# MATERIAL SAFETY DATA SHEET

### TP-BL3136

USA

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# 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

#### MANUFACTURER / SUPPLIER

Polymerland, Inc. 501 Avery Street Parkersburg, WV 26102

FAX OOL

366-9506 508

(800) 447-4545 (24 hour) (800) 424-9300 (24 hour) EMERGENCY TELEPHONE Medice] CHEMTREC

(800) 447-4545 (24 hour) (800) 424-9300 (24 hour)

NON-EMERGENCY TELEPHONE

(800) 752-7842 PRODUCT IDENTIFIER: PRODUCT DESCRIPTION:

(304) 424-5411

POLYMERLAND RESIN FAX 364 424 5537
Acrylonitrile-butadiene-styrene terpolymer

(ABS) (CAS# 9003-56-9).

May be used to produce molded or extruded

PRODUCT USE: erticles or as a component of other industrial products

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

This product consists primarily of high molecular weight polymers. Substances listed below are reportable hazardous ingredients as defined by The OSHA are also Hazard Communication Standard. Exposure limits, when available listed. Styrene, if present, is listed below based upon its IARC classification es e possible carcinogen.

Additional compositional data are also provided in Section 15, REGULATORY

INFORMATION, subject to supplier notification requirements.

UNITS **OSHA ETINU** ACGIH CAS NUMBER CHEMICAL NAME 13463-67-7 Titmnium dioxide (Ti 02) mg/m3 TLV 10.0 10.0 mg/m3 PEL

1333-86-4 carbon black

mg/m3 TLV 3.5 3.5 mg/m3 PEL

100-42-5 styrene ppm PEL 50.0 ppm TLV 50.0 100.0 ppm STEL 100.0 ppm STEL

BY:

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### 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Solid pellets with slight or no odor. Spilled pellets create slipping hazard. Can burn in a fire creating dense toxic smoke. Moltan plastic can cause severe thermal burns. Fumes produced during melt processing may cause eye, skin and respiratory tract irritation. Secondary operations, such as grinding, sanding or sawing, can produce dust which may present an explosion or respiratory hazard.

POTENTIAL HEALTH EFFECTS

EYE: SKIN: Product may cause irritation or injury due to mechanical action. Pellets not likely to cause skin irritation.

INGESTION: Not acutaly toxic. INHALATION:

Pellet inhalation unlikely due to physical

form.

CHRONIC/CARCINGGENICITY

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NTP: Not Tested Not Regulated OSHA: Listed IARC:

MELT PROCESSING HEALTH EFFECTS: Molten plastic can cause severe burns.

Processing fumes may cause irritation to the eyes, skin and respiratory tract, and in cases of severe over-exposure, nausea and headache.

Greese-like processing fume condensates on ventilation duct work, molds and surfaces can cause irritation and injury to skin.

AL RESTRICTIONS:

There are no known human health effects yeted by exposure to this product. However, certain sensitive MEDICAL RESTRICTIONS: aggravated by exposure to this product. individuals and individuals with respiratory impairments may be affected by exposure to components in the processing fumes. NOTE: OSHA, IARC and/or NTP have listed carbon black

and heavy metals, present in some colorants, as carcinogens. If thes colorants are present in this product, they are shown in SECTION 2. These colorants are essentially bound to the plastic matrix and are unlikely to contribute to workplace exposure under recommended processing conditions.

#### 4. FIRST AID MEASURES

Immediately Remove contact lenses at once. EYES: flush eyes well with copious quantities of water or normal saline for at least 20-30 minutes. If irritation persists, seek medical attention.

Wash skin thoroughly with scap and water. SKIN:

Seek medical attention if rash or burn occurs. INGESTION:

Not probable. If a large amount is swallowed,

seek medical attention

Not likely to be inhaled due to physical INHALATION:

form.

**MELT PROCESSING:** For molten plastic skin contact, cool rapidly Do not attempt removal of with water and immediately seek medical attention. plastic without medical assistance. Do not use solvent for removal.

