrylates.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Routes of Exposure: Inhalation, skin, ingestion

Product may cause irritation or injury due to mechanical action. Eye:

Pellets not likely to cause skin irritation. Skin Contact:

Molten plastic can cause severe thermal burns.

Not acutely toxic. Ingestion:

Inhalation: Pellet inhalation unlikely due to physical form.

Fumes produced during melt processing may cause eye, skin and Symptoms:

respiratory tract irritation.

Delayed & Immediate Acute Effects: Fumes produced during melt process of plastics may

> Effects: produce acute health effects in some individuals, especially irritation

of eyes/nose and throat in cases of severe overexposure, nausea and headaches. Fumes emitted from hot plastic during conversion may

condense on cool overhead metal surfaces/structures.

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Chronic Effects: No known

Numerical Measures of

Toxicity:

Carcinogenicity: OSHA, IARC and NTP have listed carbon black as carcinogen.

> Titanium Dioxide has been identified as a suspected or confirmed human carcinogen. OSHA, IARC and/or NTP have listed heavy metals, present in some colorants as carcinogens. These colorants are essentially bound to the plastic matrix and are unlikely to

contribute to workplace exposure under recommended processing

conditions.

SECTION 12: ECOLOGICAL INFORMATION (NON-MANDATORY)

Ecotoxicity: N/A

Persistence and degradability: N/A

Bioaccumulation potential: N/A

> Mobility in soil: N/A

Other adverse effects: N/A

SECTION 13: DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

Landfill waste plastic if codes permit/incinerate if codes and equipment permit. Incinerating equipment should be capable of handling large volumes of dense, black smoke and withstand effects of acid gases. Pellet materials not considered hazardous waste.

SECTION 14: TRANSPORT INFORMATION (NON-MANDATORY)

UN Number N/A

UN Proper Shipping Name N/A

Transport Hazard Class(es) N/A

Packing Group, if applicable N/A

Environmental hazards (eg, Marine pollutant) N/A

Transport in Bulk (according to Annex II of MARPOL N/A

73/78 and the IBC Code)

Special Precautions which a user needs to be aware of, N/A Access Date: 5/7/2020

or needs to comply with, in connection with transport of conveyance either within or outside their premises.

DOT Transportation Data: 49 CFR 172.101

SECTION 15: REGULATORY INFORMATION (NON-MANDATORY)

Safety, Health and Environmental Regulations specific for the product in question.

EPA Regulations:

RCRA Hazardous Waste Number: Not listed (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.??): Not classified

CERCLA Hazardous Substance (40 CFR 302.4) Unlisted specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4);

CWA, Sec. 307(a), CAA, Sec. 112

SARA Toxic Chemical (40 CFR 372.65): Not listed

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ)

OSHA Regulations:

Air Contaminant (29 CFR 1910.1000, Table Z-1, Z-1-A): Not listed

OSHA Specifically Regulated Substance: Not listed.

State Regulations:

California Proposition 65:



WARNING: This product can expose you to chemicals: Antimony Oxide (CAS# 1309-64-4) which is [are] known to the State of California to cause cancer, birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

TSCA: Listed

SECTION 16: OTHER INFORMATION

Prepared By: Star Plastics, Inc **Date of Preparation**: 11/19/2013

Revision: 01

This information is offered in good faith as typical values and not as a product specification. No warranty, expressed or implied is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.