

Section 7. Handling and Storage	
Handling:	Ensure vapour concentration does not exceed exposure limits. Avoid contact with skin and eyes. Do not breathe spray. Do not eat, drink or smoke when handling this material. Take precautionary measures against static discharges. Reseal containers after use.
Storage:	Keep in a cool, dry, well ventilated place away from all sources of ignition. Keep containers tightly closed.
Section 8. Exposure Controls/Personal Protection	
Engineering Measures:	If exposure limits are to be exceeded, use mechanical ventilation or respiratory protection.
Personal Protection:	Gloves and eye protection are recommended for prolonged or repeated exposure.
Section 9. Physical and Chemical Properties	
Appearance/Colour:	Clear water white liquid.
Boiling Point/Range °C:	<-25
Flash Point °C:	<0
Relative Density:	0.780
Viscosity:	2.00 poise
Vapour Pressure @ 25°C:	51 mbar (DME). 97 mbar (MEK)
Melting Point °C:	<-86.7
Auto Ignition temp °C:	>350
Explosive Limits (%Vol):	(DME) 3.4 18.0 (MEK) 1.9 10.0
Solubility/Miscibility:	Immiscible with water. Organic solvent soluble.
Volatile Content (V.O.C.):	91% approx.
Vapour Density (air=1):	<3.14 (Toluene)
Conductivity: (electrical)	10 ¹⁴ Ω / cm
Section 10. Stability and Reactivity	
Stability:	Stable.
Conditions to Avoid:	All sources of ignition.
Materials to Avoid:	Dimethyl ether may have hazardous reactions with acetylene, Cl ₂ , HCl, O ₂ , N ₂ O ₄ .
Hazardous Decomposition Products:	Will not decompose under normal conditions and at ambient temperatures.
Section 11. Toxicological Information	
<u>Toxic effects arising from exposure based on experimental/non experimental data</u>	
LD ₅₀ (Oral Rat):	500mg / kg (Toluene) 3.98mg / kg (MEK)
Section 12. Ecological Information	
<u>Possible environmental effects and behaviour/ODP/aquatic toxicity</u>	
MEK is readily biodegradable in fresh water, but has reduced degradation in salt water. Toluene will be degraded by suitably acclimatised biological sewage treatment. Slightly toxic to fish. Resin is considered as not a hazardous waste.	
Section 13. Disposal Considerations	
<u>Safe disposal of product, its residues and packaging materials:</u>	
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:	HP Acrylic Conformal Coating.
Proper Shipping Name:	Aerosols, flammable, n.o.s.
I.A.T.A. Class:	2.1
I.M.D.G. Number:	9022
A.D.R./R.I.D. Class:	2
Contains:	—
U.N. Number:	1950
Packing Group:	—
I.M.D.G. Class:	9
A.D.R./R.I.D. Number:	10 ^a (b) 2



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Materials Safety Data Sheet

Conformal Coating

Stock Number: 714-462

Section 1. Identification of the Substance/Preparation and Company

Product Name: High Performance Acrylic Conformal Coating Aerosol.
Supplier: RS Components Ltd.,
P.O.Box 99, Corby, Northants., NN17 9RS
(+44) 0(1)536-402888

Section 2. Composition/Information on Ingredients

<u>Ingredient</u>	<u>%range</u>	<u>Sym/let</u>	<u>Risk Phrases</u>
Dimethyl ether (DME)	38	—	—
Methyl ethyl ketone (MEK)	21	Xi	Irritating to eyes and respiratory system.
Toluene	32	Xn	Harmful by inhalation.
Non-hazardous constituents	5-10	—	—

Section 3. Hazards Identification

Harmful by inhalation. May be harmful by ingestion and in contact with skin. Can be irritating to skin, eyes and respiratory system. Has degreasing action on skin and prolonged skin contact may cause dermatitis. Inhalation may have narcotic effects. May cause blood disease as a result of ingestion or skin absorption.

Section 4. First Aid Measures

Inhalation: Move casualty to fresh air and keep at rest. If recovery is not rapid, seek medical attention.

Skin Contact: Remove with a proprietary resin cleanser. Hand cream is also recommended to prevent dryness. Launder contaminated clothing.

Eye Contact: Immediately flush with water for 10 minutes. If irritation occurs and persists, seek medical attention.

Ingestion: Give plenty of water to drink. If large quantities have been swallowed, seek medical attention.

Section 5. Fire-Fighting Measures

Suitable Extinguishing Media: Dry powder, foam, CO₂, water fog. Keep fire endangered containers cool with water spray.

Do not use: Water jet.

Exposure Hazards: Carbon monoxide and carbon dioxide. Product is highly flammable. Containers may burst upon heating.

Protective Measures: Breathing apparatus should be worn where large quantity of product is involved in a conflagration..

Section 6. Accidental Release Measures

Personal precautions: Refer to section 8; Personal Protection.

Environmental Precautions: Refer to Section 13; Disposal.

Methods of clearing up: Mop up with absorbent material and transfer to suitable disposal container. Remove any sources of ignition. Wear appropriate protective clothing. Avoid entry into drains or waterways.

Section 7.		Handling and Storage										
Handling:	Ensure vapour concentration does not exceed exposure limits. Avoid contact with skin and eyes. Do not breathe spray. Do not eat, drink or smoke when handling this material. Take precautionary measures against static discharges. Reseal containers after use.											
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Boiling Point/Range °C:	<-25	Explosive Limits (%Vol):	<table><tr><td></td><td><u>Lower</u></td><td><u>Upper</u></td></tr><tr><td>(DME)</td><td>3.4</td><td>18.0</td></tr><tr><td>(MEK)</td><td>1.9</td><td>10.0</td></tr></table>		<u>Lower</u>	<u>Upper</u>	(DME)	3.4	18.0	(MEK)	1.9	10.0
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Section 14.		Transport Information										
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 Environmental Precautions: Refer to Section 13; Disposal.
 Methods of clearing up: Mop up with absorbent material and transfer to suitable disposal container. Remove any sources of ignition. Wear appropriate protective clothing. Avoid entry into drains or waterways.

Section 15.

Regulatory Information

Labelling Information

Indication of Danger:

Black St. Andrew's Cross. Harmful.
Flame Symbol. Highly Flammable.

Contains:

Toluene.

Risk Phrases:

Harmful by inhalation.
Highly Flammable.

Safety Phrases:

Keep away from sources of ignition. No Smoking.
Avoid contact with eyes.
Take precautionary measures against static discharges.

Other Phrases:

Keep out of reach of children.
Do not breathe spray.
Use only in well ventilated areas.
Do not pierce or burn even when empty.
Do not spray on a naked flame or any incandescent material.

Occupational Exposure Limits

Substance	Long-term exposure limit (8 hour TWA)		Short-term exposure limit (15 min period)	
	ppm	mg/m³	ppm	mg/m³
	Methyl ethyl ketone	200	590	300
*Toluene	50	188	150	560
Dimethyl ether (sup)	1000	—	—	—

*May be absorbed through the skin.

Ref: HSE Guidance notes EH40 / 94. (sup)=supplier's data.

Section 16

Other Information

Recommended uses and restrictions:

Use only as directed.
Contains materials listed as toxic under EPA / SARA - 313 & RCRA.

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.

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.