

Section 1: Product Identification

Product Name

Anti-Surge Thick Film Chip Resistors

Name of Manufacturer or Supplier of the goods

Premier Farnell plc

150 Armley Road, Leeds, LS12 2QQ

+44 (0) 8701 202530

Emergency telephone number

+44 1865 407333

Section 2: General Composition

Part name	Substance	CAS NO	Substance percent (%)
			AS05
Alumina Substrate	Aluminium trioxide	1344-28-1	80.091
	Silicon dioxide	14808-60-7	1.669
	Magnesium oxide	1309-48-4	1.669
Termination Inner (C1)	Silver	7440-22-4	5.670
	Palladium	7440-05-3	0.081
	Glass	65997-18-4	0.243
Termination Inner (C2)	Silver	7440-22-4	0.494
	Glass	65997-18-4	0.074
Termination (Inner) C3	Nickel	7440-02-0	0.412
	Chromium	7440-47-3	0.103
Resistive Element	Ruthenium oxide	12036-10-1	0.026
	Silver	7440-22-4	0.128
	Palladium	7440-05-3	0.051
	Glass	65997-18-4	0.307
Protective Coating (G1)	Glass	65997-18-4	1.031
	Ethyl cellulose	9004-57-3	0.046
	Turpentine alcoholize	10482-56-1	0.462
Protective Coating (G2)	Resin	25068-38-6	0.714
	Colour pigment	68186-91-4	0.198
	Silicon dioxide	60676-86-0	0.496
	Talc	14807-96-6	0.079
Termination (Between) Ni Plating	Nickel	7440-02-0	2.995
Termination (Outer) Sn Plating	Tin	7440-31-5	2.947
M/K	Epoxy resin	25068-38-6	0.007
	Barium sulfate	7727-43-7	0.002
	Titanium dioxide	13463-67-7	0.004
Total			100

Section 3: Hazards Identification

Primary Routes of Entry	: Not applicable
Signs and Symptoms of Exposure	: Not applicable
Medical Conditions	
Aggravated by Exposure	: Not applicable
Potential Health Effects Inhalation	: Not applicable
Skin Contact	: Not applicable
Eye Contact	: Not applicable
Long Term Exposure	: Not applicable
Ingestion	: Not applicable
Long Term Exposure	: Not applicable

Section 4: First Aid Measures

Inhalation	: Not applicable
Skin Contact	: Not applicable
Eye Contact	: Not applicable
Ingestion	: Not applicable

Section 5: Fire Fighting Measures

Flash Point	: Not applicable
Autoignition	: Not applicable
Flammability Limits (%)	: Not flammable
Extinguishing Media	: Water, Foam, Carbon dioxide or dry chemical.
Protective equipment	: Wear self-contained respiratory protective device. Wear fully protective suit.
Fire and Explosion Hazard	: No unusual fire or explosion hazards are known for this product.
Hazardous Combustion Products	: Oxides of carbon.

Section 6: Accidental Release Measures

Transfer contaminated products to separate, suitable containers for recovery or disposal. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling And Storage

Handling	: Prevent formation of dust.
Storage	: Store in a cool, dry place.

Section 8: Exposure Controls/Personal Protection

Ventilation	: None required
Eye Protection	: None required
Protective Clothing	: Wear appropriate clothing.
Gloves	: Wear appropriate gloves to avoid any skin injury.
Breathing Equipment	: Use suitable respiratory protective device in case of insufficient ventilation.

Section 9: Physical And Chemical Properties

Description	: This product is solid.
Melting Point	: Not applicable
Freezing Point	: Not applicable
Pressurized	: Not applicable
Boiling Point	: Not applicable
PH	: Not applicable
Specific Gravity (H2O=1)	: Not applicable
Evaporation Rate	: Not applicable
Water Solubility	: This product isn't water soluble.
% Volatility	: Not applicable

Section 10: Stability And Reactivity

Conditions to Avoid	: No decomposition if used according to specifications.
Hazardous Decomposition	: No dangerous decomposition products known.

Section 11: Toxicology Information

Acute Toxicity	: This product has not acutely toxic.
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Section 12: Ecological Information

Not applicable.

Section 13: Disposal Information

Waste disposal should be in accordance with state and local environmental regulations.

Section 14: Transportation Information

Transportation should be in accordance with state and local environmental regulations.

Section 15: Regulatory Information

Not applicable

Section 16: Other

NA

Part Number

MCPAS05W2J0271T5E

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