Material Safety Data Sheet

Copon Hycote 169HB Base

Date of issue **18/05/2007.** **CP354B**

1. Identification of the substance/preparation and company/undertaking

Product no.	CP354B
Product name	Copon Hycote 169HB Base
Manufacturer	Copon Division of E. Wood Limited Standard Way, Northallerton, North Yorkshire, DL6 2XA, England Tel. +44 (0)1609 780170 Fax. +44 (0)1609 788718 email: copon@ewood.co.uk
Product use	Paint. Coating.

2. Composition/information on ingredients

Substance/preparation

Component	CAS number	% by weight	EC number	Classification
ALIPHATIC POLYISOCYANATE	028182-81-2	90 - 100		R43, R52/53
BISPHENOL A - EPOXY RESIN (Mn <=700)	025068-38-6	1 - 5	500-033-5	Xi; R36/38, R43, N; R51/53
HEXAMETHYLENE-DI-ISOCYANATE	000822-06-0	<0.5	212-485-8	T; R23, Xi; R36/37/38, R42/43

See section 16 for the full text of the R-phrases declared above

Occupational exposure limits, if available, are listed in section 8.

3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification	R43, R52/53
Human health hazards	May cause sensitisation by skin contact.
Environmental hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See section 11 for more detailed information on health effects and symptoms.

4. First-aid measures

First-aid measures

Inhalation	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.
Ingestion	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If potentially dangerous quantities of this material have been swallowed, call a physician immediately.
Skin contact	Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse. Get medical attention if irritation occurs.
Eye contact	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media	In case of fire, use water spray (fog), foam, dry chemical or CO_2. Do not use water jet.
Special exposure hazards	No specific hazard.
Hazardous thermal decomposition products	In a fire, the following may be released: carbon oxides (CO, CO_2) nitrogen oxides (NO, NO_2 etc.) Hydrogen cyanide (HCN).
Protection of fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

Personal precautions	Immediately contact emergency personnel. Use suitable protective equipment (section 8).
Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Methods for cleaning up	If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

7. Handling and storage

Handling Avoid contact with skin and clothing. Wash thoroughly after handling.

Storage Keep container tightly closed. Store in original sealed containers at temperatures between 0° and 40°C. Short term exposure to temperatures below 0° is not deleterious to product quality.

8. Exposure controls/personal protection

Ingredient name	Occupational exposure limits
HEXAMETHYLENE-DI-ISOCYANATE	**EH40-WEL (United Kingdom (UK), 2005). Inhalation sensitiser** TWA: 0.02 mg/m³ 8 hour(s).

Recommended monitoring procedures Not available.

Exposure controls

Occupational exposure controls Adequate ventilation should be provided if there is risk of aerosol formation.

Respiratory protection Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
4-8 hour(s) (breakthrough time): butyl rubber , nitrile rubber , natural rubber (latex) or PVC gloves.

Eye protection Safety glasses. Chemical splash goggles. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection Protective clothing. Repeated or prolonged contact with irritants may cause dermatitis.

9. Physical and chemical properties

Appearance	Liquid. (Viscous liquid. White.)	**Odour**	Faint odour.
pH	Not available.	**Boiling point**	>170°C (>338°F)
Flash point	Closed cup: >180°C (>356°F)	**Flammability**	Non-flammable.
Explosion limits	Not available.	**Oxidising properties**	Not available.
Vapour pressure	Not available.	**Relative density**	Not to be used :
Solubility	Insoluble in the following materials: cold water.	**Vapour density**	Not available.
Evaporation rate (butyl acetate = 1)	Not available.	**Octanol/water partition coefficient**	Not available.
Auto-ignition temperature	>400°C (>752°F)	**Melting point**	>0°C (>32°F)

10.Stability and reactivity

Stability The product is stable.

Conditions to avoid Water reactive.

Materials to avoid alcohols Amines May react in the presence of moisture.

Hazardous decomposition products In a fire, the following may be released: carbon oxides (CO, CO_2) nitrogen oxides (NO, NO_2 etc.) Hydrogen cyanide (HCN).

11.Toxicological information

Potential acute health effects

Inhalation No known significant effects or critical hazards.

Ingestion No known significant effects or critical hazards.

Skin contact May cause sensitisation by skin contact.

Eye contact No known significant effects or critical hazards.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ALIPHATIC POLYISOCYANATE	LD50 Oral	Rat	>2000 mg/kg	-
BISPHENOL A - EPOXY RESIN (Mn <=700)	LD50 Oral	Rat	>2000 mg/kg	-

Potential chronic health effects

Chronic toxicity

Carcinogenicity No carcinogenic effect.

Mutagenicity No mutagenic effect.

Reproductive toxicity No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation No specific data.
Ingestion No specific data.
Skin Adverse symptoms may include the following: irritation and redness
Eyes No specific data.
Target organs May cause damage to the following organs: upper respiratory tract, skin, eyes.
Additional information No components of this material are listed as carcinogens by OSHA, NTP, ACGIH or IARC.

12.Ecological information

Environmental effects Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Not readily biodegradable.

Aquatic ecotoxicity
Conclusion/Summary Not available.

Other ecological information

Biodegradability
Conclusion/Summary Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Copon Hycote 169HB Base	-	-	Not readily

Mobility Do not allow to enter drains or watercourses.
Other adverse effects No known significant effects or critical hazards.

13.Disposal considerations

Methods of disposal The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Hazardous waste The classification of the product may meet the criteria for a hazardous waste.

14.Transport information

International transport regulations

Additional information This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

15.Regulatory information

EU regulations

Hazard symbol or symbols

Irritant

Risk phrases R43- May cause sensitisation by skin contact. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Safety phrases S24- Avoid contact with skin.S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.S28- After contact with skin, wash immediately with plenty of soap and water.S29- Do not empty into drains.S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.S42- During spraying wear suitable respiratory equipment. S46- If swallowed, seek medical advice immediately and show this container or label.Contains isocyanates.Contains epoxy constituents.See information supplied by the manufacturer.
Contains ALIPHATIC POLYISOCYANATE
BISPHENOL A - EPOXY RESIN (Mn <=700) 500-033-5
Product use Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.
- Consumer applications.

Other EU regulations

EU statistical classification (Tariff Code) 2929109090

National regulations
United States

SARA 313 toxic chemical notification and release reporting HEXAMETHYLENE-DI-ISOCYANATE

Germany
Hazard class for water 1 Appendix No. 4

16.Other information

Date of issue	**18/05/2007.**
Date of previous issue	10/05/2006
Revision comments	Section 11. Toxicological information and Section 12. Ecological information .
Full text of R-phrases referred to in sections 2 and 3 - Europe	R23- Toxic by inhalation.R36/37/38- Irritating to eyes, respiratory system and skin.R36/38- Irritating to eyes and skin.R42/43- May cause sensitisation by inhalation and skin contact.R43- May cause sensitisation by skin contact.R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications referred to in sections 2 and 3 - Europe	T - Toxic Xi - Irritant N - Dangerous for the environment
Further information	Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC Canada - This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.
Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.