

MATERIAL SAFETY DATA SHEET
in accordance with 91/155/Common Market

Issue Date: 7th June 2000

Revised: 8th February 2002

Signature of Chemist:

Trade Name: HUMISEAL 1A33

1. Material/Preparation and Company details

Information on Product: Polyurethane Conformal Coating

Trade Name: HumiSeal 1A33

Manufacturer:

Concoat Ltd
Alasan House, Albany Park,
Frimley Road, Camberley
Surrey, GU16 7PH

Tel: 44(0)1276) 691100

Information supplied by: Humiseal
In emergency contact: 44(0)1276) 691100

2. Composition information of elements

Chemical characteristics:

Hazardous substances:

2. Composition inf. - continued...

<u>CAS NO.</u>	<u>Identification</u>	<u>%</u>	<u>Label</u>	<u>R Clause</u>
1330-20-7	Xylene	35-44	(2-)25	10-20/21-38
100-41-4	Ethyl Benzene	2- 6	(2-)16-24/25-29	20
108-88-3	Toluene	2- 6	(2-)16-25-29-33	11-20
78-93-3	Methyl Ethyl Ketone	2- 6	(2-)9-16-25-33	11-36/37
Prop.	Oil Mod. Polyurethane	44-50	-	-
Prop.	Optical brightener	.1	-	-
Prop.	Fungicide	.1	-	-

3. Possible hazards

Hazardous indications: Flashback. Vapour produced is heavier than air and may travel to source of ignition and flashback.

Hazardous Polymerisation (choose one): () May occur (X) Will not occur.

HMIS/NFPA: Health 3 Fire 3 Reactivity 0

4. First Aid Procedures

General advice: Consult a physician immediately.

Inhalation: Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing.

Skin Contact: Wash with soap and water, remove contaminated clothing, do not use until cleaned. If persistent irritation occurs, get medical attention.

Eye Contact: Flush eyes with water for 15 minutes while holding eyelids open. Get medical attention.

Ingestion:

DO NOT INDUCE VOMITING. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Get Medical attention: Note to Physician: If more than 2ml/kg has been ingested and vomiting has not occurred, emesis should be induced with supervision. Keep head lower than hips to prevent aspiration. If symptoms such as loss of gas reflex, convulsions, or unconsciousness occur before emesis, gastric lavage using a cuffed endotracheal should be considered.

5. Measure for Fire Fighting

Suitable Extinguishing Media: Foam, Carbon Dioxide and Dry Chemical.

Unsuitable methods (for safety reasons):

Special Protective Equipment: Fight as flammable liquid fire: wear self contained breathing apparatus.

6. Measures for Unintentional Release

Precautions for Personnel: Only enter the affected area if wearing solvent resistant shoes, protective goggles and gloves.

Environmental Precautions:

Processes for cleaning/absorption:

Absorb with inert material (sand, Vermiculite, etc). Large spills may be scooped up with non-sparking tools. Remove sources of ignition. Provide ventilation/respiratory protection.

7. Handling and Storage

Handling:

Advice for safe handling contact: Ventilate work area sufficiently.

Ground to protect from static charge.

Keep container closed.

Avoid contact with eyes, skin and clothing.

Advice for protection against fire/explosion. Keep away from heat, sparks & open flames.

Storage: Store at ambient temperature. Use adequate ventilation.

8. Exposure restrictions and Personal Protective Equipment

Ingredients with workplace related limits, to be supervised:

<u>CAS No.</u>	<u>Material Identification</u>	<u>%</u>	<u>Type</u>	<u>Value</u>	<u>Unit</u>
1330-20-7	Xylene	35-44	TWA	100/441	ppm/mg per m ³
			STEL	150/662	ppm/mg per m ³
100-41-4	Ethyl Benzene	2- 6	TWA	100/441	ppm/mg per m ³
			STEL	125/552	ppm/mg per m ³
108-88-3	Toluene	2- 6	TWA	50/191	ppm/mg per m ³
			STEL	150/574	ppm/mg per m ³
78-93-3	Methyl Ethyl Ketone	2- 6	TWA	200/600	ppm/mg per m ³
			STEL	300/899	ppm/mg per m ³
Prop.	Oil Mod. Polyurethane	44-50	N/E		
Prop.	Optical brightener	.1	N/E		
Prop.	Fungicide	.1	N/E		

Additional Advice:

Personal Protection Equipment: Suitable work clothing, eye goggles, protective gloves. If spraying wear an organic vapour face mask in accordance with requirements of COSHH Regulations.

