

Material Safety Data Sheet

Material Name: Elasthane™ 55D MR TPU

MSDS ID: FP70018

*** Section 1 - PRODUCT AND COMPANY IDENTIFICATION ***

Material Name: Elasthane™ 55D MR TPU

Manufacturer Information

DSM PTG

2810 7th Street

Berkeley, CA 94710

Mfg Contact: Customer Service

Phone: 510 841 8800

Emergency # (800) 424-9300 (24hr CHEMTREC)

Email: CustomerSupport@polymertech.com

*** Section 2 - HAZARDS IDENTIFICATION ***

POTENTIAL HEALTH EFFECTS

EMERGENCY OVERVIEW

Color: light amber

Physical Form: solid

Odor: faint

Inhalation

Short Term: Melt processing fumes or vapors may cause respiratory irritation.

Long Term: Prolonged exposure to melt processing fumes or vapors may produce bronchospasm in individuals with bronchial asthma or other types of chronic obstructive respiratory disease.

Skin

Short Term: Contact with molten material may cause thermal burns

Long Term: no information on significant adverse effects

Eye

Short Term: Contact with molten material may cause thermal burns

Long Term: no information on significant adverse effects

Ingestion

Short Term: Large quantities may cause vomiting.

Long Term: no information on significant adverse effects

HMIS Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Regulatory Status

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

*** Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS ***

CAS	Component	Percent
Not Available	Thermoplastic polyetherurethane polymer	60-100

*** Section 4 - FIRST AID MEASURES ***

Inhalation

If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. Get immediate medical attention.

Skin

Wash skin with soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention, if needed. Thoroughly clean and dry contaminated clothing and shoes before reuse. For thermal burns, cool affected areas as quickly as possible by drenching or immersing in water until material solidifies.

Eyes

Flush eyes with plenty of water for at least 15 minutes. Then get immediate medical attention.

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Ingestion

If a large amount is swallowed, get medical attention.

*** Section 5 - FIRE FIGHTING MEASURES ***

See Section 9 for Flammability Properties

NFPA Ratings: Health: 1 Fire: 1 Reactivity: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Flammable Properties

Molten product may be combustible. Avoid contact with molten material.

Extinguishing Media

regular dry chemical, carbon dioxide, water, regular foam

Fire Fighting Measures

Move container from fire area if it can be done without risk. Use extinguishing agents appropriate for surrounding fire. Stay upwind and keep out of low areas.

Thermal Decomposition Products

Combustion: oxides of carbon, hydrogen cyanide

*** Section 6 - ACCIDENTAL RELEASE MEASURES ***

Occupational spill/release

Wet material is slippery under foot. Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

*** Section 7 - HANDLING AND STORAGE ***

Handling Procedures

Avoid breathing vapor or mist. Use only with adequate ventilation. Wash thoroughly after handling.

Storage Procedures

Store and handle in accordance with all current regulations and standards. Store in a tightly closed container. Store in a cool, dry, well ventilated area of non-combustible construction.

*** Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION ***

Component Exposure Limits

ACGIH, OSHA, NIOSH and the provinces of Canada have not developed exposure limits for any of this product's components. Consult local authorities for acceptable exposure limits.

Ventilation

Ventilation equipment should be explosion-resistant if explosive concentrations of material are present. Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Engineering Controls

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of these product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment.

PERSONAL PROTECTIVE EQUIPMENT

Eyes/Face

Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

Protective Clothing

Wear appropriate chemical resistant clothing.

Glove Recommendations

Wear appropriate chemical resistant gloves. When material is at an elevated temperature, wear appropriate heat resistant gloves.

Respiratory Protection

Under conditions of frequent use or heavy exposure, respiratory protection may be needed.

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*** Section 9 - PHYSICAL AND CHEMICAL PROPERTIES ***

Physical State: Solid	Appearance: granules pellets
Color: light amber	Physical Form: solid
Odor: faint	Odor Threshold: Not available
Melting Point: -180 °C	Boiling Point: Not applicable
Vapor Pressure: Not applicable	Vapor Density (air = 1): Not applicable
Density: Not available	Specific Gravity (water = 1): 1.05-1.2
Water Solubility: Insoluble	Coeff. Water/Oil Dist: Not available
Volatility: none	Evaporation Rate: Not available

*** Section 10 - STABILITY AND REACTIVITY ***

Chemical Stability

Stable at normal temperatures and pressure.

Conditions to Avoid

Avoid contact with molten material. Avoid heat, flames, sparks and other sources of ignition.

Materials to Avoid

No data available.

Decomposition Products

Irritating and toxic fumes and gases may be released upon thermal processing or during combustion

Combustion: oxides of carbon, hydrogen cyanide

Possibility of Hazardous Reactions

Will not polymerize.

*** Section 11 - TOXICOLOGICAL INFORMATION ***

Acute and Chronic Toxicity

The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions. Melt processing fumes or vapors may cause respiratory irritation. Contact with molten material may cause thermal burns

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and no selected endpoints have been identified.

RTECS Acute Toxicity (selected)

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Component Carcinogenicity

None of this product's components are listed by ACGIH, IARC, NTP, DFG or OSHA.

RTECS Irritation

The components of this material have been reviewed and RTECS publishes no data as of the date on this document.

Medical Conditions Aggravated by Exposure

asthma, respiratory disorders

*** Section 12 - ECOLOGICAL INFORMATION ***

Ecotoxicity

No data available.

Component Analysis - Aquatic Toxicity

No LOLI ecotoxicity data are available for this product's components.

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*** Section 13 - DISPOSAL CONSIDERATIONS ***

Disposal Methods

Dispose in accordance with all applicable regulations.

Component Waste Numbers

The U.S. EPA has not published waste numbers for this product's components.

*** Section 14 - TRANSPORT INFORMATION ***

US DOT Information

Not regulated.

TDG Information

Not regulated.

ADR Information

Not regulated.

RID Information

Not regulated.

IATA Information

Not regulated.

ICAO Information

Not regulated.

IMDG Information

Not regulated.

*** Section 15 - REGULATORY INFORMATION ***

US Federal

No information is available.

U.S. Federal Regulations

None of this products components are listed under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 311/312 (40 CFR 370.21), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), or require an OSHA process safety plan.

SARA 311/312

Acute Health: No **Chronic Health:** No **Fire:** No **Pressure:** No **Reactive:** No

U.S. State Regulations

None of this product's components are listed on the state lists from CA, MA, MN, NJ, PA, or RI.

Not regulated under California Proposition 65

Component Analysis - Inventory

No information is available.

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*** Section 16 - OTHER INFORMATION ***

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; RID - European Rail Transport; RTECS - Registry of Toxic Effects of Chemical Substances®; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States

Other Information

SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE, except that the product shall conform to contracted specifications, and that the product does not infringe any valid United States or Canadian patent. No claim of any kind shall be greater in amount than the purchase price of the quantity of product in respect of which damages are claimed. In no event shall Seller be liable for incidental or consequential damages, whether Buyer's claim is based on contract, breach of warranty, negligence or otherwise.

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