
SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: Chameleon Epoxy Screen Ink Hardener

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

- Use of the substance/mixture: For professional use only., Epoxy ink catalyst

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: LCR Hallcrest
- Address of Manufacturer: Riverside Buildings,
Dock Road,
Connah's Quay,
Deeside,
Flintshire, CH5 4DS,
Wales. U.K.
- Telephone: +44 (0) 1244 817107
- Email: Sales@lcrhallcrest.com

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1244 818348
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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- CLP: Skin Sens. 1, Asp. Tox. 1, Flam. Liq. 3, Skin Irrit. 2, Eye Dam. 1, Carc. 2, Aquatic Chronic 2

2.2 Label elements



- Signal Word: Danger
- Hazard statements
 - May be fatal if swallowed and enters airways.
 - Flammable liquid and vapour.
 - Suspected of causing cancer if swallowed
 - Causes skin irritation.
 - Causes serious eye damage.
 - May cause an allergic skin reaction.
 - Toxic to aquatic life with long lasting effects.
- Precautionary statements
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - Avoid breathing dust/fume/gas/mist/vapours/spray.
 - Store in a well-ventilated place. Keep cool.
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - Wear protective gloves/protective clothing/eye protection/face protection.

SECTION 2: Hazards identification (....)

IF exposed or concerned: Get medical advice/attention.

2.3 Other hazards

- Contains: Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
Aminoethylaminopropyltrimethoxysilane
Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).]
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SECTION 3: Composition/information on ingredients

3.2 Mixtures

- Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine
CAS Number: 68082-29-1
EC Number: 500-191-5
Concentration: 60-100%
Categories: Skin Irrit. 2, Eye Dam. 1, Skin Sens. 1A
Symbols: GHS09 GHS05 GHS07 Dgr
H Statements: H315; H318; H317; H411
- Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).]

CAS Number: 64742-94-5
EC Number: 265-198-5
Concentration: 10-30%
Categories: Asp. Tox. 1
Symbols: GHS08
H Statements: H304
- Aminoethylaminopropyltrimethoxysilane
CAS Number: 1760-24-3
EC Number: 217-164-6
Concentration: 1-5%
Categories: Acute Tox. 4, Eye Dam. 1, Skin Sens. 1
Symbols: GHS08; GHS05; GHS07; Dgr
H Statements: H332; H318; H317
- naphthalene
CAS Number: 91-20-3
EC Number: 202-049-5
Concentration: 1-5%
Categories: Acute Tox. 4, Carc. 2
Symbols: GHS07; GHS08; GHS09

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

H Statements: H351;H302;H400;H410

- 3,6-diazaoctanethylenediamin; triethylenetetramine
 - CAS Number: 112-24-3
 - EC Number: 203-950-6
 - Concentration: <1%
 - Categories: Acute Tox. 4, Skin Corr. 1B, Skin Sens. 1
 - Symbols: GHS05;GHS07
 - H Statements: H312;H314;H317;H412
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SECTION 4: First aid measures**4.1 Description of first aid measures**

- Contact with eyes
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - IF exposed or concerned: Get medical advice/attention.
- Contact with skin
 - IF ON SKIN: Wash with plenty of soap and water.
 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 - If skin irritation or rash occurs: Get medical advice/attention.
- Ingestion
 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 - Do NOT induce vomiting.
 - IF exposed or concerned: Get medical advice/attention.
- Inhalation
 - IF exposed or concerned: Get medical advice/attention.

4.2 Most important symptoms and effects, both acute and delayed

- Can cause damage to the eyes
- Irritating to skin
- May cause an allergic skin reaction.
- May be fatal if swallowed and enters airways.
- May cause irritation

4.3 Indication of any immediate medical attention and special treatment needed

- Immediately call a POISON CENTER or doctor/physician.
 - If eye irritation persists: Get medical advice/attention.
 - Seek medical attention if irritation persists
 - Do not induce vomiting
 - If swallowed seek medical advice immediately and show this container or label
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SECTION 5: Firefighting measures**5.1 Extinguishing media**

- In case of fire: Use

5.2 Special hazards arising from the substance or mixture**5.3 Advice for firefighters**

SECTION 5: Firefighting measures (....)

