



**SAFETY DATA SHEET**  
**SELF HEALING PU GEL 5083A**

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**PRODUCT NAME** SELF HEALING PU GEL 5083A  
**PRODUCT NO.** EUR5083A  
**APPLICATION** Resin  
**SUPPLIER** ELECTROLUBE. A division of  
 HK WENTWORTH LTD  
 KINGSBURY PARK, MIDLAND  
 ROAD  
 SWADLINCOTE  
 DERBYSHIRE, DE11 0AN  
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 +44(0)1283 222 111  
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**EMERGENCY TELEPHONE** +44(0)1283 222 111 between 8.30 am - 5.00pm Mon - Fri

**2 HAZARDS IDENTIFICATION**

Not regarded as a health or environmental hazard under current legislation.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
Polyphenyls- hydrogenated		68956-74-1	60-80%	-

The Full Text for all R-Phrases are Displayed in Section 16

**COMPOSITION COMMENTS**

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

**4 FIRST-AID MEASURES**

**INHALATION**

Move the exposed person to fresh air at once. Keep the affected person warm and at rest. Get prompt medical attention.

**INGESTION**

DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention immediately!

**SKIN CONTACT**

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

**EYE CONTACT**

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Fire can be extinguished using: Water spray, fog or mist. Foam. Powder.

**6 ACCIDENTAL RELEASE MEASURES**

**SPILL CLEAN UP METHODS**

Ventilate well. Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers.

## SELF HEALING PU GEL 5083A

### 7 HANDLING AND STORAGE

#### USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Persons susceptible for allergic reactions should not handle this product.

#### STORAGE PRECAUTIONS

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

### 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### PROTECTIVE EQUIPMENT



#### ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

#### RESPIRATORY EQUIPMENT

No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit.

#### HAND PROTECTION

Use suitable protective gloves if risk of skin contact. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

#### EYE PROTECTION

Wear approved safety goggles.

#### OTHER PROTECTION

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

#### HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly with soap & water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Viscous		
COLOUR	Colourless		
ODOUR	Aromatic.		
RELATIVE DENSITY	0.960 @ 20 C	VISCOSITY	10,000 mPas @ 25 C

### 10 STABILITY AND REACTIVITY

#### STABILITY

Stable under normal temperature conditions.

#### CONDITIONS TO AVOID

Avoid heat, flames and other sources of ignition.

#### MATERIALS TO AVOID

No incompatible groups noted.

#### HAZARDOUS DECOMPOSITION PRODUCTS

High temperatures generate: Irritating gases/vapours/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO).

### 11 TOXICOLOGICAL INFORMATION

#### INGESTION

May cause stomach pain or vomiting.

#### SKIN CONTACT

Irritating to skin. May cause skin irritation/eczema

## SELF HEALING PU GEL 5083A

### EYE CONTACT

Irritating to eyes.

### HEALTH WARNINGS

No specific acute or chronic health impact noted, but this chemical may still have adverse impact on human health, either in general or on certain individuals with pre-existing or latent health problems.

### Other Health Effects

This substance has no evidence of carcinogenic properties.

## 12 ECOLOGICAL INFORMATION

### ECOTOXICITY

Not regarded as dangerous for the environment.

## 13 DISPOSAL CONSIDERATIONS

### DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

## 14 TRANSPORT INFORMATION

### GENERAL

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

### ROAD TRANSPORT NOTES

Not Classified

### RAIL TRANSPORT NOTES

Not Classified.

### SEA TRANSPORT NOTES

Not Classified.

### AIR TRANSPORT NOTES

Not Classified.

### ADR CLASS

Not classified for transportation.

### MARINE POLLUTANT

No.

## 15 REGULATORY INFORMATION

### RISK PHRASES

NC Not classified.

### SAFETY PHRASES

NC Not classified.

### UK REGULATORY REFERENCES

The Control of Substances Hazardous to Health Regulations 1988.

Chemicals (Hazard Information & Packaging) Regulations.

### ENVIRONMENTAL LISTING

Rivers (Prevention of Pollution) Act 1961. Control of Pollution (Special Waste Regulations) Act 1980. Control of Pollution Act 1974.

### EU DIRECTIVES

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Dangerous Substance Directive 67/548/EEC.

