

Please note there are two Material Safety Data Sheets attached for the Epoxy Resin, one for the resin and one for the hardener.

DEPR2012 Resin

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

PRODUCT NAME: 24663 DRAPER 5MIN EPOXY RESIN DEPR2012

APPLICATIONS: BONDING (RESIN)

SUPPLIER: Draper Tools Ltd
Hursley Road
Chandlers Ford
Eastleigh
Hampshire
SO53 1YF
Draper Helpline +44 (0) 2380 494344

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Not Classified

Health hazards

Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards

Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word

Warning

Hazard statements

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

DEPR2012 Resin

- P261 Avoid breathing vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321 Specific treatment (see medical advice on this label).
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.
P501 Dispose of contents/container in accordance with national regulations.
- Contains** Epoxy Resin (Epichlorohydrin, Bisphenol A), Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Epoxy Resin (Epichlorohydrin, Bisphenol A) CAS number: 25085-99-8 EC number: —	60-100%
Classification Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC)
Formaldehyde, oligomeric reaction products with 1-chloro-2,3-epoxypropane and phenol CAS number: 9003-36-5 EC number: 500-006-8	5-10%
Classification Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC)

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. For breathing difficulties, oxygen may be necessary. If breathing stops, provide artificial respiration. Get medical attention if symptoms are severe or persist.

Ingestion

Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist.

Skin contact

Remove contaminated clothing immediately and wash skin with soap and water. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if symptoms are severe or persist after washing.

Eye contact

Get medical attention if irritation persists after washing.

DEPR2012 Resin

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

May cause respiratory irritation.

Ingestion

No specific symptoms known.

Skin contact

May cause an allergic skin reaction. Irritating to skin.

Eye contact

Causes eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Oxides of carbon. Aldehydes Organic acids Acrid smoke or fumes.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Use suitable respiratory protection if ventilation is inadequate. Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate.

6.2. Environmental precautions

Environmental precautions

Avoid the spillage or runoff entering drains, sewers or watercourses. To prevent release, place container with damaged side up.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

If leakage cannot be stopped, evacuate area. Provide adequate ventilation. Absorb spillage with sand or other inert absorbent. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin, eyes and clothing. Do not breathe gas, fume, vapours or spray. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

DEPR2012 Resin

Storage precautions

Do not store near heat sources or expose to high temperatures. Store in tightly-closed, original container in a dry, cool and well-ventilated place.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

8.2. Exposure controls

Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Wear chemical splash goggles.

Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged skin contact.

Respiratory protection

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Viscous liquid.

Colour

Clear.

Odour

Mild.

pH

Not applicable.

Melting point

Not available.

Initial boiling point and range

260°C/500°F @

Flash point

≥ 249°C/480°F PMCC (Pensky-Martens closed cup).

Evaporation rate

Not available.

Vapour pressure

Not available.

Vapour density

Not available.

Solubility(ies)

Insoluble in water.

DEPR2012 Resin

Partition coefficient

Not available.

9.2. Other information

Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Materials to avoid

Oxidising agents. Strong acids. Amines.

10.6. Hazardous decomposition products

Oxides of carbon. Aldehydes. Organic acids

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

No data recorded.

SECTION 12: Ecological Information

Ecotoxicity

Toxic to aquatic life with long lasting effects.

12.1. Toxicity

No data available.

12.2. Persistence and degradability

Persistence and degradability

No data available.

12.3. Bioaccumulative potential

Partition coefficient

Not available.

12.4. Mobility in soil

Mobility

No information available

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

DEPR2012 Resin

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods

Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents.

SECTION 14: Transport information

14.1. UN number

3082

14.2. UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S (Epoxy Resin Number average MWC <= 700)

14.3. Transport hazard class(es)

9

Transport labels



14.4. Packing group

III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



Yes.

14.6. Special precautions for user

EmS	F-A, S-F
Emergency Action Code	32
Hazard Identification Number (ADR/RID)	90
Tunnel restriction code	(E)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

EU legislation

Commission Directive 2000/39/EC of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments. Dangerous Preparations Directive 1999/45/EC.

15.2. Chemical safety assessment

Inventories

DEPR2012 Resin

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

SDS number 4833

Hazard statements in full

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

DEPR2012 Hardener

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

PRODUCT NAME: 24663 DRAPER 5MIN EPOXY RESIN DEPR2012

APPLICATIONS: BONDING (HARDENER)

SUPPLIER: Draper Tools Ltd
Hursley Road
Chandlers Ford
Eastleigh
Hampshire
SO53 1YF
Draper Helpline +44 (0) 2380 494344

