

MATERIAL SAFETY DATA SHEETOUR REFERENCE: **CPH 6**

REVISION 2

12 JUNE 2003

1 – IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

PRODUCT NAME: HARDENER CPH 6
 INTENDED USE: Two pack epoxy resin adhesive

UK STOCKIST AND DISTRIBUTOR

Campbell Coutts Ltd
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 Eastleigh
 Hampshire
 SO50 6NZ

MANUFACTURER

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2 – COMPOSITION/INFORMATION ON INGREDIENTS *CHEMICAL NATURE:

Polyamide resin containing inert filler.

CAS No: Preparation

EINECS No: Polymer exempt

INGREDIENTS CONTRIBUTING TO HAZARDS:

%	Substance	CAS No	EINECS No	Symbol	R phrases
1-5	Benzyl alcohol	100-51-6	202-859-9	Xn	20/22
5-9	Triethylene tetramine	112-24-3	203-950-6	C, N	21-34-43-52/53
4-7	Aromatic hydrocarbon	64742-94-5	265-198-5	Xn, N	10-37-51/53-65

3 – HAZARDS IDENTIFICATIONHealth Hazard

Irritating to eyes and skin. May cause sensitisation by skin contact.

Environmental Hazard

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

Physical & Chemical Hazards

-

Fire & Explosion Hazard

-

3 – HAZARD IDENTIFICATION (Continued)

Other Hazard

Avoid formation of aerosol. Contains a component that is harmful by inhalation, contact with skin and ingestion.

4 – FIRST AID MEASURES

General

Immediately remove contaminated clothing, wear protective gloves (see section 8), take care not to contaminate unaffected areas.

Eye Contact

Rinse immediately with water for at least 15 minutes holding the eyelid open; get medical attention immediately.

Skin Contact

Wash affected area with water for at least 15 minutes. If irritation persists obtain medical advice. Contaminated clothing must be laundered before re-use. Discard contaminated leatherwear.

Inhalation

Move affected person to fresh air. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or shows signs of failing, give artificial respiration. In case of irritation to the respiratory system or mucous membranes, or if you feel unwell or in case of prolonged exposure, get medical attention.

Ingestion

Immediately rinse the mouth with water. DO NOT INDUCE VOMITING. Keep warm and at rest. If swallowing has occurred drink water in small sips. Obtain medical attention immediately, show this safety data sheet.

5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water mist; Carbon Dioxide; Foam; Dry Powder.

Unsuitable Extinguishing Media

DO NOT use high pressure water jet.

Exposure Hazards

Thermal decomposition or burning may release oxides of carbon and other toxic gases or vapours. Keep cool by spraying with water. Do not release chemically contaminated water into drains, soil or surface water. Sufficient measures must be taken to retain water used for extinguishing. Dispose of contaminated water and soil according to local regulation.

Protective Equipment

Use full protective clothing and self-contained breathing apparatus.

6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions

Shut off all ignition sources. Avoid contact with skin, eyes and clothing. Wear suitable protective clothing (including respiratory protection).

Environmental Precautions

Prevent contamination of soil, drains and surface waters by use of temporary bund.

6 – ACCIDENTAL RELEASE MEASURES (cont)Methods for Cleaning

Large Spillage: Keep public away. Advise police if preparation has entered a watercourse or sewer. Scrape up with shovels and place in suitable containers for recycle or disposal. Soak up remainder with absorbent, inert material.

Small Spillage: Take up with absorbent, inert material and place in suitable and closed container for disposal.

7 - HANDLING AND STORAGEHandling

Handle and open containers with care. Do NOT pressurise containers. Avoid contact with skin, eyes and clothing. Avoid inhaling vapour, ensure good ventilation and use local exhaust. Emergency shower and eye wash facilities should be readily available. Do not eat, drink or smoke at the workplace. If you feel unwell, seek medical advice (show label where possible).

Storage

Keep away from food and drink and animal feed-stuffs. Store in the original container securely closed in a cool, dry and well ventilated area.

Protect from : Acids

Storage temperature °C : Ambient

Suitable storage materials : Mild/stainless steel/Polyethylene lined containers.

8 – EXPOSURE CONTROL/PERSONAL PROTECTION

UK Occupational Exposure standard (UK EH40)

None established	8h TWA	15 min STEL
	8h TWA	15 min STEL
	8h TWA	15 min STEL

Technical Protective Measures

Local Exhaust ventilation.

Respiratory Protection

Chemical cartridge if there is a risk of breathing mists, vapours or aerosols.

Cartridge: ABEK (1P) check with PPE manufacturer.

Eye Protection

Tightly fitting safety goggles, face shield.

Hand Protection

Gloves: PVC/Nitrile rubber gloves.

Replace immediately if signs of degradation are observed.

Check with PPE manufacturer.

Environment ProtectionSkin Protection

Wear overalls and safety shoes.

9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid paste
Colour	Yellow
Odour	Ammoniacal
PH Value	11
Relative Density	1.30
Viscosity	55 poise @ 25°C
Boiling point/range	>150°C
Vapour Pressure	Not Available
Flashpoint	>61°C
Vapour Density	Not Available
Flammability	Not Available
Evaporation Rate	Not Available
Explosive Properties	Not Available
Solubility in Water	Insoluble
Oxidising properties	Not Available
Solubility in Fat	Not Available
Partition Coeff	Not Available
Miscibility	Xylene
Autoflammability	Not Available
Conductivity	Not Available
Melting point/range	Minus 5°C

10 – STABILITY AND REACTIVITY

Stability:	Stable under normal conditions. Reacts violently with: acids, oxidising agents.
Hazardous Polymerisation:	No.
Conditions to Avoid:	Do not leave containers open.
Materials to Avoid:	Oxidising agents, epoxy resins (Exothermic)
Hazardous Decomposition Products:	Thermal decomposition or burning may release oxides of carbon.