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Ensure adequate ventilation
- Wear protective clothing as per section 8

6.2 Environmental precautions

- Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

- Collect spillage.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use personal protective equipment as required.
- Wash contaminated clothing before reuse.
- Dispose of contents/container to hazardous waste

7.2 Conditions for safe storage, including any incompatibilities

- Store in a well-ventilated place. Keep cool.
- Store locked up.

7.3 Specific end use(s)

- No information available
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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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

Exposure limits

Component	France
Naphthalene (constituent) 91-20-3	TWA/ME: 10 ppm TWA/ME: 50 mg/m ³
Component	Germany
Naphthalene (constituent) 91-20-3	TWA/AGW: 0.4 ppm inhalable fraction TWA/AGW: 2 mg/m ³ inhalable fraction Skin
Component	Spain
Naphthalene (constituent) 91-20-3	TWA/VLA-ED: 10 ppm TWA/VLA-ED: 53 mg/m ³ STEL/VLA-EC: 15 ppm STEL/VLA-EC: 80 mg/m ³ Skin
Component	Portugal
Naphthalene (constituent) 91-20-3	TWA/VLE-MP: 10 ppm TWA/VLE-MP: 50 mg/m ³ STEL/VLE-CD: 15 ppm Skin
Component	The Netherlands
Naphthalene (constituent) 91-20-3	TWA: 50 mg/m ³ STEL: 80 mg/m ³
Component	Finland
Naphthalene (constituent) 91-20-3	TWA: 1 ppm TWA: 5 mg/m ³ STEL: 2 ppm STEL: 10 mg/m ³
Component	Denmark
Naphthalene (constituent) 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³
Component	Austria
Naphthalene (constituent) 91-20-3	TWA/TMW: 10 ppm TWA/TMW: 50 mg/m ³ Skin
Component	Switzerland
Naphthalene (constituent) 91-20-3	TWA/MAK: 10 ppm TWA/MAK: 50 mg/m ³ Skin
Component	Poland
Naphthalene (constituent) 91-20-3	TWA/NDS: 20 mg/m ³ STEL/NDSch : 50 mg/m ³
Triethylenetetramine 112-24-3	TWA/NDS: 1 mg/m ³ STEL/NDSch : 3 mg/m ³
Component	Norway
Naphthalene (constituent) 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³
Triethylenetetramine 112-24-3	TWA: 1 ppm TWA: 6 mg/m ³
Component	Ireland
Naphthalene (constituent) 91-20-3	TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm

Derived No Effect Level (DNEL)

Component	DNEL - Dermal (Workers)	DNEL - Inhalation (Workers)
Aminoethylaminopropyltrimethoxysilane 1760-24-3	No data found	0.6 mg/m ³ (Local long term)
Naphthalene (constituent) 91-20-3	3.57 mg/kg (Systemic long term)	25 mg/m ³ (Systemic long term) 25 mg/m ³ (Local long term)

SECTION 8: Exposure controls/personal protection (....)**8.2 Exposure controls**

- Contaminated work clothing should not be allowed out of the workplace.
 - Wear protective gloves/protective clothing/eye protection/face protection.
 - Use personal protective equipment as required.

 - Appropriate engineering controls
Ensure adequate ventilation

 - Eye / face protection
Safety goggles with lateral shielding (DIN EN 166)

 - Skin protection - hand protection
Wear disposable gloves

 - Respiratory protection
If the occupational exposure limits are exceeded, suitable respiratory protective equipment must be worn. If no occupational exposure limits are defined, sufficiently effective respiratory protective measures must be taken in the presence of aerosols and vapours.
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SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- Appearance: Liquid
- Colour various
- Boiling Point/Range: >149°C
- Flashpoint: 41°C
- Evaporation rate - not known
- Flammability: No information available
- Vapour pressure - not known
- Vapour density - not known
- Specific gravity: 0.95 g/cm³
- Fat solubility - not known
- Water solubility - not known
- Viscosity - not known
- Auto-ignition point - not known
- Explosive Properties: No information available
- Oxidising Properties: No information available

9.2 Other information

- No information available
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SECTION 10: Stability and reactivity**10.1 Reactivity**

- No information available

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No hazardous reactions known if used for its intended purpose

10.4 Conditions to avoid

SECTION 10: Stability and reactivity (....)

