



Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

DOCUMENT GROUP:	METAL/REPAIR/SYSTEMS	VERSION REF:	11635/UPS105EG
DATE:	1 ST FEBRUARY 2018	VERSION NO:	2.00
REVISION DATE:	1 ST FEBRUARY 2019	SUPERSEDES DATE:	1 ST NOVEMBER 2016

MATERIAL SAFETY DATA SHEET

UPS 105 EG METAL REPAIR PASTE KIT

MANUFACTURER:
UNIQUE POLYMER SYSTEMS LTD,
UNIT 19, LINK BUSINESS CENTRE,
LINK WAY, MALVERN, WORCESTERSHIRE
WR14 1UQ
UNITED KINGDOM
TELEPHONE NUMBER: +44 (0) 1531 63 63 00
EMAIL: SALES@UNIQUEPOLYMERSYSTEMS.COM

EMERGENCY TELEPHONE NUMBER: +44 (0) 1531 63 63 00

THIS PRODUCT IS A KIT AND SUPPLIED AS A MULTI PART PRODUCT WHICH CONSISTS OF A BASE COMPONENT AND ACTIVATOR COMPONENT. THIS DOCUMENT CONTAINS THE MSDS FOR BOTH BASE AND ACTIVATOR COMPONENTS.

TRANSPORTATION INFORMATION

ACTIVATOR	BASE
UN number: UN1759 UN proper shipping name Shipping name: CORROSIVE SOLID, N.O.S. Transport hazard class(es) Transport class: 8 Packing group Packing group: III Environmentally hazardous: No Marine pollutant: No Special precautions for user Special precautions: No special precautions. Tunnel code: E Transport category: 3	UN number: UN3077 UN proper shipping name Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. Transport hazard class(es) Transport class: 9 Packing group Packing group: III Environmental hazards Environmentally hazardous: Yes Marine pollutant: No Special precautions for user Tunnel code: E Transport category: 3

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

DISCLAIMER: The information supplied in the MSDS is correct at the time of writing and date of issue. No warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for particular purpose or course of performance or usage of trade. The user of the material is responsible for ensuring the suitability of this product for application.

SECTION 1: Identification of Substance/ Preparation and Company

- 1.1 Product identifier
UPS 105 EG METAL REPAIR PASTE ACTIVATOR
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Aliphatic polyamine hardener blend with inert fillers for repairing metalwork
- 1.3 Details of the supplier of the safety data sheet
Unique Polymer Systems LTD, Unit 1 Bankside Industrial Estate, Ledbury, Herefordshire, HR8 2DR
Tel: +44 (0) 1531 636300
Email: info@uniquepolymersystems.com
- 1.4 Emergency telephone number
+44 (0) 1531 636300 (9am to 5pm)

SECTION 2: Hazards Identification

Section 2: Hazards identification

- 2.1. Classification of the substance or mixture
Classification under CHIP: Xn: R20/21/22; C: R34; Sens.: R43; Xn: R68
Classification under CLP: Acute Tox. 4: H302; Muta. 2: H341; Repr. 2: H361f; Skin Corr. 1B: H314; Skin Sens. 1: H317
Most important adverse effects: Harmful by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Possible risk of irreversible effects.
- 2.2. Label elements
Label elements:
Hazard statements: H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H317: May cause an allergic skin reaction.
H341: Suspected of causing genetic defects.
H361f: Suspected of damaging fertility.

Signal words: Danger

Hazard pictograms:
GHS05: Corrosion
GHS07: Exclamation mark
GHS08: Health hazard



Precautionary statements: P102: Keep out of reach of children.
P202: Do not handle until all safety precautions have been read and understood.

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

P260: Do not breathe dust/fumes/gas/mist/vapours/spray.
P301+312: IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+352: IF ON SKIN: Wash with plenty of water/.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+351+338: 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 hazardous or special waste collection point.

Label elements under CHIP:
Hazard symbols: Corrosive.



