




1 Identification of substance:

- **Product details:**
- **Trade name:** CP 620
- **Application of the substance / the preparation** Construction chemicals
- **Manufacturer/Supplier:**
 Hilti (Gt. Britain) Ltd.
 1 Trafford Wharf Road
 Trafford Park
 GB-M17 1BY Manchester M17 1 BY
 Tel: +44 161 886 1000 / 0800 886 100 Toll-free
 Fax +44 161 872 1240 / 0800 886 200 Toll-free
- **Informing department:** see section 16
- **Emergency information:**
 Tel. 0044 161/886 1000
 Fax. 0044 161 / 872 1240
 Schweizerisches Toxikologisches Informationszentrum - 24 h Service
 Tel.: 0041 / 1 251 51 51 (international)

2 Composition/Data on components:

- **Chemical characterization**
- **Description:** Mixture consisting of the following components.

- **Dangerous components:**

CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues	 Xn; R 20-36/37/38-42/43	25-50%
CAS: 13674-84-5 EINECS: 237-158-7	Tris(1-chloro-2-propyl)phosphate	 Xn; R 22	2.5-10%
CAS: 3033-62-3 EINECS: 221-220-5	N,N,N',N'-tetramethyl-2,2'-oxybis(ethylamine)	 T; R 22-23/24	<0.5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

3 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment**

R 20 Harmful by inhalation.
 R 36/37/38 Irritating to eyes, respiratory system and skin.
 R 42/43 May cause sensitisation by inhalation and skin contact.
 Contains isocyanates. See information supplied by the manufacturer

- **Classification system**

The classification is in line with current EC lists. It has been expanded, however, by information from technical literature, by information furnished by suppliers and by national regulations which have to be observed in chapter 15.

4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air and call for doctor for safety reasons.
- **After skin contact**
 Treat affected skin portions with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Do not induce vomiting; instantly call for medical help.
- **Information for doctor** No particular measures are known - treat according to symptoms.
- **The following symptoms may occur:** Allergic reactions

5 Fire fighting measures

- **Suitable extinguishing agents** CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
 Formation of toxic gases is possible during heating or in case of fire.
 Can be released in case of fire
 Carbon monoxide (CO)
 Hydrogen cyanide (HCN)
 Hydrogen chloride (HCl)
- **Protective equipment:** Wear self-contained breathing apparatus.

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· **Additional information** Cool endangered containers with water spray jet.

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6 Accidental release measures

- **Person-related safety precautions:**
 - Wear protective clothing.
 - Ensure adequate ventilation
- **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:**
 - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
 - Dispose of contaminated material as waste according to item 13.

7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Keep containers tightly sealed.
 - Ensure good ventilation/exhaustion at the workplace.
- **Storage**
- **Requirements to be met by storerooms and containers:** Keep containers securely closed and dry, store at 5 - 25°C.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class** As per VCI (1991) storage classification concept.

8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

· Components with limit values that require monitoring at the workplace:

9016-87-9 diphenylmethanediisocyanate, isomers and homologues (25-50%)

MEL	Short-term value: 0.07 mg/m ³
	Long-term value: 0.02 mg/m ³
	Sen; as -NCO

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - The usual precautionary measures should be adhered to general rules for handling chemicals.
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
 - Do not eat, drink or smoke while working.
- **Breathing equipment:** Not necessary if room is well-ventilated.
- **Protection of hands:** Protective gloves.
- **Material of gloves**
 - The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
- **Penetration time of glove material**
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing.

9 Physical and chemical properties:

· General Information

Form:	Fluid
Colour:	Red
Odour:	Characteristic

· Change in condition

Melting point/Melting range:	Not determined
Boiling point/Boiling range:	Not determined

· **Flash point:** Not applicable

· **Ignition temperature:** 400°C

· **Self-inflammability:** Product is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Density** Component A: 1,1 g/cm³
Component B: 1,23 g/cm³

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- **Solubility in / Miscibility with Water:** Not miscible or difficult to mix

10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Dangerous reactions**
With water (moisture): CO₂ is produced; pressure may build up inside closed containers (danger of bursting)
Reacts with alcohols, amines, aqueous acids and alkalis
- **Dangerous products of decomposition:** none, if stored and handled correctly.

11 Toxicological information

- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

9016-87-9 diphenylmethanediisocyanate, isomers and homologues

Oral	LD50	>5000 mg/kg (ratte)
Inhalative	LC50/4 h	0.49 mg/l (ratte)

13674-84-5 Tris(1-chloro-2-propyl)phosphate

Oral	LD50	3600 mg/kg (ratte)
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- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritant effect.
- **Sensitization:**
Sensitization possible by inhalation.
Sensitization possible by skin contact.
(trouble in breathing, cough, asthma)
Hypersensitive persons may react at very low concentrations of isocyanate.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:
Harmful

12 Ecological information:

- **Ecotoxicological effects:** Not determined
- **General notes:**
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation** For disposal, local regulations issued by the authorities must be observed.

· **European waste catalogue**

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 05 00	wastes not otherwise specified in 08
08 05 01	waste isocyanates

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border)**
- **ADR/RID-GGVS/E Class:** -

- **Maritime transport IMDG:**
- **IMDG Class:** -
- **Marine pollutant:** No

- **Air transport ICAO-TI and IATA-DGR:**
- **ICAO/IATA Class:** -

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· **Transport/Additional information:** Not dangerous according to the above specifications.

15 Regulatory information

· **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· **Code letter and hazard designation of product:**



Xn Harmful

· **Hazard-determining components of labelling:**

diphenylmethanediisocyanate, isomeres and homologues

· **Risk phrases:**

- 20 Harmful by inhalation.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 42/43 May cause sensitisation by inhalation and skin contact.

· **Safety phrases:**

- 2 Keep out of the reach of children.
- 23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
- 24/25 Avoid contact with skin and eyes.
- 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 51 Use only in well-ventilated areas.

· **Special designation of certain preparations:**

Contains isocyanates. See information supplied by the manufacturer

· **National regulations**

· **Technical instructions (air):**

Class	Share in %
I	25-50

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Changes made since last issue dated 21.10.2003 at the following points: *

· **Relevant R-phrases**

- 20 Harmful by inhalation.
- 22 Harmful if swallowed.
- 23/24 Toxic by inhalation and in contact with skin.
- 36/37/38 Irritating to eyes, respiratory system and skin.
- 42/43 May cause sensitisation by inhalation and skin contact.

· **Department issuing data specification sheet:**

Hilti Corp.
BU Chemicals
Quality/Safety/Environment

Hilti Entwicklungsgesellschaft mbH
Hiltistrasse 26
D-86916 Kaufering
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· **Contact:** Michael Kaindl

· *** Data compared to the previous version altered.**