- Keep away from heat and sources of ignition

10.5 Incompatible materials

- Incompatible with alkalis (strong bases)
- Avoid contact with acid
- Incompatible with reducing agents
- Incompatible with strong oxidizing substances

10.6 Hazardous decomposition products

- No information available
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SECTION 11: Toxicological information**11.1 Information on toxicological effects**

- Acute toxicity
No information available
- Skin corrosion/irritation
Can cause skin irritation.
- Serious eye damage/irritation
Can cause damage to the eyes
- Respiratory or skin sensitisation
May cause sensitisation by skin contact.
- Germ cell mutagenicity
No information available
- Carcinogenicity
Suspected of causing cancer.
- Reproductive toxicity
No information available
- STOT-single exposure
No information available
- STOT-repeated exposure
No information available
- Aspiration hazard
May be fatal if swallowed and enters airways.
- Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified; [A complex combination of hydrocarbons obtained from distillation of aromatic streams. It consists predominantly of aromatic hydrocarbons having carbon numbers predominantly in the range of C9 through C16 and boiling in the range of approximately 165 °C to 290 °C (330 °F to 554 °F).]

LD50 (oral, rat): 5000 mg/kg
LD50 (skin, rabbit): 2mL/kg
LC50 (inhalation, rat): 4 hr : 590 mg/m3
- Aminoethylaminopropyltrimethoxysilane
LD50 (oral, rat): 2413 mg/kg
- naphthalene

SECTION 11: Toxicological information (....)

LD50 (oral, rat): 1110 mg/kg
LD50 (skin, rabbit): 1120 mg/kg
LC50 (inhalation, rat): 1 hr : 340 mg/m³

- 3,6-diazaoctanethylenediamin; triethylenetetramine
LD50 (oral, rat): 2500 mg/kg
LD50 (skin, rabbit): 550 mg/kg
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SECTION 12: Ecological information**12.1 Toxicity**

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

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulative potential

- No information available

12.4 Mobility in soil

- immiscible with water

12.5 Results of PBT and vPvB assessment

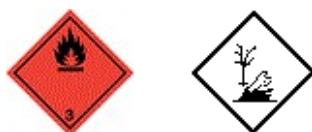
- No information available

12.6 Other adverse effects

- No information available
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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- This material and its container must be disposed of as hazardous waste
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SECTION 14: Transport information**14.1 UN number**

- UN No.: 1210

14.2 Proper Shipping Name

- Proper Shipping Name: PRINTING INK

14.3 Transport hazard class(es)

- Hazard Class: 3

14.4 Packing group

- Packing Group: III
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SECTION 14: Transport information (....)

14.5 Environmental hazards

- Marine Pollutant

14.6 Special precautions for user

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

SECTION 15: Regulatory information

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

- COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No1907/2006 of the European Parliament and of the Council on 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.

15.2 Chemical safety assessment

- A chemical safety assessment (CSA) for this product has not yet been completed
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SECTION 16: Other information

Text not given with phrase codes where they are used elsewhere in this safety data sheet:- H302: Harmful if swallowed. H304: May be fatal if swallowed and enters airways. H312: Harmful in contact with skin. H314: Causes severe skin burns and eye damage. H315: Causes skin irritation. H317: May cause an allergic skin reaction. H318: Causes serious eye damage. H332: Harmful if inhaled. H351: Suspected of causing cancer. H400: Very toxic to aquatic life. H410: Very toxic to aquatic life with long lasting effects. H411: Toxic to aquatic life with long lasting effects. H412: Harmful to aquatic life with long lasting effects.

This information supplied in this Safety Data Sheet is designed only as guidance for the safe use and storage of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information only relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

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