# 1. Identification

1.1 **Product Identifier**
- **Description**: Ceramic Shapes and parts manufactured from Sialon (Silicon Aluminum Oxynitride).
- **Contains**: Sialon (CAS 112760-32-4)
- **Synonyms**: Sialon ST

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
- **Recommended use**: Consult the supplier
- **Uses advised against**: Users are recommended to seek further advice

1.3 **Supplier’s details**
- **McDanel Advanced Ceramic Technologies**
  - 510 Ninth Avenue
  - Beaver Falls, Pa 15010-0560

1.4 **Emergency phone number**
- **McDanel**: +1-724-843-8300

# 2. Hazards identification

2.1 **Classification of the substance or mixture**
- **GHS Classification**: Not classified as hazardous
- **REGULATION (EC) No 1272/2008**: Not classified
- **Classification according to Directive 67/548/EEC or 1999/45/EC**: Not classified

2.2 **Label elements**
- **Symbol(s)**: Not applicable
- **Signal word**: None
- **Hazard Statements**: None
- **Precautionary statements**: In circumstances where dust may be generated from machining or disposal:
  - P261 – Avoid breathing dust/fume/gas/mist/vapors/spray
  - P280 – Wear eye protection/face protection
  - P285 – In case of inadequate ventilation wear respiratory protection
  - P305 + P351 + P338 – If in eyes, rinse cautiously with water for several minutes
  - P302 + P352 – If on skin, wash with plenty of soap and water

2.3 **Other information**
- This product is an article, a monolithic material.
3. Composition/information on ingredients

3.1 Substances
This product is a monolithic material.

4. First aid measures

4.1 Description of first aid measures
In circumstances where dust may be generated from machining or disposal:

Eye Contact  Rinse cautiously with water for several minutes. Remove contact lenses if present, and easy to do. Continue rinsing.
Skin Contact  Wash skin with soap and water.
Ingestion  Rinse mouth.
Inhalation  Move to fresh air.
General Advise  If symptoms persist, call a physician. Show this safety data sheet to doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed
No information available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician
Treat symptomatically

5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media
The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which must not be used for safety reasons
No information available

5.2 Special hazards arising from the substance or mixture

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases
Not applicable

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Wear personal protective equipment when machining.

6.2 Environmental precautions
No special environmental precautions required.
6.3 Methods and material for containment and cleaning up
Recover product. Place into appropriate container for disposal.

7. Handling and storage

7.1 Precautions for Safe Handling
In circumstances where dust may be generated from machining or disposal:

Handling
Provide appropriate exhaust ventilation at places where dust is formed.

General Hygiene Considerations
Handle in accordance with good industrial hygiene and safety practice.

Exposure scenario
No information available

7.2 Conditions for safe storage, including any incompatibilities
Keep in a dry place.

7.3 Specific end use(s)
No information available

8. Exposure controls/personal protection

8.1 Control parameters

Exposure limits
No occupational exposure limits have been established for silicon aluminum oxynitride dust.

8.2 Exposure controls

Engineering controls
Ensure adequate ventilation in circumstances where dust may be generated from machining or disposal, especially in confined areas.

Personal protective equipment
In circumstances where dust may be generated from machining or disposal:

Eye Protection Safety glasses with side-shields.
Skin Protection No special protective equipment required.
Hand Protection No special protective equipment required.
Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Environmental exposure controls
Avoid dust formation

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties
10. Stability and reactivity

10.1 Reactivity
None under normal processing

10.2 Chemical Stability
Stable under normal conditions

10.3 Possibility of Hazardous Reactions
None under normal processing

10.4 Conditions to Avoid
No known conditions to avoid

10.5 Incompatible materials
No incompatible materials known

10.6 Hazardous Decomposition Products
None under normal processing

11. Toxicological information

11.1 Information on toxicological effects
Note: The information provided solely pertains to dust exposure.

Acute toxicity
Acute oral toxicity  No information available
Acute dermal toxicity  No information available
Acute inhalation toxicity  No information available

Chronic toxicity
Irritation  No information available
Corrosivity  No information available
Sensitization  No information available
Mutagenic effects  No information available
Carcinogenic effects  This substance has no evidence of carcinogenic properties
Reproductive effects  No information available
Developmental effects  No information available
Aspiration hazard  No information available

12. Ecological information

12.1 Toxicity
Not water endangering.

12.2 Persistence and degradability
The product is not readily biodegradable.

12.3 Bioaccumulative potential
The product is not bioaccumulating.

12.4 Mobility in soil
Not applicable, due to the form of the product.

12.5 Results of PBT and vPvB assessment
This product does not contain any PBT or vPvB substances.

12.6 Other adverse effects
None known

13. Disposal considerations

13.1 Waste treatment methods

Waste from residue/unused products
Disposal should be in accordance with applicable regional, national and local laws and regulations. Avoid dust formation.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Note: Not classified as dangerous according to transport regulations.

DOT (US) Not regulated
15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Note: Regulations apply to dust.

United States Federal Regulations
OSHA Non-hazardous
TSCA Not listed
SARA Title III Section 302 Extremely Hazardous Substances: Not listed
Section 311/312 Hazardous Categories: None
Section 313 Toxic Categories: None

United States - State Regulations
California Proposition 65 Not listed
Massachusetts Right To Know List Not listed
New Jersey Right To Know Hazardous Substances List Listed
Pennsylvania Right To Know Hazardous Substance Listed

16. Other information including information on preparation and revision of the SDS

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Key
Transportation Regulations
IMDG International Maritime Dangerous Goods (UN)
IMO International Maritime Organization (UN)
RID European Agreement Concerning the International Carriage of Dangerous Goods by Rail
ADR European Agreement Concerning the International Carriage of Dangerous Goods by Road
ICAO International Civil Aviation Organization
IATA International Air Transport Association

Updates
The most current version of this Safety Data Sheet is available at this URL:

Disclaimer
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handling, use, transportation and disposal, and is not to be considered a warranty or quality specification. McDanel Advanced Ceramic Technologies assumes no liability to any user based upon use of product or reliance upon the information contained in this Safety Data Sheet.