DOCUMENT GROUP:	*METAL/REPAIR/SYSTEMS*	*VERSION REF:*	*11635/UPS19060SGUW*
DATE:	*1ST FEBRUARY 2018*	*VERSION NO:*	*2.00*
REVISION DATE:	*1ST FEBRUARY 2019*	*SUPERSEDES DATE:*	*1ST NOVEMBER 2016*

MATERIAL SAFETY DATA SHEET
UPS 19060 SGUW STICK GRADE
METAL UNDERWATER

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 TELEHONE 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

ADR: NOT HAZARDOUS, NOT APPLICABLE
IMDG: NOT HAZARDOUS, NOT APPLICABLE
ICAO: NOT HAZARDOUS, NOT APPLICABLE

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 19060 SGUW STICK GRADE METAL

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

Two component epoxy based adhesive.

1.3 Details of the supplier of the safety data sheet

Unique Polymer Systems LTD,
Unit 19, Link Business Centre,
Link Way, Malvern, Worcestershire,
WR14 1UQ, United Kingdom
Tel: +44 (0) 1531 63 63 00
Email: sales@uniquepolymersystems.com

1.4 Emergency telephone number

+44 (0) 1531 63 63 00 (9am to 5pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Not Classified

Health hazards

Skin Irritation. 2 - H315 Eye Irritation. 2 - H319 Skin Sens. 1 - H317

Environmental hazards

Aquatic Chronic 3 - H412

Classification (67/548/E EC or 1999/45/E C)

Xi; R36/38. R52/53, R43

Human health

May cause skin sensitisation or allergic reactions in sensitive individuals. Irritating to eyes and skin.

2.2. Label elements

Pictogram

Signal word Warning

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P264 Wash contaminated skin thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with national regulations.
Contains EPOXY RESIN (Number average MW <= 700)
Supplementary precautionary statements
P302+P352 IF ON SKIN: Wash with plenty of water.

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures
TALC 20-50%
CAS number: 14807-96-6
E C number: 238-877-9
Classification (67/548/EC or 1999/45/EC)
Not Classified –
EPOXY RESIN (Number average MW <= 700) 20-50%
CAS number: 25068-38-6 **E C number:** 500-033-5 **R E ACH registration number:** 01-2119456619-26-XXXX
Classification (67/548/E EC or 1999/45/E C)
Skin Irrit. 2 - H315 R43 Xi;R36/38 N;R51/53
Eye Irrit. 2 - H319
Skin Sens. 1 - H317
Aquatic Chronic 2 - H411

TITANIUM DIOXIDE 5-10%
CAS number: 13463-67-7 **E C number:** 236-675-5 **R E ACH registration number:** 01-2119489379-17-XXXX

Classification (67/548/E EC or 1999/45/E C)
Not Classified –

PHENOL >0.5 <1.0%
CAS number: 108-95-2 **E C number:** 203-632-7 **R E ACH registration number:** 01-2119471329-32-XXXX
Classification (67/548/E E C or 1999/45/E C)
Acute Tox. 3 - H301 Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22
Acute Tox. 3 - H311
Acute Tox. 3 - H331
Skin Corr. 1B - H314
Muta. 2 - H341
STOTRE 2 - H373
The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 1

SECTION 4: First aid measures

4.1. Description of first aid measures
Inhalation
Remove affected person from source of contamination. Get medical attention if any discomfort continues.
Ingestion
DO NOT induce vomiting. Get medical attention immediately.
Skin contact
Wash skin thoroughly with soap and water.
Eye contact
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least
15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

Inhalation

No specific symptoms known.

Ingestion

May cause discomfort.

S kin contact

Causes skin irritation. May cause sensitisation or allergic reactions in sensitive individuals.

E ye contact

Irritating to eyes.

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

Notes for the doctor

No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

Unsuitable extinguishing media

DO NOT use water if avoidable.

5.2. Special hazards arising from the substance or mixture

Specific hazards

No unusual fire or explosion hazards noted.

Hazardous combustion products

Oxides of carbon. Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting

No specific firefighting precautions known.

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

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions

Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections

For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid contact with skin. Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

No special storage precautions required.

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

TALC

Long-term exposure limit (8-hour TWA): WEL 1 mg/m3 respirable dust

TITANIUM DIOXIDE

Long-term exposure limit (8-hour TWA): WEL 10 mg/m3 inhalable dust
Long-term exposure limit (8-hour TWA): WEL 4 mg/m3 respirable dust

PHE NOL

Long-term exposure limit (8-hour TWA): WEL 2 ppm 7.8 mg/m3
Short-term exposure limit (15-minute): WEL 4 ppm 16 mg/m3
Sk
WEL = Workplace Exposure Limit
Sk = Can be absorbed through the skin.

