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The Ultimate Retainer Material (\*Patent Pending)

## MATERIAL DATA SHEET TAGLUS TUFF



### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY / UNDERTAKING

|                      |   |
|----------------------|---|
| Trade Name:          | TAGLUS TUFF   |
| Other Name(s):       | PETG Copolyester Sheet                                |
| Usage:               | Plastic sheet products                                |
| Supplier:            | Vedia Solutions<br>www. taglus.com<br>info@taglus.com |
| Emergency Telephone: | +91 8657978174  |

### 2. HAZARDS IDENTIFICATION

This material is classified as not hazardous under OSHA regulations. Under normal conditions of use, this product is not expected to create any unusual industrial hazards. Irritating gases/fumes may be given off during burning or thermal decomposition. Contact with hot material will cause thermal burns.

### 3. COMPOSITION/INFORMATION ON INGREDIENT'

|                            |                                     |
|----------------------------|-------------------------------------|
| Chemical Characterization: | 100% PETG Copolyester [Proprietary] |
|----------------------------|-------------------------------------|

## 4. FIRST AID MEASURE

|               |   |
|---------------|---|
| Inhalation:   | Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.                                     |
| Skin Contact: | Cool melted product on the skin with plenty of water. Do not remove solidified product. Get medical attention if a thermal burn occurs. |
| Eye Contact:  | In case of contact, flush eyes with Plenty of Lukewarm water.   |
| Ingestion:    | Get medical attention.  |

## 5. FIRE-FIGHTING MEASURE

|  |  |
|--|--|
| Suitable Extinguishing Media:                                | Dry water fog, dry chemical, carbon dioxide Co2  |
| Specific Fire Hazards:                                       | Toxic and irritating gases/fumes may be given off during burning or thermal decomposition. |
| Special Protective Equipment & Precaution for Fire Fighters: | Wear a self-contained breathing apparatus and chemical protective clothing.                |

## 6. ACCIDENTAL RELEASE MEASURE

|                           |  |
|---------------------------|--|
| Personal Precaution:      | If molten, allow the material to cool and place it into an appropriate marked container for disposal. Do not breathe vapors or dust. |
| Environmental Precaution: | Do not release into the environment, such as into drains.  |
| Methods for Cleaning Up:  | Sweep up and shovel into suitable containers for disposal.   |

## 7. HANDLING AND STORAGE

|                           |   |
|---------------------------|---|
| Max. Storage Temperature: | 120°F (49°C)  |
| Handling:                 | Handle in accordance with good industrial hygiene and safety practices. Wash thoroughly after handling. Avoid creating dust.  |
| Storage:                  | Containers should be tightly closed to prevent contamination with foreign materials and moisture. Protect equipment (e.g. storage bins, conveyors, dust collectors) with explosion vents. |

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

|                              |   |
|------------------------------|---|
| Exposure Limits:             | Not applicable  |
| Ventilation Measures: system | Provide good ventilation and/or an exhaust in the work area.  |
| Respiratory Protection:      | In the case of dust, use respirator with an approved filter.  |
| Hand Protection:             | Wear heat-resistant gloves when handling molten material.   |
| Eye Protection:              | Safety glasses with side-shields  |
| Skin & Body Protection:      | No special skin protection requirements during normal handling and use.   |
| Other Protective Measures:   | Wash hands before breaks and after work.<br>Educate and train employees in the safe use and handling of this product.<br>Purgings should be collected as small flat thin shapes or thin strands to allow for rapid cooling. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                            |                      |
|----------------------------|----------------------|
| Physical State:            | Optical Clear Sheets |
| Color:                     | Transparent          |
| Odor:                      | Odorless             |
| pH:                        | Not applicable       |
| Melting Point:             | Not available        |
| Boiling Point:             | Not available        |
| Decomposition Temperature: | 716°F (380°C)        |

|                            |                       |
|----------------------------|-----------------------|
| approx. Flash Point:       | > 842 ° F (> 450 ° C) |
| Auto-ignition Temperature: | 880° F (471°C)        |
| Explosion Limits:          | Not available         |
| Evaporation Rate:          | Not applicable        |
| Vapor Pressure:            | Not applicable        |
| Vapor Density:             | Not applicable        |
| Relative Density:          | 1.27                  |
| Solubility:                | Insoluble             |

