

SAFETY DATA SHEET



Biomeric, LLC
 Environmental Health & Safety
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TRANSPORTATION EMERGENCY
 CALL Envirocare: 866.230.8485

NON-TRANSPORTATION
 Emergency Phone: 866.230.8485
 Information Phone: (888) 874-7787

1. Product and Company Identification

Product Name:	QTHAN-ALC-75A-000-000-000	QTHAN-ARC-75A-000-002-000
	QTHAN-ALC-80A-000-000-000	QTHAN-ARC-80A-000-002-000
	QTHAN-ALC-83A-000-000-000	QTHAN-ARC-85A-000-002-000
	QTHAN-ALC-85A-000-000-000	QTHAN-ARC-90A-000-002-000
	QTHAN-ALC-90A-000-000-000	QTHAN-ARC-93A-000-002-000
	QTHAN-ALC-95A-000-000-000	QTHAN-ARC-95A-000-002-000
	QTHAN-ALC-55D-000-002-000	QTHAN-ARC-55D-000-002-000
	QTHAN-ALC-60D-000-002-000	QTHAN-ARC-65D-000-003-000
	QTHAN-ALC-65D-000-003-000	QTHAN-ARC-72D-000-003-000
	QTHAN-ALC-72D-000-003-000	QTHAN-ARC-80D-000-001-000
Chemical Family:	<i>Thermoplastic Polyurethane</i>	
Description:	<i>Quadrathane Natural</i>	
(M)SDS No.:	1049	
Product Used & Restrictions:	<i>Use for Extrusion & Injection Molding</i>	

2. Hazards Identification

OSHA

All components have been reviewed and categorized as non-hazardous in this formulation according to CFR 29 1910.1200.

GHS label Elements

Pictogram: N/A

Signal Word: N/A

Precautionary Statements: NA

Hazard Statements:

This product does not require a hazard warning label in accordance with GHS.

Melted product is flammable and produces intense heat and dense smoke during burning. Irritating gases or fumes may be given off during burning or thermal decomposition. May cause mechanical irritation (abrasion). Causes a slipping hazard if spilled. Contact with hot material will cause thermal burns.

See Section 11 for complete health hazard information.

3. Composition/Information on Ingredients

<u>Components:</u>	<u>CAS-No:</u>	<u>Weight %:</u>
Thermoplastic Polyurethane	None	>95

4. First aid measures

Eye contact

In case of contact, flush eyes with plenty of water for a minimum of 15 minutes.

Seek medical attention if irritation persists.

Skin contact

Seek medical attention if thermal burn occurs.

For burns, immediately flood burnt area with plenty of water and cover area with a clean, dry dressing.

If molten material should contact the skin and adhere, cool quickly with running water

Do not attempt to remove. Seek immediate medical attention.

Inhalation

Move to fresh air in the event of accidental inhalation of fumes that result from overheating or combustion of the product. If symptoms continue, seek medical attention.

Ingestion

If discomfort persists, seek medical attention.

Notes to physician

Treat symptomatically. An individual having a pulmonary sensitization reaction to this material should be removed from further exposure to any isocyanate.

5. Fire-fighting measures

Suitable extinguishing media: Water, Foam, Dry chemical
Do not use water jets!

Special Fire Fighting Procedures

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.

Unusual Fire/Explosion Hazards

Toxic and irritating gases/fumes may be given off during burning or thermal decomposition.
Solid does not readily release flammable vapors.

6. Accidental release measures

Spill and Leak Procedures

Collect free solid for recycling and/or disposal. Clean up promptly by sweeping or vacuuming.
If molten, allow material to cool. Place into an appropriately marked container for disposal.
Material spills may cause a safety hazard such as slipping or tripping.

7. Handling and storage

Storage period

Not Established

Storage Precautions

Avoid breathing dust. Containers should be kept tightly closed to prevent contamination. Material is hygroscopic and may absorb small amounts of atmospheric moisture. Store in well ventilated place. Use good housekeeping measures to prevent dust accumulations.
Store in a cool, dry place and out of direct sunlight. Keep containers closed at all times to prevent accumulation of moisture.

Handling Precautions

Handle in accordance with good industrial hygiene and safety practices. Wash hands thoroughly after handling. Loading and unloading may cause nuisance dust to form. Conduct any operations emitting fumes or vapors (including heat joining, cutting and or sealing of articles and clean up) under well ventilated conditions. Avoid breathing process vapors. Do not hold product for extended periods of time at elevated temperatures or allow thick masses of hot polymer to accumulate because they can decompose emitting hazardous gasses. Do not taste, swallow, or chew products. Wash thoroughly after processing. Do not store or consume food in processing areas. Fume condensates may include hazardous contaminants from additives. Condensate may be combustible and should be periodically removed from exhaust hoods, ductwork, and other surfaces. Impervious gloves should be worn during cleanup operations to prevent skin contact. Post thermal processing activities necessary to produce molded articles (such as cutting, sanding, sawing, grinding, drilling, or regrinding) may create dust or "fines". Powders, dust, and/or fines may pose a dust explosion hazard. Electrostatic buildup may occur when pouring or transferring this product from its container. The spark produced may be sufficient to ignite vapors of flammable liquids. Always transfer product by means which void static buildup. Avoid pouring product directly from its container into combustible or flammable solvent. The major off-gasses from normal melt processing are expected to be water vapor and carbon dioxide. Other trace volatile organic components may also be emitted. Wash hands after handling.