EPOXY RESIN (Number average MW <= 700) (CAS : 25068-38-6)

DNEL Industry - Inhalation; Long term systemic effects: 12.25 mg/m3
Industry - Inhalation; Short term systemic effects: 12.25 mg/m3
Industry - Dermal; Long term systemic effects: 8.33 mg/kg/day
Industry - Dermal; Short term systemic effects: 8.33 mg/kg/day
REACH dossier information
PNEC - Fresh water; 0.006 mg/l
- Marine water; 0.0006 mg/l
- Intermittent release; 0.018 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 0.996 mg/kg
- Sediment (Marine water); 0.0996 mg/kg
- Soil; 0.196 mg/kg
REACH dossier information

TITANIUM DIOXIDE (CAS : 13463-67-7)

DNEL Industry - Inhalation; Long term systemic effects: 10 mg/m3
REACH dossier information
PNEC - Fresh water; 0.127 mg/l
- Marine water; 1.0 mg/l
- Intermittent release; 0.61 mg/l
- STP; 100 mg/l
- Sediment (Freshwater); 1000 mg/kg
- Sediment (Marine water); 100 mg/kg
- Soil; 100 mg/kg
REACH dossier information

PHE NOL (CAS : 108-95-2)

DNEL Industry - Inhalation; Long term systemic effects: 8 mg/m3
Industry - Inhalation; Short term local effects: 16 mg/m3
Industry - Dermal; Long term systemic effects: 1.23 mg/m3
REACH dossier information
PNEC - Fresh water; 0.0077 mg/l
- Marine water; 0.00077 mg/l
- Intermittent release; 0.031 mg/l
- STP; 2.1 mg/l
- Sediment (Freshwater); 0.0915 mg/kg
- Sediment (Marine water); 0.00915 mg/kg
- Soil; 0.136 mg/kg
REACH dossier information

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
No specific ventilation requirements.
E ye/face protection
Wear eye protection.
Hand protection
Wear protective gloves.
Hygiene measures
Wash promptly if skin becomes contaminated. Wash hands at the end of each work shift and before eating, smoking and using the toilet.
Respiratory protection
No specific recommendations.
Environmental exposure controls
Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties
Appearance
Solid. Coloured paste.
Colour
Green. White.
Odour
Characteristic. Sulphur.
Odour threshold
Not determined.
pH
Not applicable.
Melting point
Not applicable.
Initial boiling point and range
>35°C @ 760 mm Hg
F lash point
>100°C
Evaporation rate
Not applicable.
Evaporation factor
Not applicable.
Flammability (solid, gas)
Not determined.
Upper/lower flammability or explosive limits
Not determined.
Vapour pressure
<500 Pa @ 20°C
Vapour density
Not applicable.
R elative density
~ 2
Bulk density
Not applicable.
Solubility (ies)
Insoluble in water
Partition coefficient
Not determined.
Auto-ignition temperature
Not determined.
Decomposition Temperature
Not determined.
Viscosity

Not applicable.

Explosive properties

Not applicable.

9.2. Other information

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

10.4. Conditions to avoid

Avoid contact with the following materials: Acids.

10.5. Incompatible materials

Materials to avoid

Acids. Amines.

10.6. Hazardous decomposition products

Oxides of carbon. Oxides of nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg)

10,101.01010101

Acute toxicity - dermal

ATE dermal (mg/kg)

30303.03030303

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

303.03030303

S kin sensitisation

Sensitising.

Ingestion

May cause discomfort.

S kin contact

Irritating to skin. May cause sensitisation by skin contact.

E ye contact

Irritation of eyes and mucous membranes.

Route of entry

Skin and/or eye contact.

Toxicological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

11,400

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

1200

Species

Rat

PHENOL

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)
650
Species
Rat
Acute toxicity - dermal
Acute toxicity dermal (LD50 mg/kg)
0.625
Species
Rat
Acute toxicity - inhalation
ATE inhalation (vapours mg/l)
3.0
Carcinogenicity
IAR C carcinogenicity
IARC Group 3 Not classifiable as to its carcinogenicity to humans.

SECTION 12: Ecological Information

12.1. Toxicity
Ecological information on ingredients.
EPOXY RESIN (Number average MW <= 700)
Acute toxicity - fish
LC50, 96 hours: 2 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates
EC_{50}, 48 hours: 1.8 mg/l, Daphnia magna
Acute toxicity - aquatic plants
EC_{50}, 72 hours: 11 mg/l, Freshwater algae EC_{50}, 96 hours: 220 mg/l, Scenedesmus subspicatus
Chronic toxicity - aquatic invertebrates
NOEC, 21 days: 0.3 mg/l, Daphnia magna
PHE NOL
Acute toxicity - fish
LC50, 96 hours: 67.5 mg/l, Pimephales promelas (Fat-head Minnow)
12.2. Persistence and degradability
Persistence and degradability
The product is not biodegradable.
Ecological information on ingredients.
E POXY R E S IN (Number average MW <= 700)
Biodegradation
- : 28 days
12.3. Bio accumulative potential
No data available on bioaccumulation.
Partition coefficient
Not determined.
Ecological information on ingredients.
E POXY R E S IN (Number average MW <= 700)
May accumulate in soil and water systems. BCF: 100 - 3000,
Partition coefficient
log Pow: 3.242 Estimated Value
12.4. Mobility in soil
Mobility
The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile.
Ecological information on ingredients .
E POXY R E S IN (Number average MW <= 700)
Mobility
Semi-mobile.
Adsorption/desorption coefficient
Soil - Koc: 1800 - 4400 @ °C Estimated Value
Henry's law cons tant

4.93E-05 Pa m3/mol @ 25°C

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

E POXY R E S IN (Number average MW <= 700)

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

Dispose of waste via a licensed waste disposal contractor.

SECTION 14: Transport information

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

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class (es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MAR POL73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory information

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

E U 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).

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Risk phrases in full

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

R34 Causes burns.
R36/38 Irritating to eyes and skin.
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.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R68 Possible risk of irreversible effects.

Hazard statements in full

H301 Toxic if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Disclaimer

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

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