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DOCUMENT GROUP:	METAL/REPAIR/SYSTEMS	VERSION REF:	11635/UPS19060SG
DATE:	1 <sup>ST</sup> FEBRUARY 2018	VERSION NO:	2.00
REVISION DATE:	1 <sup>ST</sup> FEBRUARY 2019	SUPERSEDES DATE:	1 <sup>ST</sup> NOVEMBER 2016

## MATERIAL SAFETY DATA SHEET

### UPS 19060 SG STICK GRADE METAL

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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

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

UN number Not applicable.

UN proper shipping name Not applicable.

Transport hazard class (es ) No transport warning sign required.

Packing group Not applicable.

Environmentally hazardous substance/marine pollutant, No.

Special precautions for user; Not applicable.

Transport in bulk according to Annex II of MAR POL73/78 and the IBC Code Not applicable.

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## SECTION 1: Identification of Substance/ Preparation and Company

- 1.1 **Product identifier**  
UPS 19060 SG STICK GRADE METAL
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**  
Epoxy Resin & Polymercaptan Curing Agent
- 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](mailto: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 C 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

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.

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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.

P501 Dispose of contents/container in accordance with national regulations.

**Contains EPOXY RESIN (Number average MW  $\leq$  700 )**

**Supplementary precautionary statements**

P264 Wash contaminated skin thoroughly after handling.

P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

### 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/E E C or 1999/45/E C)

Not Classified -

EPOXY RESIN (Number average MW  $\leq$  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 E C or 1999/45/E C)

Skin Irritation. 2 - H315 R43 Xi; R36/38 N; R51/53

Eye Irritation. 2 - H319

Skin Sens. 1 - H317

Aquatic Chronic 2 - H411

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 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.

##### E ye 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.

##### Skin 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

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## **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**

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## Occupational exposure limits

### TALC

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup> respirable dust

WEL = Workplace Exposure Limit

### EPOXY RES IN (Number average MW ≤ 700 ) (CAS : 25068-38-6)

DNEL Industry - Inhalation; Long term systemic effects: 12.25 mg/m<sup>3</sup>

Industry - Inhalation; Short term systemic effects: 12.25 mg/m<sup>3</sup>

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

## 8.2. Exposure controls

### Protective equipment

#### Appropriate engineering controls

No specific ventilation requirements.

#### Eye/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

Grey. Black.

#### Odour

Characteristic. Sulphur.

#### Odour threshold

Not determined.

#### pH

Not applicable.

#### Melting point

Not applicable.

#### Initial boiling point and range

>35°C @ 760 mm Hg

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**Flash 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.

**Relative density**

2.25

**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**

S kin sensitisation



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Sensitising.

**Ingestion**

May cause discomfort.

**Skin contact**

Irritating to skin. May cause sensitisation by skin contact.

**Eye contact**

Irritation of eyes and mucous membranes.

**Route of entry**

Skin and/or eye contact.

**Toxicological information on ingredients.**

EPOXY RESIN (Number average MW  $\leq$  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

**SECTION 12: Ecological Information**

**12.1. Toxicity**

**Ecological information on ingredients.**

EPOXY RESIN (Number average MW  $\leq$  700 )

Acute toxicity - fish

LC50, 96 hours: 2 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC<sub>50</sub>, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC<sub>50</sub>, 72 hours: 11 mg/l, Freshwater algae EC<sub>50</sub>, 96 hours: 220 mg/l, Scenedesmus subspicatus

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 0.3 mg/l, Daphnia magna

**12.2. Persistence and degradability**

**Persistence and degradability**

The product is not biodegradable.

**Ecological information on ingredients.**

EPOXY RESIN (Number average MW  $\leq$  700 )

**Biodegradation**

- : 28 days

**12.3. Bio accumulative potential**

No data available on bioaccumulation.

**Partition coefficient**

Not determined.

**Ecological information on ingredients.**

EPOXY RESIN (Number average MW  $\leq$  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**

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The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile.

**Ecological information on ingredients.**

**EPOXY RESIN (Number average MW  $\leq$  700 )**

**Mobility**

Semi-mobile.

**Adsorption/desorption coefficient**

Soil Koc: 1800 - 4400 @ °C Estimated Value

**Henry's law constant**

4.93E-05 Pa m<sup>3</sup>/mol @ 25°C

**12.5. Results of PBT and vP vB assessment**

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

**Ecological information on ingredients .**

**EPOXY RESIN (Number average MW  $\leq$  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



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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**

#### **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.

H412 Harmful to aquatic life with long lasting effects.

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