

SAFETY DATA SHEET LEAD FREE CONFORMAL COATING

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

PRODUCT NAMELEAD FREE CONFORMAL COATING

PRODUCT NO. ELFCC400D

APPLICATION Manufacture of electrical equipment

SUPPLIER ELECTROLUBE. A division of

HK WENTWORTH LTD KINGSBURY PARK, MIDLAND

ROAD

SWADLINCOTE

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2 HAZARDS IDENTIFICATION

Extremely flammable.

Harmful by inhalation and in contact with skin.

Irritating to skin.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CLASSIFICATION Xn;R20/21. Xi;R38. F+;R12. N;R51/53.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EC No. | CAS-No. | Content | Classification |
|---------------------------------------------------------|-----------|------------|---------|----------------------------------|
| 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 |
| 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 |
| 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

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.

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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.

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

| Name | Std | TWA - 8 hrs | | STEL - 15 min | | Notes |
|----------------------|-----|----------------|------------------|----------------|------------------|-------|
| 1-METHOXY-2-PROPANOL | WEL | 100 ppm(Sk) | 375 mg/m3(Sk) | 150 ppm(Sk) | 560 mg/m3(Sk) | |
| CYCLOHEXANE | WEL | 100 ppm | 350 mg/m3 | 300 ppm | 1050 mg/m3 | |
| DIMETHYL ETHER | WEL | 400 ppm | 766 mg/m3 | 500 ppm | 958 mg/m3 | |
| HEPTANE | WEL | 500 ppm | | | | |
| XYLENE | WEL | 50 ppm(Sk) | 220 mg/m3(Sk) | 100 ppm(Sk) | 441 mg/m3(Sk) | |

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

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 Workplace 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.

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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 **MELTING POINT (°C)** -24

RELATIVE DENSITY 0.780 FLASH POINT (°C) 25 OC (Open cup).

AUTO IGNITION 480 FLAMMABILITY LIMIT - LOWER(%) 1,1

TEMPERATURE (°C)

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

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)

 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)

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12 ECOLOGICAL INFORMATION

ECOTOXICITY

Dangerous for the environment if discharged into watercourses.

 Name
 HEPTANE

 LC 50, 96 Hrs, FISH mg/l
 4.924

 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



UK ROAD CLASS 2

PROPER SHIPPING NAME AEROSOLS

 UN NO. ROAD
 1950
 UK ROAD PACK GR.
 N/A

ADR CLASS NO. 2 ADR CLASS Class 2: Gases

ADR PACK GROUP ADR LABEL NO. N/A 2.1 CEFIC TEC(R) NO. 20G5F RID CLASS NO. 2 RID PACK GROUP N/A UN NO. SEA 1950 IMDG CLASS IMDG PACK GR. 2.1 N/A EMS MEAG F-D, S-U See Guide MARINE POLLUTANT UN NO. AIR No. 1950 AIR CLASS AIR PACK GR. 2.1 N/A

15 REGULATORY INFORMATION

SYMBOLS



Harmful



Extremely Flammable



Dangerous for the environment

CONTAINS XYLENE

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 Pressurised 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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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.

UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

The Control of Substances Hazardous to Health Regulations 1988.

ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980. Control of Pollution Act 1974.

EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

GUIDANCE NOTES

Workplace Exposure Limits EH40.

16 OTHER INFORMATION

REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

ISSUED BY

Helen O'Reilly

REVISION DATE NOVEMBER 2008

REV. NO./REPL. SDS

GENERATED

SDS NO. 11999

RISK PHRASES IN FULL

R10 Flammable.
R11 Highly flammable.
R12 Extremely flammable.

R20/21 Harmful by inhalation and in contact with skin.

R38 Irritating to skin.

R50 Very toxic to aquatic organisms.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.
R67 Vapours may cause drowsiness and dizziness.

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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.