



AZ-TPS PI

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)
Issue date: 6/1/2022 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Article Product Number: 5010-11S1-251
Product name : AZ-TPS PI Model Number: RTPIS-025100

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Thermal insulation / Thermal management

1.3. Supplier

Blueshift Materials
5 South Spencer Rd
Spencer, MA 01562
T (888) 350-7586

1.4. Emergency telephone number

Emergency number : Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300 or 1-703-527-3887 (24 HOURS)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

None

2.2. GHS Label elements, including precautionary statements

According to the corresponding national regulations there is no labelling obligation for this product.

2.3. Other hazards which do not result in classification

None

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
AZ-TPS PI	-	
Proprietary Polyimide	CAS-No.: Not available	30 – 40
Polyimide film	CAS-No.: Not available	30 – 35
Proprietary Silicon Adhesive	CAS-No.: Not applicable	27 – 32

AZ-TPS PI

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

The specific chemical\ component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

SECTION 4: First-aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Not considered a potential route of exposure in its original form.
- First-aid measures after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use. Wash skin with plenty of water.
- First-aid measures after eye contact : Not considered a potential route of exposure in its original form. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Ingestion is not considered a potential route of exposure. Call a poison center/doctor/physician if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

- Potential Adverse human health effects and symptoms : Not expected to present a significant hazard under anticipated conditions of normal use. In case of exposure to dust, vapours, or smoke during processing, such as cutting, grinding, or heating: . May be slightly irritating to eyes, respiratory system and skin.
- Symptoms/effects after eye contact : Not considered a potential route of exposure in its original form. In case of exposure to dust, vapours, or smoke during processing, such as cutting, grinding, or heating: Mild irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Adapt extinguishing media to the environment for surrounding fires. Water spray. Dry powder. Foam.
- Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

- Fire hazard : No data available
- Hazardous decomposition products in case of fire : Carbon monoxide and carbon dioxide

5.3. Special protective equipment and precautions for fire-fighters

- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

AZ-TPS PI

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid dust formation.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.
Maximum storage period : 2 years
Storage temperature : < 77 °F

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

AZ-TPS PI
No additional information available
Proprietary Polyimide (Not available)
No additional information available
Proprietary Silicon Adhesive (Not applicable)
No additional information available
Polyimide film (Not available)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.
Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:
Protective gloves
Eye protection:
Not expected to present a significant hazard under anticipated conditions of normal use. Where excessive dust may result, wear goggles. Safety glasses

AZ-TPS PI

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Skin and body protection:

Not expected to present a significant hazard under anticipated conditions of normal use

Respiratory protection:

Not expected to present a significant hazard under anticipated conditions of normal use

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Opaque. film.
Color	: Various
Odor	: Odourless
Odor threshold	: No data available
pH	: No data available
Melting point	: Not applicable
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: > 650 °F
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: Not applicable
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: > 850 °F
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

AZ-TPS PI

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

10.4. Conditions to avoid

Avoid dust formation.

10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. At temperatures above 400 °C carbon monoxide and carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Dust or vapor generated during processing such as cutting, grinding, or heating may pose a listed hazard
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified (Conclusive but not sufficient for classification. Product is non-hazardous because all hazardous ingredients are encapsulated within a polymer)
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Potential Adverse human health effects and symptoms	: Not expected to present a significant hazard under anticipated conditions of normal use. In case of exposure to dust, vapours, or smoke during processing, such as cutting, grinding, or heating: . May be slightly irritating to eyes, respiratory system and skin.
Symptoms/effects after eye contact	: Mild eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

AZ-TPS PI

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

14.1. UN number

Not regulated for transport

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Not applicable

Proper Shipping Name (IMDG) : Not applicable

Proper Shipping Name (IATA) : Not applicable

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : Not applicable

IMDG

Transport hazard class(es) (IMDG) : Not applicable

IATA

Transport hazard class(es) (IATA) : Not applicable

14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

DOT

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed as Active, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

Proprietary Polyimide	CAS-No. Not available	30 – 40%
-----------------------	-----------------------	----------

AZ-TPS PI

Safety Data Sheet

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Proprietary Silicon Adhesive	CAS-No. Not applicable	27 – 32%
Polyimide film	CAS-No. Not available	30 – 35%

15.2. International regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

according to the federal final rule of hazard communication revised on 2012 (HazCom 2012)

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.