Risk phrases: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R34: Causes burns.
R43: May cause sensitisation by skin contact.
R68: Possible risk of irreversible effects.
Safety phrases: S1/2: Keep locked up and out of the reach of children.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39: Wear suitable protective clothing, gloves and eye / face protection.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

2.3. Other hazards
PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures
Hazardous ingredients:

FORMALDEHYDE POLYMER WITH PHENOL AND TETA

EINECS	CAS	CHIP Classification	Cl P Classification	Percent
-	32610-77-8	Xn: R21/22; C: R34; Sems: R34; -: R52/53	-	10-30%

2,2'-IMINODIETHYLAMINE

203-865-4	111-40-0	Xn: R21/22; C: R34; Sens.: R43	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317	1-10%
-----------	----------	-----------------------------------	---	-------

4,4'-ISOPROPYLIDENEDIPHENOL

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

201-245-8	80-05-7	Xn: R62; Xi: R37, Xi; R41; Sens: R43;-: R52	Repr. 2: H361f; STOT SE 3: H335; Eye Dam. 1: H318; Skin Sens. 1: H317	1-10%
-----------	---------	---	---	-------

3,6-DIAZAOCTANETHYLENEDIAMINE

203-950-6	112-24-3	Xn: R21; C: R34; Sens.: R43; -: R52/53	Acute Tox. 4: H312; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	1-10%
-----------	----------	--	--	-------

PHENOL

203-632-7	108-95-2	T: R23/24/25; C: R34; Xn: R48/20/21/22; Xn: R68	Muta. 2: H341; Acute Tox. 3: H331; Acute Tox. 3: H311; Acute Tox. 3: H301; STOT RE 2: H373; Skin Corr. 1B: H314	1-10%
-----------	----------	--	---	-------

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

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

Immediate / special treatment: Not applicable.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

5.2. Special hazards arising from the substance or mixture
Exposure hazards: Corrosive. In combustion emits toxic fumes.

5.3. Advice for fire-fighters
Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions: Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Do not create dust.

6.2. Environmental precautions
Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up
Clean-up procedures: Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

6.4. Reference to other sections
Reference to other sections: Refer to section 8 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handling
Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.

7.2. Conditions for safe storage, including any incompatibilities
Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.
Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)
Specific end use(s): No data available.

Section 8: Exposure controls/personal protection

8.1. Control parameters
Hazardous ingredients:
2,2'-IMINODIETHYLAMINE

Workplace exposure limits : Respirable dust

State	8 hour TWA	15 min. STEL	8 hour TWA	15 min STEL
UK	4.3 mg/m ³	-	-	-

4,4'-ISOPROPYLIDENEDIPHENOL

UK	5 mg/m ³	5mg/ m ³	-	-
----	---------------------	---------------------	---	---

PHENOL

Unique Polymer Systems LTD
Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

UK	2 ppm	4 ppm	-	-
----	-------	-------	---	---

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Self-contained breathing apparatus must be available in case of emergency. Respiratory protective device with particle filter.

Hand protection: Protective gloves.

Eye protection: Tightly fitting safety goggles. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: Pale grey

Odour: Ammoniacal

Relative density: 1.70

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

10.4. Conditions to avoid

Conditions to avoid: Heat.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

Section 11: Toxicological information

11.1. Information on toxicological effects

Hazardous ingredients:

2,2'-IMINODIETHYLAMINE

IPR	RAT	LD50	74	mg/kg
ORL	MUS	LD50	970	mg/kg
ORL	RAT	LD50	970	mg/kg

4,4'-ISOPROPYLIDENEDIPHENOL

ORL	MUS	LD50	2400	mg/kg
ORL	RAT	LD50	3250	mg/kg

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

3,6-DIAZOCTANETHYLENEDIAMINE

IVN	MUS	LD50	350	mg/kg
ORL	MUS	LD50	1600	mg/kg
ORL	RAT	LD50	2500	mg/kg

PHENOL

ORL	MUS	LD50	270	mg/kg
ORL	MUS	LD50	317	mg/kg
SCU	RAT	LD50	460	mg/kg

Relevant effects for mixture:

Effect	Route	Basis
Acute toxicity (harmful)	INH DRM ING	Hazardous: calculated
Corrosivity	OPT INH DRM	Hazardous: calculated
Sensitisation	DRM	Hazardous: calculated

Symptoms / routes of exposure

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

Ingestion: Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

Inhalation: There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN1759

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

14.2. UN proper shipping name
Shipping name: CORROSIVE SOLID, N.O.S.
14.3. Transport hazard class(es)
Transport class: 8
14.4. Packing group
Packing group: III
14.5. Environmental hazards
Environmentally hazardous: No Marine pollutant: No
14.6. Special precautions for user
Special precautions: No special precautions.
Tunnel code: E
Transport category: 3

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Specific regulations: Not applicable.
15.2. Chemical Safety Assessment
Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H301: Toxic if swallowed.