11 – TOXICOLOGICAL INFORMATION

Acute toxicity Contains components that are hazardous by the following routes: skin, eye and inhalation.

LD ₅₀ ORAL TOXICITY RATS	1230mg/kg	Benzyl alcohol
LD ₅₀ DERMAL TOXICITY	-	
LC ₅₀ INHL TOXICITY IN RATS	3160mg/kg	Benzyl alcohol
LD ₅₀ ORAL TOXICITY RATS	2830mg/kg	Tri ethylene tetramine
LD ₅₀ DERMAL TOXICITY	561mg/kg	Tri ethylene tetramine
LC ₅₀ INHL TOXICITY IN RATS	-	

Corrosivity/Irritation

EYES	Irritates, pain, redness
SKIN	Irritating. Possible dermatitis must be considered.
INHALATION	May irritate respiratory tract.

Sensitisation

SKIN	May cause sensitisation.
INHALATION	Materials of this type are known to cause respiratory allergy in people.

11 – TOXICOLOGICAL INFORMATION (Continued)

<u>Repeat Dose Toxicity</u>	-
<u>Carcinogenicity</u>	-
<u>Mutagenicity</u>	-
<u>Reproductive Toxicity</u>	-
<u>Additional Information</u>	Contains one or more amines which may react with nitrates to form nitrosamines, some of which have been shown to be carcinogenic in laboratory animals.

12 – ECOLOGICAL INFORMATIONPrevent Contamination of Soil, Drains or Surface Water.

<u>Mobility</u> product enters soil, it	Sinks in water. Insolubility restricts mobility. If may contaminate groundwater.
<u>Degradability</u>	Not readily bio-degradable.
Bioconcentration factor	Has the potential to bioaccumulate.
Biological oxygen demand (BOD)	Not available.
Chemical oxygen demand (COD)	Not available.

Ecotoxicity

LC ₅₀ Fish (96 hr)	400 mg/l	Benzyl alcohol
EC ₅₀ Daphnia (48 hr)	10-460 mg/l	Benzyl alcohol
IC ₅₀ Algae (4 hr)	2600 mg/l	Benzyl alcohol
EC ₅₀ Bacteria (16 hr)	658 mg/l	Benzyl alcohol
LC ₅₀ Fish (96 hr)	330 mg/l	Tri ethylene tetramine
EC ₅₀ Daphnia (48 hr)	40 mg/l	Tri ethylene tetramine
IC ₅₀ Algae (72 hr)	-	-
EC ₅₀ Bacteria (16 hr)	680 mg/l	Tri ethylene tetramine

The product may be harmful to aquatic organisms

13 – DISPOSAL CONSIDERATION

The UK Environmental Protection (Duty of Care) regulations (EP) and amendments should be noted (United Kingdom).

Product disposal

The preparation must be disposed of by special means. Dispose by incineration or landfill via a licensed waste disposal contractor in accordance with local and national regulations.

Container disposal

Contaminated packaging should be emptied as far as possible. They can then be recycled after being thoroughly cleaned by a licensed contractor. Labels must not be removed from containers until they have been cleaned. Packaging materials that are not contaminated should be treated as household waste or as recycling material.

14 – TRANSPORT INFORMATIONLAND (Railway/Road, such as RID/ADR)

Class: UN:
 Item No: Transport Card:
 Hazard No: Packaging Group
 PSN: NOT REGULATED FOR TRANSPORT.

SEA (IMDG)

Class: UN:
 EMS No: Marine Pollutant:
 MFAG: Packaging Group
 IMDG Code Page:
 PSN: NOT REGULATED FOR TRANSPORT.

AIR (IATA, ICAO)

Class: UN:
 Packaging Group: III
 PSN: NOT REGULATED FOR TRANSPORT.

This product is subject to the Carriage of Dangerous Goods by Road and the Carriage of Dangerous Goods by Rail Regulations. The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and Use of Transportable Pressure Receptacles Regulations and their amendments (United Kingdom).

15 – REGULATORY INFORMATION *

Classification and Labelling according to EEC directives.

<u>Health</u>	<u>Physio-chemical</u>	<u>Environment</u>
Xi Irritant	Not classified	Not classified

CONTAINS Tri-ethylene tetramine, aromatic hydrocarbon.

R 36/38 Irritating to skin and eyes.
 R 43 May cause sensitisation by skin contact.
 R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 S 61 Avoid release to the environment. Refer to special instructions/MSDS.

SPECIAL LABEL

UK Legislation (as Amended):
 COSHH Essentials. Management of Health & Safety at Work Regulations 1992. Chemicals (Hazardous Information and Packaging) Regulations 1999.

16 – OTHER INFORMATION

Further Guidance

EH 40 Occupational exposure Limits (Revised annually).
HS (G)65 Successful Health and Safety Management, HSE
HS (G)97 A step by step Guide to COSHH Regulations, HSE
General Approved Code of Practice to COSHH regulations, HSE.

* Sections revised since previous version: 2, 11, 12, 15, 16

OTHER RISK PHRASES LISTED IN THIS MSDS:

R 10	Flammable
R 20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R 34	Causes burns
R 51/53	Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment.
R 65	Harmful, may cause lung damage if swallowed.

All information is based on results gained from experience and test and is believed to be accurate but is given without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing or construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to Our General Conditions of Sale.