## 10. STABILITY AND REACTIVITY

|                      |   |
|----------------------|---|
| Stability:           | Stable. Hazardous polymerization does not occur.  |
| Conditions to Avoid: | Protect from excessive heat. Keep away from sources of ignition and heat. Avoid dust formation. |
| Materials to Avoid:  | None under normal conditions of use.<br>Hazardous Decomposition                                 |
| Products:            | Thermal decomposition or combustion may emit vapors, carbon monoxide, or carbon dioxide.        |

## 11. TOXICOLOGICAL INFORMATION

**This product should not be harmful under normal conditions of use.**

|                |  |
|----------------|--|
| Inhalation:    | Unlikely to be harmful by inhalation under ambient temperature. At high temperature, products of thermal decomposition can be irritating to the respiratory system.  |
| Skin Contact:  | Not a skin sensitizer, and is non-irritating to skin under ambient temperature. At high temperature, contact with the product can cause serious burns.   |
| Ingestion:     | Unlikely to be harmful by ingestion under ambient temperature.   |
| Eye Contact:   | This product in the form of dust can be irritating to the eyes. At high temperature, products of thermal decomposition can be irritating to the eyes.  |
| Toxicity Data: | Acute oral toxicity LD50 = > 3,200 mg/kg (rat, male)<br>Acute oral toxicity LD50 = > 3,200 mg/kg (mouse, male)<br>Acute dermal toxicity LD50 = > 1,000 mg/kg (guinea pig)<br>Skin irritation = slightly irritating (guinea pig)<br>Eye irritation = slightly irritating (rabbit)<br>Eye Irritation = non-irritating (guinea pig) |

|                |                  |
|----------------|------------------|
| Carcinogenity: | Non-carcinogenic |
|----------------|------------------|

## 12. ECOLOGICAL DATA INFORMATION

**This product is a solid, inert product with low volatility, and is essentially insoluble in water.**

|                               |   |
|-------------------------------|---|
| Eco toxicity:                 | This product should have low toxicity to aquatic and terrestrial organisms.   |
| Mobility:                     | Due to the solid nature of this product, it should have low mobility in soil.   |
| Persistence at Degradability: | This product is non-biodegradable.  |
| Bio accumulation:             | This solid product has a low potential for bioaccumulation.   |
| Effect in Sewage Plants:      | May be separated mechanically.  |
| Ecological Data:              | Fish toxicity LC50/96-hr = > 100 mg/l (pimephales promelas)<br>Aquatic invertebrates toxicity LC50/96-hr = > 100 mg/l (daphnia magna) |

## 13. DISPOSAL CONSIDERATION

**Waste disposal should be in accordance with all countries federal, state and local environmental laws and regulations.**

## 14. TRANSPORT INFORMATION

Transport Information Regulated for shipping? No

Proper Shipping Name TAGLUS Aligner and or Retainer Packing Group NA

Do changes in quantity, packaging, or shipment method change product classification? NA

Hazard Class NA; Identification Number NA;

Other Special shipping notes: This product is not regulated by DOT, IMO, IATA, and Canadian TDG and associated regulation, ADR or RID.

## 15. REGULATORY INFORMATION

|   |  |
|---|--|
| OSHA Hazard Communication:  | Non-Hazardous  |
| Toxic Substances Control Act:   | Listed CERCLA Hazardous  |
| Substances (40 CFR 302):  | None   |
| SARA Section 311/312:   | Non-hazardous SARA Section 302 Extremely   |
| Hazardous Substances (40 CFR 355, Appendix A): SARA Section 313 Toxic | None   |
| Chemicals (40 CFR 372.65):  | None   |
| RCRA Hazardous Wastes (40 CFR 261):                                   | When this product becomes a waste, it is identified as a solid but NOT hazardous waste under RCRA criteria (40 CFR Part 261) |
| Canadian WHMIS:   | None   |

## 16. OTHER INFORMATION

HMIS Rating: Health = 1  
Flammability = 1  
Physical Hazard = 0

SDS Prepared By: Vedia Solutions

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