Dangerous Preparations Directive 1999/45/EC.

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.

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), 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, including amendments.

### APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. Safety Data Sheets for Substances and Preparations.

### SELF HEALING PU GEL 5083A

#### GUIDANCE NOTES

Workplace Exposure Limits EH40.

#### 16 OTHER INFORMATION

#### REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

#### ISSUED BY

Helen O'Reilly

**REVISION DATE** NOVEMBER 2008

**REV. NO./REPL. SDS** 3

**GENERATED**

**SDS NO.** 10905

#### RISK PHRASES IN FULL

NC Not classified.

#### DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



**SAFETY DATA SHEET**  
**SELF HEALING PU GEL 5083B**

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**PRODUCT NAME** SELF HEALING PU GEL 5083B  
**PRODUCT NO.** EUR5083B  
**APPLICATION** Resin  
**SUPPLIER** ELECTROLUBE. A division of  
 HK WENTWORTH LTD  
 KINGSBURY PARK, MIDLAND  
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**EMERGENCY TELEPHONE** +44(0)1283 222 111 between 8.30 am - 5.00pm Mon - Fri

**2 HAZARDS IDENTIFICATION**

May cause sensitisation by inhalation and skin contact.

**CLASSIFICATION** R42/43.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EC No.	CAS-No.	Content	Classification
METHYLENEDIPHENYL DIISOCYANATE	247-714-0	26447-40-5	1-5%	Xn;R20 R42/43 Xi;R36/37/38

The Full Text for all R-Phrases are Displayed in Section 16

**COMPOSITION COMMENTS**

Ingredients not listed are classified as non-hazardous or at a concentration below reportable levels

**4 FIRST-AID MEASURES**

**INHALATION**

Move the exposed person to fresh air at once. Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues. If respiratory problems, artificial respiration/oxygen.

**INGESTION**

DO NOT INDUCE VOMITING! Immediately rinse mouth and provide fresh air. Get medical attention immediately!

**SKIN CONTACT**

Remove affected person from source of contamination. Immediately remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

**EYE CONTACT**

Promptly wash eyes with plenty of water while lifting the eye lids. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention. Get medical attention if any discomfort continues.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Fire can be extinguished using: Water spray, fog or mist. Foam. Powder.

**SPECIAL FIRE FIGHTING PROCEDURES**

Avoid breathing fire vapours. Use pressurised air mask if product is involved in a fire.

**SELF HEALING PU GEL 5083B****UNUSUAL FIRE & EXPLOSION HAZARDS**

Fire causes formation of toxic gases.

**SPECIFIC HAZARDS**

Fire creates: Irritating gases/vapours/fumes of Hydrogen cyanide (HCN). Nitrous gases (NOx).

**6 ACCIDENTAL RELEASE MEASURES****SPILL CLEAN UP METHODS**

When dealing with a spillage, please consult the section relating to suitable protective measures. Wear necessary protective equipment. Stop leak if possible without risk. Flush with plenty of water to clean spillage area. Do not contaminate water sources or sewer.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Persons with impaired lung functions should not handle this preparation. Persons susceptible for allergic reactions should not handle this product. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

**STORAGE PRECAUTIONS**

Keep in original container. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
METHYLENEDIPHENYL DIISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	

WEL = Workplace Exposure Limit.

**INGREDIENT COMMENTS**

WEL = Workplace Exposure Limits

**PROTECTIVE EQUIPMENT****ENGINEERING MEASURES**

Provide adequate general and local exhaust ventilation.

**RESPIRATORY EQUIPMENT**

Respiratory protection must be used if air contamination exceeds acceptable level.

**HAND PROTECTION**

Use protective gloves made of: Rubber, neoprene or PVC. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Wear approved, tight fitting safety glasses where splashing is probable.

**OTHER PROTECTION**

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

**HYGIENE MEASURES**

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly if skin becomes contaminated. When using do not eat, drink or smoke.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

<b>APPEARANCE</b>	Viscous Liquid
<b>COLOUR</b>	Amber
<b>ODOUR</b>	Musty (mouldy).

