SAFETY DATA SHEET

SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Product Name: Corrothane XT Hardener A

1.2 Relevant identified uses of the substance or mixture and uses advised against

- Use of the substance/mixture: Organic peroxide type D solid. Dibenzoyl peroxide powder in phthalate

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Corrocoat Limited
- Address of Supplier: Forster Streer, Leeds, West Yorkshire LS10 1PW
- Telephone: +44 (0)113 2760760
- Fax: +44 (0) 113 2760700
- Email: Info@corrocoat.com

CORROCOAT
ENGINEERING (AUST) PTY LTD

21 Sorbonne Cres, Canning Vale WA 6155
PO Box 1423 Canning Vale WA 6970
WA Tel: (08) 9472 2500 Fax: (08) 9472 2525
Australia Wide: 1300 728 887
Email: info@corrocoat.com.au
Website: www.corrocoat.com.au

1.4 Emergency telephone number

- Emergency Telephone: +44 (0)1652 641124

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

- CLP: Organic peroxide, type D, Eye Irrit. 2, Skin Sens. 1, Repr. 2, Aquatic Acute 1, Aquatic Chronic 3
- CHIP:

2.2 Label elements

GHS02 GHS08 GHS07 GHS09

- Signal Word: Danger
- Hazard statements
  H242 - Heating may cause a fire.
  H319 - Causes serious eye irritation.
  H317 - May cause an allergic skin reaction.
  H361f - Suspected of damaging fertility.
  H400 - Very toxic to aquatic life.
  H412 - Harmful to aquatic life with long lasting effects.
- Precautionary statements
  P220 - Keep/Store away from clothing/
  P233 - Keep container tightly closed.
  P235 - Keep cool.
  P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
  P262 - Do not get in eyes, on skin, or on clothing.
  P273 - Avoid release to the environment.
  P281 - Use personal protective equipment as required.
  P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
  P363 - Wash contaminated clothing before reuse.
  P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  P501 - Dispose of contents/container to an authorised waste collection point

2.3 Other hazards

- This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

SECTION 3 Composition/information on ingredients

3.1 Mixtures

- dibenzoyl peroxide; benzoyl peroxide

SECTION 3 Composition/information on ingredients (....)

CAS Number: 94-36-0
Concentration: 40 - 60%
H Statements: H241;H319;H317;H400
Categories: Org. Perox. B, Eye Irrit. 2, Skin Sens. 1, Aquatic Acute 1

- dicyclohexyl phthalate
  CAS Number: 84-61-7
  Concentration: 40 - 60%
  H Statements: H317;H361f;H412
  Categories: Skin Sens. 1, Repr. 2, Aquatic Chronic 3

SECTION 4 First aid measures

4.1 Description of first aid measures

- P362 - Take off contaminated clothing.
- If you feel unwell, seek medical advice (show the label where possible)

- Contact with eyes
  If substance has got into eyes, immediately wash out with plenty of water
  P101 - If medical advice is needed, have product container or label at hand.

- Contact with skin
  P302+P350 - IF ON SKIN: Gently wash with plenty of soap and water.

- Ingestion
  If swallowed, rinse mouth with water (only if the person is conscious)
  Give plenty of water to drink
  P331 - Do NOT induce vomiting.
  P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
  If you feel unwell, seek medical advice (show the label where possible)

- Inhalation
  P340 - Remove person to fresh air and keep comfortable for breathing.
  P315 - Get immediate medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- No data available

4.3 Indication of any immediate medical attention and special treatment needed

- No data available

SECTION 5 Fire-fighting measures

5.1 Extinguishing media

- In case of fire use water spray or fog, alcohol resistant foam, dry chemical or carbon dioxide

5.2 Special hazards arising from the substance or mixture

- Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

- Wear protective clothing as per section 8

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Wear suitable respiratory protection
- Wear protective clothing as per section 8

6.2 Environmental Precautions

- Avoid subsoil penetration. Do not allow material to contaminate ground water system. Do not contaminate water. If the product contaminates rivers and lakes or drains inform respective authorities. Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

- Absorb spillage in inert material and shovel up
- Remove contaminated material to safe location for subsequent disposal

6.4 Reference to other sections

SECTION 6 Accidental release measures (....)