General Protection & Hygiene Measures: Avoid material contact with eyes, skin or clothing.

Respiratory Protection: Use adequate ventilation.

Hand Protection: Wear protective gloves.

Eye Protection: Wear goggles.

9. Physical and Chemical Characteristics

Form: Water liquid
Colour: Clear
Odour: Solvent

	<u>Value/Area</u>	<u>Unit</u>	<u>Method</u>
Change of State:			
Freezing Point:			
Boiling Point:	137	°C	
Flash Point:	-1	°C	

Auto/Ignition Temperature: 370°C

Explosion Danger:

Explosion Limits:

Lower: 1.0
Upper: 7.0

Vapour Pressure: 19.4 mm Hg
Vapour Density: 3.6 (AIR=1)
Specific Gravity: .95 (H2O = 1)
Percentage Volatile by Volume: 45-55 %
Solubility in Water: Negligible, less than 0.1 percent.
pH Value:

Viscosity: 220 max centipoise Meth 4287 Fed Std 141

10. Stability and Reactivity

Stability: (choose one): () unstable (X) Stable

Conditions to avoid:

Materials to avoid: Contact with strong oxidising agents

Dangerous decomposition products: Carbon monoxide, carbon dioxide.

11. Toxicity information

Eyes: Liquid is minimally irritating to the eyes. High vapour concentration may be irritating.

Skin: Contact with liquid is mildly irritating. Prolonged or repeated contact can result in defatting and drying of the skin, resulting in dermatitis.

Inhalation: Vapours may be irritating to the nose, throat and respiratory tract. High vapour concentration

Consumption: The toxicity of the material is moderate. May produce CNS depression, may result in vomiting. Aspiration of vomitus must be avoided as even small quantities may result in Aspiration Pneumonitis.

12. Environment: VOC: 530 grammes per litre.

13. Advice for Waste Management

Product:

Recommendations: The waste management of Humiseal products requires strict compliance with local and National regulations.

Waste Key Number:

Used packaging: See above

14. Transport Information

Shipping Name: Paint, flammable liquid

Class: 3

UN Number: 1263

PACKING GROUP: II

ADR: 5B

15. Regulations:

**Labelling according to Common Market Guidelines:
Characterisation letter and danger labelling of
product;**



Flammable Hazardous

Established dangerous components for labelling;

- R-Clause:** 11: Highly flammable
20: Harmful by inhalation
20/21: Harmful by inhalation and in contact with skin
36/37: Irritating to eyes and respiratory system
38: Irritating to the skin
- S-Clause:** 2: Keep out of reach of children
9: Keep container in a well ventilated place
16: Keep away from sources of ignition - No smoking
24/25: Avoid contact with skin and eyes
25: Avoid contact eyes
29: Do not empty into drains
33: Take precautionary measures against static discharges

Special labelling of certain mixes:

National regulations:

Technical Guidance for Air:

Water Danger Class:

16. Other information

MSDS produced by: Concoat Ltd, Albany Park, Camberley, Surrey, GU16 7PH

References: P Kinner

Contact: <http://www.concoat.co.uk>
<mailto:sales@concoat.co.uk>

The information provided relates only to the product or material specified and does not apply if used in combination with other materials. The data sheet gives information to the best of Concoat's knowledge and awareness as of its issue date. However, no representation, warranty or guarantee is made as to its accuracy, reliability or completeness. It is the users responsibility to be satisfied that the information provided is suitable and complete enough for this materials particular use. This product is not properly labelled for sale or use in the State of California.