**SELF HEALING PU GEL 5083B**

<b>SOLUBILITY</b>	Insoluble in water		
<b>MELTING POINT (°C)</b>	<15	<b>RELATIVE DENSITY</b>	1.00 @ 20 °c
<b>BULK DENSITY</b>	1000 kg/m <sup>3</sup>	<b>VISCOSITY</b>	0.5 mPas @ 25 °c
<b>FLASH POINT (°C)</b>	>190 CC (Closed cup).	<b>AUTO IGNITION TEMPERATURE (°C)</b>	>260

**10 STABILITY AND REACTIVITY****STABILITY**

Stable under normal temperature conditions.

**CONDITIONS TO AVOID**

Avoid heat, flames and other sources of ignition. Avoid contact with strong oxidisers. Reacts strongly with strong acids, bases, organic chemicals and certain metal combinations.

**HAZARDOUS DECOMPOSITION PRODUCTS**

High temperatures generate: Toxic gases/vapours/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Hydrogen cyanide (HCN).

**11 TOXICOLOGICAL INFORMATION**

**TOXIC DOSE 1 - LD 50** >2000 mg/kg (oral rat)

**TOXIC CONC. - LC 50** 490 mg/l/4h (inh-rat)

**GENERAL INFORMATION**

No specific health warnings noted.

**INHALATION**

Harmful by inhalation. High concentrations of vapours may irritate respiratory system and lead to headache, fatigue, nausea and vomiting. May cause sensitisation by inhalation.

**INGESTION**

May cause stomach pain or vomiting.

**SKIN CONTACT**

Irritating to skin. Prolonged or repeated exposure may cause severe irritation.

**EYE CONTACT**

Irritating to eyes.

**Other Health Effects**

This substance has no evidence of carcinogenic properties.

<b>Name</b>	METHYLENEDIPHENYL DIISOCYANATE
<b>Toxic Dose 1 - LD 50</b>	5000 mg/kg (oral rat)
<b>Toxic Dose 2 - LD 50</b>	5000 mg/kg (ipr-rat)
<b>Toxic Conc. - LC 50</b>	370 mg/l/4h (inh-rat)

**12 ECOLOGICAL INFORMATION****ECOTOXICITY**

Not regarded as dangerous for the environment. The polymer is expected to be of low toxicity.

<b>Name</b>	METHYLENEDIPHENYL DIISOCYANATE
<b>LC 50, 96 Hrs, FISH mg/l</b>	100
<b>EC 50, 48 Hrs, DAPHNIA, mg/l</b>	100

**13 DISPOSAL CONSIDERATIONS****DISPOSAL METHODS**

Dispose of waste and residues in accordance with local authority requirements.

**14 TRANSPORT INFORMATION****GENERAL**

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

No transport warning sign required.

**ROAD TRANSPORT NOTES**

Not Classified

**RAIL TRANSPORT NOTES**

Not Classified.

### SELF HEALING PU GEL 5083B

**SEA TRANSPORT NOTES** Not Classified.  
**AIR TRANSPORT NOTES** Not Classified.  
**MARINE POLLUTANT** No.

#### 15 REGULATORY INFORMATION

##### SYMBOLS



Harmful

**CONTAINS** METHYLENEDIPHENYL DIISOCYANATE

##### RISK PHRASES

R42/43 May cause sensitisation by inhalation and skin contact.

##### SAFETY PHRASES

S23 Do not breathe vapour/spray.  
S24 Avoid contact with skin.  
S37 Wear suitable gloves.  
S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).  
P4 Contains isocyanates. See information supplied by the manufacturer.

##### UK REGULATORY REFERENCES

Chemicals (Hazard Information & Packaging) Regulations.

The Control of Substances Hazardous to Health Regulations 1988.

##### ENVIRONMENTAL LISTING

Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980. Rivers (Prevention of Pollution) Act 1961.

##### EU DIRECTIVES

Dangerous Substance Directive 67/548/EEC.

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##### GUIDANCE NOTES

Workplace Exposure Limits EH40.

#### 16 OTHER INFORMATION

##### REVISION COMMENTS

Revised in accordance with CHIP3 and EU Directives 1999/45/EC and 2001/58/EC

##### ISSUED BY

Helen O'Reilly

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##### GENERATED

**SDS NO.** 10888



### SELF HEALING PU GEL 5083B

#### RISK PHRASES IN FULL

R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R42/43	May cause sensitisation by inhalation and skin contact.

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