- See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7 Handling and storage

7.1 Precautions for safe handling

- P233 - Keep container tightly closed.
- Use only in well ventilated areas

7.2 Conditions for safe storage, including any incompatibilities

- P233 - Keep container tightly closed.
- Keep away from sources of ignition - No Smoking

7.3 Specific end use(s)

- Restricted to professional users

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	Control parameters	Basis
dibenzoyl peroxide	94-36-0	AGW (Inhalable fraction): 5mg/m3,DFG,	DE TRGS 900

DNEL
dibenzoyl peroxide :

End Use: Professional use
Exposure routes: Inhalation
Potential health effects: Long-term systemic effects
Value: 11,75 mg/m3

Exposure routes: Skin contact
Potential health effects: Long-term systemic effects
Value: 6,6 mg/kg

PNEC
dibenzoyl peroxide :

Fresh water Value 0,602 µg/l
Marine water Value: 0,0602 µg/l

Intermittent use/release Value: 0,602 µg/l

Sewage treatment plant Value: 0,35 mg/l

Fresh water sediment Value: 0,338 mg/kg

Soil Value: 0,0758 mg/kg

dicyclohexyl phthalate :

Fresh water Value: 0,00362 mg/l

Marine sediment Value: 0,000362 mg/l

Intermittent use/release Value: 0,0362 mg/l

Sewage treatment plant Value: 10 mg/l

Fresh water sediment Value: 1,06 mg/kg

Marine sediment Value: 0,106 mg/kg

Soil Value: 0,21 mg/kg

Oral Value: 133 g/kg

8.2 Exposure controls


Boots


Gloves


Goggles


Respirator

- Wear suitable respiratory protection

SECTION 8 Exposure controls/personal protection (....)

- Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended)

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Solid
- Odour threshold aromatic
- pH: No data available
- Melting point/Range: Not available
- Freezing point/Range: Not applicable
- Boiling Point/Range: Decomposes
- Flashpoint: Not applicable
- Evaporation Rate: Not Available
- Flammability: Not applicable
- Upper flammability limit no data available%(in air)
- Lower flammability limit no data available%(in air)
- Upper explosive limit no data available % (in air)
- Lower explosive limit no data available % (in air)
- Vapour Pressure: Not Applicable
- Vapour Density: No data available
- Density: 1.23 g/cm³, Bulk density 620 – 650 kg/m³
- Solubility in water: Insoluble in water
- Solubility(ies): Organics (Soluble in phthalates.)
- Partition Coefficient (n-Octanol/Water): No data available
- Autoignition Temperature not applicable, Decomposes on heating.
- Viscosity: T Applicable
- Explosive Properties: No data available
- Oxidising Properties: Organic Peroxide
- Self Accelerating Decomposition Temperature (SADT): 60°C

9.2 Other information

- VOC level (Base and Hardener): Not Applicable
- Percent Volatile Not Applicable%
- % Solids: Not Applicable

SECTION 10 Stability and reactivity

10.1 Reactivity

- This article is considered stable under normal conditions

10.2 Chemical stability

- Contact with incompatible substances can cause disintegration at or below SADT

10.3 Possibility of hazardous reactions

- Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid

- Keep away from heat and sources of ignition

10.5 Incompatible materials

- strong acids, strong bases, strong oxidising agents

10.6 Hazardous Decomposition Products

- Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity
Acute oral toxicity:
dibenzoyl peroxide : LD50 (Rat, male): > 5.000 mg/kg
dicyclohexyl phthalate :
LD50 (Rat, female): > 2.000 mg/kg

Acute inhalation toxicity:

SECTION 11 Toxicological information (....)

dibenzoyl peroxide : 403	LC50 (Rat, male): 24,3 mg/l Exposure time: 4 h Method: OECD Test Guideline
Acute dermal toxicity: dicyclohexyl phthalate :	LD50 (Rat, male and female): > 2.000 mg/kg Method: OECD Test Guideline 402
Skin corrosion/irritation dibenzoyl peroxide :	Species: Rabbit No skin irritation Method: OECD Test Guideline 404
dicyclohexyl phthalate :	Species: reconstructed human epidermis (RhE) No skin irritation Method: OECD Test Guideline 439
Serious eye damage/eye irritation dibenzoyl peroxide :	Species: Rabbit Irritation to eyes, reversing within 21 days
dicyclohexyl phthalate :	Method: OECD Test Guideline 405 No eye irritation Method: OECD Test Guideline 437
Respiratory or skin sensitisation Sensitisation: dibenzoyl peroxide :	Species: Mouse Result: May cause sensitisation by skin contact.
dicyclohexyl phthalate :	Method: OECD Test Guideline 429 Test Method: LLNA Species: Mouse Result: May cause sensitisation by skin contact.
Germ cell mutagenicity Genotoxicity in vitro: dibenzoyl peroxide :	Type: Ames test, Test species: Salmonella typhimurium, Result: negative Method: OECD Test Guideline 471
dicyclohexyl phthalate :	Test species: Salmonella typhimurium with and without metabolic activation. Result: negative
Carcinogenicity Remarks dibenzoyl peroxide : Mutagenicity:	Animal testing did not show any carcinogenic effects. In vivo tests did not show mutagenic effects
Reproductive toxicity dibenzoyl peroxide : dicyclohexyl phthalate :	Note: No toxicity to reproduction Note: Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments., Suspected of damaging fertility.
Teratogenicity	no data available
STOT - single exposure	no data available
STOT - repeated exposure dibenzoyl peroxide :	NOAEL: Rat: 1.000 mg/kg, Application Route: Ingestion, Exposure time: 29 d Method: OECD Test Guideline 422 Symptoms: No adverse effects.
dicyclohexyl phthalate :	NOAEL: Rat, male and female: 50 mg/kg, Application Route: Ingestion Exposure time: 90 d Method: OECD Test Guideline 408
Aspiration hazard Aspiration toxicity	no data available