H302: Harmful if swallowed.

H311: Toxic in contact with skin.

H312: Harmful in contact with skin.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H318: Causes serious eye damage.

H331: Toxic if inhaled.

H335: May cause respiratory irritation.

H341: Suspected of causing genetic defects <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H361f: Suspected of damaging fertility.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

H412: Harmful to aquatic life with long lasting effects.

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.

R21/22: Harmful in contact with skin and if swallowed.

R21: Harmful in contact with skin.

R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.

R34: Causes burns.

R37: Irritating to respiratory system.

R41: Risk of serious damage to eyes.

R43: May cause sensitisation by skin contact.

R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

R52: Harmful to aquatic organisms.
R62: Possible risk of impaired fertility.
R68: Possible risk of irreversible effects.

DISCLAIMER: The information supplied in the MSDS is correct at the time of writing and date of issue. No warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for particular purpose or course of performance or usage of trade. The user of the material is responsible for ensuring the suitability of this product for application.

DISCLAIMER: The information supplied in the MSDS is correct at the time of writing and date of issue. No warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for particular purpose or course of performance or usage of trade. The user of the material is responsible for ensuring the suitability of this product for application.

SECTION 1: Identification of Substance/ Preparation and Company

- 1.2 Product identifier
UPS 105 EG METAL REPAIR PASTE BASE
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
Aliphatic polyamine hardener blend with inert fillers for repairing metalwork
- 1.3 Details of the supplier of the safety data sheet
Unique Polymer Systems LTD, Unit 1 Bankside Industrial Estate, Ledbury, Herefordshire, HR8 2DR
Tel: +44 (0) 1531 636300
Email: info@uniquepolymersystems.com
- 1.4 Emergency telephone number
+44 (0) 1531 636300 (9am to 5pm)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CHIP: Xi: R36/38; Sens.: R43; N: R51/53

Classification under CLP: Acute Tox. 4: H302; Aquatic Chronic 2: H411; Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; -: EUH205

Most important adverse effects: Irritating to eyes and skin. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label elements:

Hazard statements: EUH205: Contains epoxy constituents. May produce an allergic reaction.

H302: Harmful if swallowed.

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.

Signal words: Warning

Hazard pictograms:

GHS07: Exclamation mark

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

GHS09: Environmental



Precautionary statements: P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor/.
P302+352: IF ON SKIN: Wash with plenty of water/.
P305+351+338: 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 information on this label).
P501: Dispose of contents/container to hazardous or special waste collection point.

Label elements under CHIP:

Hazard symbols:

Irritant.

Dangerous for the environment.



Risk phrases: R36/38: Irritating to eyes and skin.
R43: May cause sensitisation by skin contact.
R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases: S2: Keep out of the reach of children.

S24: Avoid contact with skin.

S29: Do not empty into drains.

S37: Wear suitable gloves.

S61: Avoid release to the environment. Refer to special instructions / safety data sheets.

2.3. Other hazards

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.2. Mixtures

Hazardous ingredients:

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

EINECS	CAS	CHIP Classification	CLP Classification	Percent
500-033-5	25068-38-6	Xi: R36/38; Sens.: R43; N: R51/53	Eye Irrit. 2: H319; Skin Irrit. 2: H315; Skin Sens. 1: H317; Aquatic Chronic 2: H411	10-30%

BISPHENOL F TYPE EPOXY RESIN

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

500-108-2	28064-14-4	Xi: R36/38; N: R51/53; Sens.: R43	Skin Irrit. 2: H315; Eye Irrit. 2: H319; Skin Sens. 1: H317; Aquatic Chronic 2: H411	10-30%
-----------	------------	--------------------------------------	--	--------

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Wash immediately with plenty of soap and water.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

Ingestion: Do not induce vomiting. Wash out mouth with water. If conscious, give half a litre of water to drink immediately. Consult a doctor.