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Not Classified

Health hazards

Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards

Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

DEPR2012 Hardener

- P260 Do not breathe vapour/spray.
 - P261 Avoid breathing vapour/spray.
 - P264 Wash contaminated skin thoroughly after handling.
 - P270 Do not eat, drink or smoke when using this product.
 - P271 Use only outdoors or in a well-ventilated area.
 - P272 Contaminated work clothing should not be allowed out of the workplace.
 - P273 Avoid release to the environment.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.
 - P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P302+P352 IF ON SKIN: Wash with plenty of water.
 - P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 - P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 - P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P312 Call a POISON CENTER/doctor if you feel unwell.
 - P321 Specific treatment (see medical advice on this label).
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 - P362+P364 Take off contaminated clothing and wash it before reuse.
 - P363 Wash contaminated clothing before reuse.
 - P391 Collect spillage.
 - P405 Store locked up.
 - P501 Dispose of contents/container in accordance with national regulations.
- Triethylene Glycol Dimercaptan, N(3-dimethylaminopropyl)-1,2-propylenediamine

Contains

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Triethylene Glycol Dimercaptan CAS number: 14970-87-7 EC number: ---	60-100%
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332	Classification (67/548/EEC or 1999/45/EC)
N(3-dimethylaminopropyl)-1,2-propylenediamine CAS number: 10563-29-8 EC number: ---	10-30%
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317	Classification (67/548/EEC or 1999/45/EC)

DEPR2012 Hardener

Terphenyl CAS number: 26140-60-3 EC number: — M factor (Acute) = 1 M factor (Chronic) = 1	10-30%
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC)

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation

Remove person to fresh air and keep comfortable for breathing. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary. Get medical attention if symptoms are severe or persist.

Ingestion

Do not induce vomiting unless under the direction of medical personnel. Give a few small glasses of water or milk to drink. Never give anything by mouth to an unconscious person. Get medical attention if symptoms are severe or persist.

Skin contact

Remove contaminated clothing. Wash skin thoroughly with soap and water. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if symptoms are severe or persist.

Eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention. If in doubt, get medical attention promptly.

4.2. Most important symptoms and effects, both acute and delayed

General information

The product contains a sensitising substance.

Inhalation

May be harmful if inhaled.

Ingestion

Harmful if swallowed.

Skin contact

Causes burns. May cause sensitisation by skin contact. May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact

Causes serious eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Specific treatments

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray, foam, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Oxides of carbon. Carbon dioxide (CO₂). Carbon monoxide (CO). Oxides of nitrogen.

5.3. Advice for firefighters

Special protective equipment for firefighters

DEPR2012 Hardener

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions

To prevent release, place container with damaged side up. Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Provide adequate ventilation. Eliminate all sources of ignition. Clear up spills immediately and dispose of waste safely. Absorb spillage with sand or other inert absorbent. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes and clothing. Do not breathe gas, fume, vapours or spray. Do not eat, drink or smoke when using this product. Keep container tightly closed and at temperature not exceeding 23°C. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Keep container tightly closed and at temperature not exceeding 23°C. Keep container tightly sealed when not in use.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Terphenyl

Short-term exposure limit (15-minute): WEL 0.5 ppm 4.8 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Wear chemical splash goggles.

Other skin and body protection

Wear appropriate clothing to prevent skin contamination.

DEPR2012 Hardener

Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Clear liquid.

Colour

Colourless.

Odour

Strong.

pH

Not applicable.

Melting point

Not available.

Initial boiling point and range

>149°C @

Flash point

≥ 157°C COC (Cleveland open cup).

Evaporation rate

Not available.

Vapour pressure

Not available.

Vapour density

Not available.

Solubility(ies)

Slightly soluble in water.

Partition coefficient

Not available.

9.2. Other information

Other information

No information required.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Will not polymerise.

10.4. Conditions to avoid

Keep away from heat, sparks and open flame.

10.5. Incompatible materials

Materials to avoid

Oxidising agents. Acids - oxidising. Acids - non-oxidising.

DEPR2012 Hardener

10.6. Hazardous decomposition products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)

555.5555556

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

12.2222222

SECTION 12: Ecological information

Ecotoxicity

Very toxic to aquatic life with long lasting effects. The product contains substances which are toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

12.1. Toxicity

12.2. Persistence and degradability

Persistence and degradability

There are no data on the degradability of this product.

12.3. Bioaccumulative potential

Partition coefficient

Not available.

12.4. Mobility in soil

Mobility

No data on possible environmental effects have been found.

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

14.1. UN number

1760

14.2. UN proper shipping name

CORROSIVE LIQUID, N.O.S. (Contains N(3-dimethylaminopropyl)-1,2-propylenediamine and Terphenyl)

14.3. Transport hazard class(es)

8

14.4. Packing group

II

DEPR2012 Hardener

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



Yes.

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Dangerous Preparations Directive 1999/45/EC.

15.2. Chemical safety assessment

Inventories

EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

SECTION 16: Other information

Revision date 21/01/2015

SDS number 4832

Hazard statements in full

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- 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.