8. Exposure controls/personal protection

Industrial Hygiene/Ventilation Measures

During normal processing, use general dilution and/or local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products.
Special ventilation and personal protective equipment (PPE) are required to control exposure to potentially harmful decomposition products whenever it is heated to temperatures above its decomposition temperature. Examples would include hot knife cutting, grinding, or sawing.

Respiratory protection

In the absence of sufficient general dilution or local exhaust ventilation a NIOSH approved respirator may be needed during die cleaning, high temperature processing, purging or when thermal decomposition is suspected. Respiratory protection programs must comply with 29 CFR 1910.134

Hand protection

Wear heat resistant gloves when handling molten material.

Eye protection

Safety glasses with side-shields.

Skin and body protection

No special skin protection requirements during normal handling and use.

Additional Protective Measures

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. DO NOT PLACE IN MOUTH.

9. Physical and chemical properties

Form:	Solid
Appearance:	Pellet
Color:	Colorless to yellow
Odor:	Slight
Odor Threshold:	Not Applicable
pH:	Not Applicable
Melting Point:	110-170°C
Flash point:	Not Applicable
Boiling point:	Not Applicable
Lower explosion limit:	Not Applicable
Evaporation rate:	Not Applicable
Upper explosion limit:	Not Applicable
Specific Gravity:	1.1-1.3
Vapor Density:	Not Applicable
Vapor Pressure:	Not Applicable
Solubility in Water:	Not Soluble
Auto ignition temperature:	Not Determined
Decomposition temperature:	>230°C
Softening point:	Not Determined
Bulk density:	Not Determined

10. Stability and reactivity

Hazardous Reactions

Hazardous polymerization will not occur.

Stability

This material is stable under standard storage and handling conditions.

Incompatible Materials

Keep material away from acids and strong oxidizing agents

Conditions to avoid

Keep away from flames

Hazardous decomposition products

Fire and Other Thermal Decomposition: Oxides of Carbon and Nitrogen are possible.

11. Toxicological information

Toxicity Note

No data available for this product.

Potential Health Effects

Primary Routes of Entry: Inhalation, Skin Contact, Eye Contact
Medical Conditions Aggravated by Exposure: Respiratory disorders

HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE

Potential Health Effects

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label.

Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

Inhalation : Processing vapors may be irritant to mucous membranes and respiratory tract.

Skin contact: Exposure to molten material may cause deep skin burns. Molten material may adhere to skin.

Eye contact: Exposure to the pellets/particles may cause discomfort due to particulate nature.

May cause physical irritation of the eye.

Ingestion: No adverse effect expected, however large amounts may cause nausea and vomiting.

Carcinogenicity:

Human Exposure: No Carcinogenic components as defined by IARC, NTP and/or OSHA

12. Ecological information

No data available for this product.

13. Disposal considerations

Waste Disposal Method

Waste disposal shall be managed in accordance with existing federal, state and local environmental control laws.

14. Transport information

Land transport (DOT)

Non-Regulated

Sea transport (IMDG)

Non-Regulated

Air transport (ICAO/IATA)

Non-Regulated

15. Regulatory information

United States Federal Regulations

OSHA Hazcom Standard Rating: Non-Hazardous

U.S. EPA CERCLA Hazardous Substances (40 CFR 302):

Components

None

SARA Section 311/312 Hazard Categories:

Non-hazardous under Section 311/312

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A):

Components

None

U.S. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required:

Components

None

U.S. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):

Components

None

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements contact the appropriate state or federal agencies.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

Silica CAS#: 7631-86-9 (in some Quadrathane grades)

16. Other information

HMIS Rating

Health	0
Flammability	1
Physical Hazard	0

0=Minimal 1=Slight 2=Moderate 3=Serious 4=Severe

* = Chronic Health Hazard

The method of hazard communication for Biomerics LLC is comprised of Product Labels and Safety Data Sheets. HMIS ratings are provided by Biomerics LLC as a customer service.

SDS Number: 1049
Version Date: 11/21/18
Version: 1.00

Change to the business address and emergency contact numbers

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Biomerics LLC. The information in this SDS relates only to the specific material designated herein. Biomerics LLC assumes no legal responsibility for use of or reliance upon the information in this SDS.