For processing fume inhalation irritation, leave contaminated area and breathe fresh air. If coughing, difficult breathing or any other symptoms breathe fresh air. develop seek medical attention at once, even if symptoms develop at a later time.

For skin contact with fume condensate, immediately wash thoroughly with soap If irritation develops seek medical attention. and water.

## 5. FIRE FIGHTING MEASURES

Approved pressure demand breathing apparatus FIRE FIGHTING: and protective clothing should be used for all fires. Water spray is to preferred extinguishing medium. This product will melt but will not be Water spray is the preferred extinguishing medium. carried on the surface of water.

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. HAZARDOUS COMBUSTION PRODUCTS: Hazardous combustion products may include intense heat, dense black smoke, carbon monoxide, hydrogen cyanide, hydrocarbon fragments and carbon dioxide.

Hot Applicable FLASH POINT: LOWER FLAMMABLE LIMIT: UPPER FLAMMABLE LIMIT: Not Established Not Established

508C (946F), estimated AUTOIGNITION: Requires a continuous flame source to ignite.

CONDITIONS OF FLANNABILITY:

EXPLOSION DATA IMPACT SENSITIVITY: Not sensitive to mechanical impact.

Not sensitive to static discharge. (See HANDLING AND STORAGE) STATIC DISCHARGE:

# 6. ACCIDENTAL RELEASE MEASURES

GENERAL: Sweep or gather up material and place in (See DISPOSAL INFORMATION) proper container for disposal or recovery.

### 7. HANDLING AND STORAGE

A7-26 Follow recommendations on label and in **HANDLING:** 

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processing conditions may include trace levels of styrene, acrylonitrile, adrolein, acetaldehyde, acatophenone, ethylbenzene, cumene, 4-vinylcyclohexene and phenols.

# 11. TOXICOLOGICAL INFORMATION

PRODUCT:

ACUTE ORAL: COMPONENTS:

Oral LD50 (Rat) >5 g/kg, estimated.

Styrene monomer is listed as a possible carcinogen by IARC. Rats exposed to acrylonitrile by inhalation or ingestion induced brain, zymball gland (no comparable human gland) and stomach tumors.

#### 12. ECOLOGICAL INFORMATION

GENERAL:

TDGA:

Not expected to present any significant ecological problems.

# 13. DISPOSAL INFORMATION

RCRA HAZARDOUS WASTE: WASTE DISPOSAL:

Product is not a RCRA hezardous waste. Recycling is encouraged. Landfill or ate in accordance with federal, state and local requirements. Collected processing fume condensates should be tested to determine waste classification.

14. TRANSPORTATION INFORMATION

DOT HAZARD CLASS: PROPER SHIPPING NAME: IDENTIFICATION NUMBER: Not Regulated Not Regulated Not Listed Not Listed

# 15. REGULATORY INFORMATION

Listed below are chemical substances subject to supplier notification requirements. The percentages, when present, represent average values.

CAS	NUMBER	EPCRA	WHHIS	NPRI	CA-65	FL RI
	CHEMICAL NAME	313,2	%	2	7.	
CR(3	5)	-	-	_		X
	chromium (III) com	mpound(s)				
1	00-40-3				< 0.1	
· <u> </u>	4-ethenylcyclohexe	ne				
1	00-42-5	0.5				
	styrene					
1	07-13-1				< 0.1	X
	acrylonitrile					
134	43-47-7				•	v

13463-6/-/ Titanium dioxide (Ti U2)

CA-65: Chemical substances identified under the California Proposition 65 column are known to the State of California to cause cancer and/or reproductive toxicity.

TSCA STATUS: This product complies with the Chemical Substance Inventory requirements of the US EPA Toxic Substances Control Act (TSCA)

WHMIS CLASSIFICATION: Not a controlled product

# 16. OTHER

# PREPARED BY:

#### Product Compliance

The above information and recommendations are believed accurate and reliable. Because it is not possible to enticipate all conditions of use additional safety precautions may be required. POLYMERLAND INC. makes no warranty, either express or implied, including merchantability and fitness. USER RESPONSIBILITY: Each user should read and understand this information and incorporate it into individual site safety programs in accordance with applicable hazard communication standards and regulations.