SECTION 12 Ecological information

SECTION 12 Ecological information (....)

12.1 Toxicity

Assessment of aquatic toxicity:
There is a high probability that the product is not acutely harmful to aquatic organisms. No toxic effects occur within the range of solubility.

Toxicity to fish:
LC0 (96 h) > 1,000 mg/l, Fish (other)

Aquatic invertebrates:
EC0 (24 h) > 500 mg/l, daphnia (other)

Aquatic plants:
EC0 (72 h) 1,640 mg/l, Scenedesmus subspicatus (OECD Guideline 201)

12.2 Persistence and degradability

- This substance is not readily biodegradable

12.3 Bioaccumulation Potential

Assessment bioaccumulation potential:
Does not significantly accumulate in organisms.

Bioaccumulation potential:
Accumulation in organisms is not to be expected.

12.4 Mobility in soil

Assessment transport between environmental compartments:

Adsorption in soil: Adsorption to solid soil phase is not expected.

12.5 Results of PBT and vPvB assessment

According to Annex XIII of Regulation (EC) No.1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH): Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria.

12.6 Other Adverse Effects

- The product does not contain substances that are listed in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

- Incinerate under controlled conditions, using incinerator suitable for the disposal of noxious chemical waste
- This material and its container must be disposed of as hazardous waste
- This product and any uncleaned containers must be disposed of as hazardous waste in accordance with the 2005 Hazardous Waste Regulations and amendments (United Kingdom)
- Waste key:
  08 05 01¤ waste isocyanates

  Contaminated packaging:
  Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

SECTION 14 Transport information

14.1 UN Number

- UN No.: 3106

14.2 UN Proper Shipping Name

- Proper Shipping Name: ORGANIC PEROXIDE TYPE D, SOLID (DIBENZOYL PEROXIDE)

14.3 Transport hazard class(es)

- Hazard Class: 5.2

14.4 Packing group

- Packing Group: II

14.5 Environmental hazards

- Product contains environmentally hazardous substances:

14.6 Special precautions for user

SECTION 14 Transport information (....)

- Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accidend or spillage.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code

- Not applicable

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Prohibitions, Restrictions and Authorizations
Annex XVII of Regulation (EC) No 1907/2006: Number on List: 56

Occupational Asthma (of which exposure to isocyanates can be a cause) is a reportable disease listed in the Reporting of Injuries, Diseases and Dangerous Occurrence Regulations (United Kingdom).

Diisocyante processes may have to be registered with the appropriate authority, agency or inspectorate as laid down in the (Environmental Protection) Pollution Prevention Control Regulations for the various parts of the United Kingdom (United Kingdom).

The data should be considered when making any assessment under the Control of Substances Hazardous to Health Regulations (COSHH), and related guidance, for example, 'COSHH Essentials' United Kingdom).

15.2 Chemical Safety Assessment

The obligation to register acc. to the REACH Regulation (EC) No 1907/2006 does not apply to polymers.

SECTION 16 Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H241: Heating may cause a fire or explosion. H317: May cause an allergic skin reaction. H319: Causes serious eye irritation. H361f: Suspected of damaging fertility. H400: Very toxic to aquatic life. H412: Harmful to aquatic life with long lasting effects.

The data given here is based on current knowledge and experience. This Safety Data Sheet describes the product in terms of safety requirements and does not signify any warranty with regard to the product's properties

The information provided about the product on this Safety Data Sheet has been compiled from knowledge of the individual constituents