

MATERIAL SAFETY DATA SHEET

SCC3 CONFORMAL COATING

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

PRODUCT NAME	SCC3 CONFORMAL COATING
PRODUCT NO.	DCA200H [EDCA200H]
APPLICATION	Conformal coating for appliance protection
SUPPLIER	H K WENTWORTH PTY LIMITED P.O. BOX 339 BROOKVALE, NSW 2100 AUSTRALIA TEL: 02 9938 1566 FAX: 02 9938 1467 GENERAL MANAGER
EMERGENCY TELEPHONE	Tel: 029938 1566 between 8.30am and 5.00pm EST
PROPER SHIPPING NAME	AEROSOLS (CYCLOHEXANE)

2 HAZARDS IDENTIFICATION

RISK PHRASES

R12	Extremely flammable.
R38	Irritating to skin.
R20/21	Harmful by inhalation and in contact with skin.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

A1	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
A2	Do not spray on a naked flame or any incandescent material.
S2	Keep out of the reach of children.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapour/spray.
S24	Avoid contact with skin.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S36/37	Wear suitable protective clothing and gloves.

HAZARD ID 2

The above phrases are the risks associated with the product

PHYSICAL AND CHEMICAL HAZARDS

Aerosol containers can explode when heated, due to excessive pressure build-up. When sprayed on a naked flame or any incandescent material the aerosol vapours can be ignited.

STATEMENT OF HAZARDOUS NATURE

HAZARDOUS SUBSTANCE (According to criteria of NOHSC). DANGEROUS GOODS (According to ADG Code).

DG CLASS

Class 2: Gases

PACKING GROUP N/A

UN NO. 1950

3 COMPOSITION/INFORMATION ON INGREDIENTS

SCC3 CONFORMAL COATING

Name	EC No.	CAS-No.	Content	Classification (NOHSC: 2011)
DIMETHYL ETHER	204-065-8	115-10-6	30-60%	F+;R12
XYLENE	215-535-7	1330-20-7	10-30%	R10 Xn;R20/21 Xi;R38
CYCLOHEXANE	203-806-2	110-82-7	10-30%	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
1-METHOXY-2-PROPANOL	203-539-1	107-98-2	5-10%	R10 R67
ETHYLBENZENE	202-849-4	100-41-4	1-5%	F;R11 Xn;R20
HEXANE MIXTURE OF ISOMERS (MAX 5% n-HEXANE (203-777-6))	-	-	1-5%	F;R11 Xn;R65 Xi;R38 R67 N;R51/53
HEPTANE	205-563-8	142-82-5	1-5%	F;R11 Xn;R65 Xi;R38 R67 N;R50/53
HEXANE-norm	203-777-6	110-54-3	<0.5%	F;R11 Repr. Cat. 3;R62 Xn;R48/20,R65 Xi;R38 R67 N;R51/53
BENZENE, C10-13-ALKYL DERIVATIVES	267-051-0	67774-74-7	<0.5%	N;R50.

The Full Text for all R-Phrases are Displayed in Section 16

COMPOSITION COMMENTS

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels Ingredients are registered on AICS

4 FIRST-AID MEASURES

NOTES TO THE PHYSICIAN

Treat symptomatically

INHALATION

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

INGESTION

Rinse mouth thoroughly. Provide rest, warmth and fresh air.

SKIN CONTACT

Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. Use tepid water for rinsing

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Powder. Dry chemicals, sand, dolomite etc. Water spray, fog or mist.

SPECIAL FIRE FIGHTING PROCEDURES

Containers close to fire should be removed or cooled with water. Use water to keep fire exposed containers cool and disperse vapours.

UNUSUAL FIRE & EXPLOSION HAZARDS

Aerosol cans may explode in a fire.

6 ACCIDENTAL RELEASE MEASURES

SPILL CLEAN UP METHODS

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb in vermiculite, dry sand or earth and place into containers.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

SCC3 CONFORMAL COATING

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
		ppm	mg/m3	ppm	mg/m3	
1-METHOXY-2-PROPANOL	ES-TWA	100 ppm	369 mg/m3	150 ppm	553 mg/m3	
CYCLOHEXANE		300 ppm	1030 mg/m3			
DIMETHYL ETHER	ES-TWA				mg/m3	
HEPTANE		400 ppm	1640 mg/m3	500 ppm	2050 mg/m3	
XYLENE	ES-TWA	80 ppm	350 mg/m3	150 ppm	655 mg/m3	

PROTECTIVE EQUIPMENT



ENGINEERING MEASURES

All handling to take place in well-ventilated area.

RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Use eye protection.

OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Aerosol Liquid		
COLOUR	Colourless		
ODOUR	Solvent.		
VOLATILITY DESCRIPTION	Volatile.		
SOLUBILITY	Insoluble in water		
BOILING POINT (°C)	137 - 143 (278.6 - 289.4 F)	MELTING POINT (°C)	-24 (-11.2 F)
RELATIVE DENSITY	0.780	FLASH POINT (°C)	25 (77 F) OC (Open cup).
AUTO IGNITION TEMPERATURE (°C)	480	FLAMMABILITY LIMIT - LOWER(%)	1.1
FLAMMABILITY LIMIT - UPPER(%)	7		

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions.

CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition. Avoid contact with: Strong oxidising agents. Strong alkalis. Strong mineral acids.

HAZARDOUS DECOMPOSITION PRODUCTS

Fire creates: Vapours/gases/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2).

11 TOXICOLOGICAL INFORMATION

SCC3 CONFORMAL COATING

TOXICOLOGICAL INFORMATION

No information available.

INHALATION

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. Vapours may cause headache, fatigue, dizziness and nausea. Prolonged inhalation of high concentrations may damage respiratory system.

SKIN CONTACT

Harmful in contact with skin. Irritating to skin. May cause allergic contact eczema. Product has a defatting effect on skin. Prolonged contact may cause dryness of the skin.

EYE CONTACT

Irritating to eyes.

OTHER HEALTH EFFECTS

This substance has no evidence of carcinogenic properties.

ROUTE OF ENTRY

Inhalation:

Name	HEPTANE
Toxic Dose 1 - LD 50	222 mg/kg (ivn-mouse)
Toxic Conc. - LC 50	103 ppm/4h (inh-rat)
Name	CYCLOHEXANE
Toxic Dose 1 - LD 50	12705 mg/kg (oral rat)
Toxic Dose 2 - LD 50	813 mg/kg (oral-mouse)
Name	XYLENE
Toxic Dose 1 - LD 50	4300 mg/kg (oral rat)
Toxic Dose 2 - LD 50	2000 mg/kg (oral-rbt)
Toxic Conc. - LC 50	22.1 mg/l/4h (inh-rat)
Name	HEXANE-norm
Toxic Dose 1 - LD 50	28700 mg/kg (oral rat)
Toxic Conc. - LC 50	48000 ppm/4h (inh-rat)
Name	1-METHOXY-2-PROPANOL
Toxic Dose 1 - LD 50	5200 mg/kg (oral rat)
Toxic Dose 2 - LD 50	11700 mg/kg (oral-mouse)

12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

Name	HEPTANE
LC 50, 96 Hrs, FISH mg/l	4.924
Name	CYCLOHEXANE
LC 50, 96 Hrs, FISH mg/l	42.3
Name	XYLENE
LC 50, 96 Hrs, FISH mg/l	2.6-8.4
EC 50, 48 Hrs, DAPHNIA, mg/l	1.0-4.7
Name	1-METHOXY-2-PROPANOL
LC 50, 96 Hrs, FISH mg/l	20800
EC 50, 48 Hrs, DAPHNIA, mg/l	23300

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Empty containers must not be burned because of explosion hazard. Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

SCC3 CONFORMAL COATING



PROPER SHIPPING NAME	AEROSOLS (CYCLOHEXANE)		
UDF Phrase 1	Class 2.1: Flammable gases		
Class 2.1: Flammable gases			
UN NO.	1950	ADG CLASS NO.	2
DG CLASS	Class 2: Gases	PACKING GROUP	N/A
TUNNEL RESTRICTION CODE	(D)	ADG LABEL NO.	2.1
UN NO. SEA	1950	IMDG CLASS	2.1
IMDG PACK GR.	N/A	EMS	F-D, S-U
MFAG	See Guide	UN NO. AIR	1950
AIR CLASS	2.1	AIR PACK GR.	N/A

15 REGULATORY INFORMATION

LABELLING



Harmful



Extremely Flammable



Dangerous for the environment

CONTAINS XYLENE

RISK PHRASES

R12	Extremely flammable.
R38	Irritating to skin.
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R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SAFETY PHRASES

A1	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.
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S2	Keep out of the reach of children.
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S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S36/37	Wear suitable protective clothing and gloves.

POISONS SCHEDULE NUMBER NONE

NATIONAL REGULATIONS AND REFERENCES

- National Model Regulations for the Control of Workplace Hazardous Substances.
- National Code of Practice for the Control of Workplace Hazardous Substances.
- National Code of Practice for the Labelling of Workplace Substances.
- National Code of Practice for the Preparation of Material Safety Data Sheets.
- Approved Criteria for Classifying Hazardous Substances.
- Exposure Standards for Atmospheric Contaminants in the Occupational Environment.
- Australian Dangerous Goods Code. The Standard for the Uniform Scheduling of Drugs and Poisons (SUSDP).

16 OTHER INFORMATION

ISSUED BY

Helen O'Reilly

SCC3 CONFORMAL COATING

REVISION DATE NOVEMBER 2010
**REV. NO./REPL. SDS
GENERATED** 5
SDS NO. 11409

RISK PHRASES IN FULL

R12 Extremely flammable.
R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R20 Harmful by inhalation.
R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R65 Harmful: may cause lung damage if swallowed.
R11 Highly flammable.
R38 Irritating to skin.
R62 Possible risk of impaired fertility.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67 Vapours may cause drowsiness and dizziness.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R50 Very toxic to aquatic organisms.

DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.