### ABBREVIATIONS:

ACGIH: American Conference of Governmental Industrial Hygienists CA-65: California Proposition 65 (Safe Drinking Water & Toxic Enforcement Act)

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processing guide. Prevent contact with skin and eyes. Use good industrial hygiene practices. Provide adequate ventilation. Secondary operations such as grinding, sanding or sawing may produce 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 practices. STORAGE: Store in a dry place away from moisture,

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: A continuous supply of fresh air to the workplace together with removal of processing fumes through exhaust systems is recommended. Processing fume condensate may be a fire hazard and toxic; remove periodically from exhaust hoods, duct work and other surfaces using appropriate personal protection. For powders and residual dusts refer HANDLING AND STORAGE section.

excessive heat and sources of ignition.

Ventilation requirements must be locally determined to limit exposure to processing fumes in the workplace. Design techniques and guidelines may be found in publications such as:

Industrial Ventilation; available from the American Conference of Governmental Industrial Hygienists, Committee on Industrial Ventilation, P.O. Box 16153, Lansing, MI 48901. PERSONAL PROTECTION

EYE/FACE: Wear safety glasses with side shields or chemical goggles. In addition, use full face shield when cleaning processing fume condensates from hoods, ducts and other surfaces. When handling pellets avoid prolonged or SKIN: repeated contact with skin. When melt processing product wear long pants, long sleeves, well insulated gloves and face shield when applicable. Use appropriate protective clothing, including chemical resistant gloves, to prevent any contact with processing fume condensates.

RESPIRATORY: When processing fumes a When processing fumes are not adequately controlled, use respirator approved for protection from organic vapors and acid gases. When dust or powder from secondary operations, such as grinding sanding or sawing, are not adequately controlled use respirator approved for protection from dust.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: ODOR AND APPEARANCE: BOILING POINT:

**MELTING POINT:** VAPOR PRESSURE (mmHg): VAPOR DENSITY (mir=1): SPECIFIC GRAVITY (water=1):

WATER SOLUBILITY: え VOLATILES: pH:

ODOR THRESHOLD: **EVAPORATION RATE:** COEFFICIENT WATER/OIL DISTR:

CONDITIONS TO AVOID:

COMMENT:

Solid

Plastic pellet with slight odor.

Not Applicable See COMMENT below.

Negligible Not Applicable

Insoluble **Hegligible** Not Applicable Not Established Negligible Not Established

This product does not exhibit a sharp melting

point, but softens gradually over a wide temperature range.

### 10. STABILITY AND REACTIVITY

STABILITY:

Stable under recommended conditions of

storage and handling.

REACTIVITY:

Not reactive under recommended conditions of

handling, storage, processing and use. 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 quench in water. Bo not allow product to remain in barrel at elevated ter. Do not allow product to remain in barrel at elevated extended periods of time; purge with a general purpose temperatures for (See EXPOSURE CONTROLS/PERSONAL PROTECTION section for respiratory resin. protection advice.)

HAZARDOUS DECOMPOSITION: A7-27 Processing fumes evolved at recommended

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CAS 8: Chemical Abstracts Service number.

EPCRA 313: Emergency Planning and Community Right-To-Know Act, Section 313.

FL: Florida Right-To-Know Law, Substance List.

OSHA: The Occupational Safety and Health Administration.

NPRI: The Canadian National Pollutant Release Inventory.

RCRA: Resource Conservation and Recovery Act.

RI: Rhode Island Right-To-Know Law, Hazardous Substance List.

WHMIS: Canadian Workplace Hazardous Materials Information System

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REVISIONS IN THIS HSDS SINCE YOUR LAST ORDER ARE IN THE FOLLOWING SECTION(S):