



SAFETY DATA SHEET

1. Identification of the Product and of the Company

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|----------------------|---|
| Product Name: | SYALON 501 (SINTERED) |
| Supplier: | International Syalons (Newcastle) Limited Stephenson Street Willington Quay Wallsend Tyne & Wear NE28 6TT UK |
| Telephone: | +44(0) 191 295 1010 |
| Email: | enquiries@syalons.com |
| Description: | Sintered silicon nitride ceramic |

2. Hazard Identification

2.1 Classification

Classification according to Regulation (EC) No. 1272/2008: Not classified.

Classification according to Directive 1999/45/EC: Not classified.

2.2 Label Elements

Labelling according to Regulation (EC) No. 1272/2008: No labelling required.

2.3 Other Hazards

Other Hazards which do not result in classification: Dust from grinding can cause mechanical irritation of the eyes, skin, nose and throat.

3. Composition / Information on Ingredients

Composition: Major ingredients – silicon nitride (Si_3N_4), aluminium nitride (AlN), aluminium oxide (Al_2O_3) yttrium oxide (Y_2O_3) and titanium nitride (TiN).

4. First Aid Measures

4.1 Description of First Aid Measures

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| Inhalation: | Remove victim to fresh air. Seek medical attention if symptoms occur. |
| Eye Contact: | Rinse eyes with water copiously. Seek medical attention if symptoms occur. |
| Skin Contact: | Wash thoroughly with soap and water. Seek medical attention if symptoms occur. |
| Ingestion: | Extremely unlikely – seek medical advice as necessary. |

4.2 Most important Symptoms and effects, both acute and delayed

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|------------------|---------------------------|
| Symptoms: | No information available. |
| Risks: | No information available. |

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available.

5. Firefighting Measures

5.1 Extinguishing Media

Not applicable – material is non-flammable.

5.2 Special Hazards arising from Substance or Mixture

Not applicable – material is non-flammable.

5.3 Advice for Firefighters

Not applicable – material is non-flammable.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions: Use personal protective equipment.
Avoid dust formation.
Avoid dust accumulation in enclosed space.

6.2 Environmental Precautions

Environmental Precautions: No special environmental precautions required.
Product is not biodegradable.

6.3 Methods and Materials for Containment and Cleaning Up

Methods for Cleaning Up: Brush or vacuum up any spillages.

6.4 Reference to other sections

For personal protection see section 8.

7. Handling and Storage

7.1 Precautions for Safe Handling

Advice on Safe Handling: Avoid dust formation when grinding.
Wash hands thoroughly after handling.

7.2 Conditions for Safe Storage, including any Incompatibilities

Requirements for Storage: Keep the material dry. Store at room temperature (15 to 25°C recommended).

8. Exposure Controls / Personal Protection

8.1 Control Parameters

Occupational Exposure Limits: No exposure limit value known.

8.2 Exposure Controls

Engineering Controls: Dust must be extracted directly at point of origin.

Personal Protective Equipment: Wear appropriate personal protection equipment – e.g. gloves, overalls, eye protection and suitable respirator. When working with large quantities use appropriate hygiene / extraction system.

Hygiene: Wash hands, forearms and face thoroughly after handling material before eating, smoking, using the lavatory and at the end of the working day.

9. Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

Physical State: Solid.
Colour: Grey.
Odour: None.
Melting Point: >1800°C.
Solubility in water: Virtually insoluble.

9.2 Other Information

No additional information.

10. Stability and Reactivity

10.1 Reactivity

Conclusion: Stable under normal conditions.

10.2 Chemical Stability

Conclusion: Stable under normal conditions.

10.3 Possibility of Hazardous Reactions

Conclusion: None known.

10.4 Conditions to Avoid

Conclusion: None known.

10.5 Incompatible Materials

Conclusion: None known.

10.6 Hazardous Decomposition Products

Decomposition Products: No known hazardous decomposition products.

11. Toxicological Information

11.1 Information on Toxicological Effects

Acute Toxicity: Not available.

Skin Irritation: Contact may cause irritation.

Carcinogenicity: None known.

Eye Contact: Contact may cause irritation.

Inhalation: None known.

Ingestion: None known.

12. Ecological Information

12.1 Toxicity

Conclusion: None known.

12.2 Persistence and Degradability

Conclusion: None known.

12.3 Bioaccumulative Potential

Conclusion: None known.

12.4 Mobility in Soil

Conclusion: None known.

12.5 Results of PBT and vPvB assessment

Conclusion: None known.

12.6 Other Adverse Effects

Conclusion: None known.

13. Disposal Considerations

13.1 Waste Treatment Methods

Product: Dispose in accordance with all applicable local and national regulations.

14. Transport Information

Transport Regulations: No special conditions apply.

15. Regulatory Information

15.1 Safety, Health and Environmental Regulations / Legislation Specific for the Substance or Mixture

EU Regulations: Not applicable.

16. Other Information

Notice to Reader: To the best of our knowledge, the information contained herein is accurate. However, the above named supplier does not assume any liability whatsoever for the accuracy or completeness of the information herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.