Inhalation: Not applicable.

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

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Not applicable.

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

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol or polymer foam. Dry chemical powder. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Refer to section 8 of SDS for personal protection details.

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains or rivers.

6.3. Methods and material for containment and cleaning up

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method. Refer to section 13 of SDS for suitable method of disposal.

6.4. Reference to other sections

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Ensure there is sufficient ventilation of the area.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed. Keep away from direct sunlight. Avoid incompatible materials and conditions - see section 10 of SDS.

Suitable packaging: Must only be kept in original packaging.

7.3. Specific end use(s)

Specific end use(s): No data available.

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

DNEL/PNEC Values

DNEL / PNEC No data available.

8.2. Exposure controls

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Respiratory protection not required.

Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin protection: Impermeable protective clothing.

Environmental: Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Paste

Colour: Dark grey

Odour: Barely perceptible odour

Evaporation rate: Negligible

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Insoluble

Viscosity: Highly viscous

Boiling point/range°C: >200 **Flash point°C:** >150

Relative density: 2.7g/cc

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

10.4. Conditions to avoid

Conditions to avoid: Direct sunlight. Flames.

10.5. Incompatible materials

Materials to avoid: Strong acids. Strong oxidising agents. Amines. Alkalis.

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes of carbon dioxide / carbon monoxide.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values:

Route	Species	Test	Value	Units
ORAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	>2000	mg/kg

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

Hazardous ingredients:

BISPHENOL A-(EPICHLORHYDRIN) {REACTION PRODUCT}

ORAL	MUS	LD50	15600	mg/kg
ORAL	RAT	LD50	11400	mg/kg
SKN	RBT	LD50	>20	ml/kg

Relevant effects for mixture:

Effect	Route	Basis
Irritation	OPT DRM	Hazardous; calculated
Sensitisation	DRM	Hazardous; calculated

Symptoms / routes of exposure

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be irritation of the throat.

Inhalation: There may be irritation of the throat with a feeling of tightness in the chest.

Delayed / immediate effects: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values:

Species	Teat	Value	Units
FISH	96H LC50	>5000	mg/l

12.2. Persistence and degradability

Persistence and degradability: Not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential: Bioaccumulation potential.

12.4. Mobility in soil

Mobility: Insoluble in water.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Toxic to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal company. Mixed material, once fully cured, can be disposed as solid waste.

Waste code number: 08 04 09

Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Section 14: Transport information

14.1. UN number

UN number: UN3077

14.2. UN proper shipping name

Shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Unique Polymer Systems LTD

Unit 19 Link Business Centre, Link Way, Malvern, WR14 1UQ, United Kingdom +44(0) 1531 63 63 00

sales@uniquepolymersystems.com www.uniquepolymersystems.com

Copyright, 2017, Unique Polymer Systems LTD Company All rights reserved. Copying and/or downloading of this information for the purpose of properly utilising Unique Polymer Systems LTD products is allowed provided that: (1) the information is copied, in full with no changes unless prior written agreement is obtained from Unique Polymer Systems LTD, and (2) neither the copy nor the original is resold or otherwise distributed with the intention of earning a profit thereon. This Safety Data Sheet has been prepared in accordance with the REACH Regulation (EC) 1907/2006 and its modifications.

14.3. Transport hazard class(es)

Transport class: 9

14.4. Packing group

Packing group: III

14.5. Environmental hazards

Environmentally hazardous: Yes Marine pollutant: No

14.6. Special precautions for user

Tunnel code: E

Transport category: 3

Section 15: Regulatory information

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

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

Other information

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: EUH205: Contains epoxy constituents. May produce an allergic reaction.

H302: Harmful if swallowed.

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.

R36/38: Irritating to eyes and skin.

R43: May cause sensitisation by skin contact.

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

DISCLAIMER: The information supplied in the MSDS is correct at the time of writing and date of issue. No warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for particular purpose or course of performance or usage of trade. The user of the material is responsible for ensuring the suitability of this product for application.