



CP0158 / 1

# Materials Safety Data Sheet

## RFI / EMI Shielding Aerosol

Stock Number: 568-483

### Section 1. Identification of the Substance/Preparation and Company

Product Name:	RFI / EMI Shielding Aerosol.
Supplier:	RS Components Ltd., P.O.Box 99, Corby, Northants., NN17 9RS (+44) 0(1)536-402888

### Section 2. Composition/Information on Ingredients

Ingredient	%range	Sym/let	Risk Phrases
Nickel powder (Ni+NiO) average particle size 2.6 - 3.3 microns	22.2	Xn	Possible risk of irreversible effects. May cause sensitisation by skin contact.
Acrylic resin	8.1	Xn	Harmful by inhalation.
Xylene	18.2	Xn	Harmful by inhalation and in contact with skin.
Methyl ethyl ketone	32.8	Xi	Irritating to eyes and respiratory system.
Bentone clay	0.45	—	—
Organic titanium intermediate	0.15	—	—
Butane	18.1	—	—

### Section 3. Hazards Identification

Flammable contents. Avoid exposure to sparks or flames. Do not spray onto incandescent surfaces. Pressurised container - do not pierce, crush or expose to high temperatures to prevent explosion. Nickel dust will be present in the spray. Work should be carried out wearing a mask and in a well ventilated area.
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### Section 4. First Aid Measures

Inhalation:	Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped administer artificial respiration. Give nothing by mouth. Seek medical attention.
Skin Contact:	Remove contaminated clothing, wash skin with soap and water or skin cleanser.
Eye Contact:	Irrigate with water for 10 minutes holding eyelids apart. If irritation persists seek medical attention.
Ingestion:	Do NOT induce vomiting. Give milk or water. Keep at rest and obtain medical attention.

### Section 5. Fire-Fighting Measures

Suitable Extinguishing Media:	Carbon dioxide, dry powder or water fog.
Do not use:	Water jet.
Exposure Hazards:	Fire may produce smoke containing harmful products of combustion. Pressurised container: may explode in fire or exposed to high temperatures. Water fog can be used to reduce temperature of containers.
Protective Measures:	Firefighting equipment for chemical fires should be used.

**Section 6. Accidental Release Measures**

Personal precautions:	Refer to Section 8: Personal Protection.
Environmental Precautions:	Refer to Section 13: Disposal
Methods of clearing up:	Contain with sand or absorbent granules. Ensure no naked flames are in the vicinity. Do not flush into drains. Dispose of as solvent waste in accordance with Local Regulations.

**Section 7. Handling and Storage**

Handling:	Protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even when empty.
Storage:	Store in a cool, dry place away from sources of heat and ignition.

**Section 8. Exposure Controls/Personal Protection**

Engineering Measures:	Use in a well ventilated area or in a fume cupboard with suitable extraction facilities.
Personal Protection:	Eye / face protection and gloves should be worn.

**Section 9. Physical and Chemical Properties**

Appearance/Colour:	Grey liquid	Flammability:	Flammable liquid.
Odour:	Characteristic solvent	Auto Ignition temp °C:	500
Boiling Point/Range °C:	Xylene = 139, MEK = 79, Butane = 0.5	Explosive Limits (%Vol):	LEL: Xylene = 1.1, MEK = 1.8 UEL: Xylene = 7.0, MEK = 8.5
Flash Point °C:	19	Solubility/Miscibility:	Immiscible with water.
Relative Density:	1.65g / cc	Volatile Content (V.O.C.):	69.1%
Vapour Pressure:	Xylene = 7	Vapour Density (air=1):	Xylene = 3.7, MEK = 2.4
(mmHg @ 20°C)	MEK = 77.5		
Evaporation Rate:	Xylene = 75		
(n-Butyl Acetate=1)	MEK = 460		

**Section 10. Stability and Reactivity**

Stability:	Stable.
Conditions to Avoid:	Direct sunlight, naked flames, red hot surfaces, elevated temperatures.
Materials to Avoid:	Strong oxidising agents and acids.
Hazardous Decomposition Products:	CO <sub>2</sub> , CO and other harmful vapours not determined.
Hazardous Polymerisation:	Will not occur.

**Section 11. Toxicological Information**

<u>Toxic effects arising from exposure based on experimental/non experimental data</u>	
	Over exposure is irritating to the eyes. Splashes entering the eyes will cause discomfort and possible damage. Prolonged contact with the skin may have a defatting effect which may lead to skin irritation and in some cases dermatitis. Nickel powder is a possible carcinogen and could also cause skin sensitisation. Irritating to the respiratory system. Excessive concentrations may produce effects on the central nervous system including drowsiness and in extreme cases loss of consciousness may result. Ingestion may result in abdominal pain, diarrhoea, nausea, sore throat
LD <sub>50</sub> (Dermal Rat):	5000mg / kg (Xylene) 3400mg / kg (MEK)
LC <sub>50</sub> (Inhal. Rat):	658mg / m <sup>3</sup> / 4h (Total Product) >90000mg / kg (Total Product)

**Section 12. Ecological Information**

<u>Possible environmental effects and behaviour/ODP/aquatic toxicity</u>
No data available

Section 13. Disposal Considerations

Safe disposal of product, its residues and packaging materials:

Dispose of according to Local Regulations.  
See also Sections 7 & 8 for handling precautions and personal protection where applicable.

Section 14. Transport Information

Product Trade Name:	RFI / EMI Shielding Aerosol	Contains:	Xylene / Nickel
Proper Shipping Name:	Aerosols, flammable, n.o.s., containing substances in division 6.1, Packing Group III.		
I.A.T.A. Class:	2.1 / 6.1	U.N. Number:	1950
I.M.D.G. Number:	9022	Packing Group:	—
A.D.R./R.I.D. Class:	2	I.M.D.G. Class:	9
		A.D.R./R.I.D. Number:	10° (bt) 2

Section 15. Regulatory Information

**Labelling Information**

Indication of Danger: Black St. Andrew's Cross. Harmful. Flammable.  
Contains: Xylene (mixture of isomers). Nickel powder.  
Risk Phrases: Harmful by inhalation and in contact with skin. Irritating to eyes and respiratory system. Possible risk of irreversible effects. May cause sensitisation by skin contact.  
Safety Phrases: Do not breathe vapour / spray.  
Avoid contact with eyes.  
In case of contact with eyes rinse immediately with plenty of water and seek medical advice.  
Wear suitable protective clothing and gloves.  
Use only in well ventilated areas.

**Occupational Exposure Limits**

Substance	Long-term exposure limit (8 hour TWA)		Short-term exposure limit (15 min period)	
	ppm	mg/m³	ppm	mg/m³
* Xylene	100	435	150	650
MEK	200	590	300	885
Butane	600	1430	750	1780
Nickel (soluble compounds)	—	0.1	—	—

\*May be absorbed through the skin.  
Ref: HSE Guidance notes EH40 / 94

Section 16. Other Information

Recommended uses and restrictions: Use only as directed.

Publication refs: Compiled in accordance with CHIP Regulations 1993.  
HSC Approved Code of Practice, Document L37.

Section 17. Section Revision and Dates

Section:  
Change:  
Date:

Legend: N.A.=Not Applicable or Not Available.  
N.D.=Not Determined or Not Determinable.  
Est.=Estimated.

Int Creation

The above information has been compiled from that provided by our suppliers and other sources. None of the original information relating to hazards or potential hazards has been omitted, and so the absence of a particular reference merely implies either that such information has not been determined or that it is not applicable. Should amendments become necessary, these will be published in future issues and forwarded to your organisation.