

SAFETY DATA SHEET (SDS)

ZIRCONIA ALUMINA FLAP DISC
Version: 1.0 Issue Date: JAN 2026

SECTION 1: Identification

1.1 Product Identifier

Product Name: ZIRCONIA ALUMINA FLAP DISC

Product Type: Coated Abrasive / Flap Disc

1.2 Recommended Use

Industrial grinding, deburring, surface preparation.

1.3 Supplier Details

International Abrasives Ltd, Unit 18, Box Road, LE9 6TJ

1.4 Product Safety Standard

Conforms to EN13743 safety requirements for coated abrasive products.

SECTION 2: Hazard Identification

2.1 Classification

Not classified as hazardous according to Regulation (EC) No 1272/2008 (CLP).

This product is an article under REACH and not subject to CLP classification.

2.2 Label Elements

Signal word: Not applicable

Pictograms: Not applicable

Hazard statements: Not applicable

Additional EU information: This product is an article under REACH and not subject to CLP labelling.

2.3 Other Hazards

- Dust generated during grinding may cause respiratory irritation.
- Flying particles may cause eye injury.
- Mechanical abrasion may irritate skin.

SECTION 3: Composition / Information on Ingredients

(Values are typical ranges based on internal testing and industry norms)

Ingredient	CAS No.	% by Weight
Zirconia Alumina (fused ZrO ₂ -Al ₂ O ₃)	Mixture	50-70%
Fiberglass Backing	Mixture	15-25%
Phenolic Resin	9003-35-4	10-15%
Titanium Dioxide	13463-67-7	<5%
Quartz (Crystalline Silica)	14808-60-7	<1%

Exact percentages are withheld as trade secret.

REACH: This product is considered an article and is exempt from registration.

SECTION 4: First Aid Measures

Inhalation: Move to fresh air. Seek medical attention if symptoms persist.

Skin Contact: Wash with soap and water.

Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses if present.

Ingestion: Not expected. Seek medical advice if discomfort occurs.

SECTION 5: Fire-Fighting Measures

Suitable Extinguishing Media: Water spray, foam, dry chemical, CO₂.

Special Hazards:

Thermal decomposition may release:

- Carbon monoxide (CO)
- Carbon dioxide (CO₂)
- Phenolic vapors

Protective Equipment:

Firefighters should wear self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

Personal Precautions: Avoid breathing dust from damaged discs.

Environmental Precautions: Prevent uncontrolled dust release.

Cleanup: Not applicable for solid articles.

SECTION 7: Handling and Storage

Handling:

- Avoid breathing grinding dust.
- Inspect discs before use; replace if cracked or damaged.
- Wear eye and face protection.

Storage:

Store in a cool, dry area away from moisture and direct sunlight.

SECTION 8: Exposure Controls / Personal Protection

8.1 Occupational Exposure Limits

Substance	Agency	Limit
Particulates (PNOS)	ACGIH	10 mg/m ³ (inhalable)
Titanium Dioxide	OSHA	15 mg/m ³ (total dust)
Quartz Silica	ACGIH	0.025 mg/m ³ (respirable)

8.2 Exposure Controls

Engineering Controls: Local exhaust ventilation during grinding.

Eye/Face Protection: Safety glasses with side shields or face shield.

Respiratory Protection: Dust mask or N95 respirator.

Skin Protection: Protective gloves recommended.

EU OEL: Follow Directive 2000/39/EC and 2009/161/EU for workplace dust exposure.

SECTION 9: Physical and Chemical Properties

Property	Value
Physical State	Solid
Color	Blue
Odor	Slight resin odor
pH	Not applicable
Flash Point	Not applicable
Solubility	Insoluble in water
Autoignition Temperature	Not applicable

SECTION 10: Stability and Reactivity

Stability: Stable under normal conditions.

Conditions to Avoid: Extreme heat, open flame.

Hazardous Decomposition: CO, CO₂, phenolic vapors.

SECTION 11: Toxicological Information

Likely Routes of Exposure:

- Inhalation of grinding dust
- Eye contact
- Skin contact

Symptoms:

- Respiratory irritation

- Eye redness, tearing
- Skin abrasion

Carcinogenicity:

Quartz silica and titanium dioxide are carcinogenic only when inhaled as respirable dust. Normal use does not generate hazardous levels from the disc itself.

SECTION 12: Ecological Information

No known significant environmental hazards.

Not classified as hazardous to the environment under EU criteria.

SECTION 13: Disposal Considerations

Dispose of used discs according to local regulations.

Consider contamination from the material being abraded.

Dispose according to Directive 2008/98/EC.

SECTION 14: Transport Information

Not classified as dangerous goods under ADR/RID, IMDG, IATA.

SECTION 15: Regulatory Information

- Product is considered an article under TSCA and REACH.
 - Not subject to GHS classification requirements.
 - Conforms to EN13743 for coated abrasive products.
 - This SDS is prepared according to Annex II of REACH Regulation (EC) No 1907/2006.
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SECTION 16: Other Information

Prepared in accordance with OSHA Hazard Communication Standard (29 CFR 1910.1200).

This SDS applies to the product as supplied.

Grinding dust composition depends on the workpiece material.

No H-statements apply.