

# SAFETY DATA SHEET

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issue Date 16-Oct-2017

Revision Date 16-Oct-2017

Version 1

## Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Name** Amethyst A20-HYB Black

Contains Proprietary Acrylic Ester Derivative, Biphenyl-2-ol, ethoxylated, esters with acrylic acid, Reactive Acrylic Acid Ester, Acrylic Acid Ester, Proprietary Acrylic Ester Derivative, Urethane Acrylate, Black Pigment, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide

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

**Recommended Use** Digital Printing

**Uses advised against** No information available

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer** NUTEC DIGITAL INK (PTY) LTD. 1 CLIFFORD STREET OTTERY, 7800 SOUTH AFRICA For further information, please contact

**Contact Point** Regulatory Department **1.4. Emergency telephone number**

Emergency Telephone New Zealand: **0800 POISON** (0800 764 766)

**Suppliers Details**  
Hitech-Ink  
Unit 4 / 231 Annex Road  
Middleton 8025  
Ph 03 666 0100

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

**Regulation (EC) No 1272/2008**

Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

**Classification according to Directive 67/548/EEC or 1999/45/EC**

*Full text of R-phrases: see section 16*

### **Hazard symbols**

C - Corrosive

### **R-code(s)**

Xn;R22 - C;R34 - R43 - R51/53

**2.2. Label elements Product identifier**

Contains Proprietary Acrylic Ester Derivative, Biphenyl-2-ol, ethoxylated, esters with acrylic acid, Reactive Acrylic Acid Ester, Acrylic Acid Ester, Proprietary Acrylic Ester Derivative, Urethane Acrylate, Black Pigment, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide

**Signal word**

Danger

**Hazard statements**

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

Contains Propoxylated neopentyl glycol, Trimethylolpropane triacrylate, Oxybis(methyl-2,1-ethanediyl diacrylate, 1,6-Hexanediol diacrylate EUH208 - May produce an allergic reaction

**Precautionary Statements - EU (§28, 1272/2008)**

P321 - Specific treatment (see supplemental instructions on the administration of antidotes on this label)

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

**2.3. Other hazards**

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

**3.1 Substances**

Chemical Name	EC No	CAS No	Weight-%	Classification according to Directive 67/548/EEC or 1999/45/EC	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Proprietary Acrylic ester derivative	Listed	-	<25	Xn; R21/22	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318)	No data available
Biphenyl-2-ol, ethoxylated, esters with acrylic acid	-	72009-86-0	<25	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	No data available

Reactive Acrylic Acid Ester	-	XX-XX-X	<20	-	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319) STOT SE 3 (H335) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)	No data available
Acrylic Acid Ester	Listed	-	<5	Xn;R22 - C;R34 R43 - R52/53	Acute Tox. 4 (H302) Skin Corr. 1A (H314) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	No data available
phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide	423-340-5	162881-26-7	<10	R43 R53	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available
Proprietary Acrylic Ester Derivative	Listed	-	<10	Xi;R36/37/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
Urethane Acrylate	289-200-9	86178-38-3	<10	Xi;R36/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	278-355-8	75980-60-8	<5	Repr.Cat.3; R62 R43 N;51/53	Skin Sens. 1 (H317) Repr. 2 (H361) Aquatic Chronic 2 (H411)	No data available
Black Pigment	Listed	-	<5	-	No data available	No data available
Hydroxy ketone	-	71868-15-0	<5	-	Aquatic Chronic 2 (H411)	No data available
Trimethylolpropane triacrylate	239-701-3	15625-89-5	<1	Xi; R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	No data available
Propoxylated neopentyl glycol	-	84170-74-1	<10	Xi; R36/37/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335)	No data available
Oxybis(methyl-2,1-ethanediyl diacrylate	260-754-3	57472-68-1	<10	Xi;R41,38 R43	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317)	No data available
1,6-Hexanediol diacrylate	235-921-9	13048-33-4	<10	Xi; R36/38 R43	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	No data available

Full text of R-phrases: see section 16

Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General advice</b>	Immediate medical attention is required.
<b>Inhalation</b>	Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.
<b>Skin contact</b>	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash off immediately with soap and plenty of water.
<b>Eye contact</b>	Immediate medical attention is required. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
<b>Ingestion</b>	Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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

<b>Symptoms</b>	No information available.
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Note to physicians</b>	Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.
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## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Dike fire-control water for later disposal. Dry chemical, CO<sub>2</sub>, water spray or regular foam. Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.

#### **Unsuitable extinguishing media**

Do not scatter spilled material with high pressure water streams

### 5.2. Special hazards arising from the substance or mixture

The product causes burns of eyes, skin and mucous membranes Thermal decomposition can lead to release of irritating and toxic gases and vapors In the event of fire and/or explosion do not breathe fumes

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### **Personal precautions**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See section 12 for additional ecological information.

### 6.3. Methods and material for containment and cleaning up

#### **Methods for containment**

Prevent dust cloud.

#### **Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Avoid creating dust. Soak up with inert absorbent material. Dam up. After cleaning, flush away traces with water.

### 6.4. Reference to other sections

See section 8 for more information. See section 13 for more information.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### **Advice on safe handling**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems.

#### **General Hygiene Considerations**

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

### 7.2. Conditions for safe storage, including any incompatibilities

#### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

#### **Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Black Pigment	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>	-
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Black Pigment	-	TWA: 3.5 mg/m <sup>3</sup>	-	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup>
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Black Pigment	-	-	TWA: 4.0 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 3.5 mg/m <sup>3</sup>	TWA: 3.5 mg/m <sup>3</sup> STEL: 7 mg/m <sup>3</sup>

**Derived No Effect Level (DNEL)** No information available.

**Predicted No Effect Concentration (PNEC)** No information available.

### 8.2. Exposure controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

### Personal protective equipment

**Eye/face protection**

Tight sealing safety goggles. Face protection shield.

**Skin and body protection**

Suitable protective clothing. Gloves made of plastic or rubber. Rubber boots. Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant clothing such as gloves, apron, boots or whole bodysuits made from neoprene, as appropriate.

**Environmental exposure controls** No information available.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	liquid		
<b>Appearance</b>	Liquid	<b>Odor</b>	Characteristic
<b>Color</b>	black	<b>Odor threshold</b>	No information available
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH		No information available	
Melting point / freezing point			
Boiling point / boiling range	> 200 °C / °F		
Flash point	100 °C / °F		
Evaporation rate			
Flammability (solid, gas)		No information available	
Flammability Limit in Air		No information available	
Upper flammability limit:			
Lower flammability limit:			
Vapor pressure			
Vapor density		No information available	
Relative density	Immiscible in water	No information available	
Water solubility		No information available	
Solubility(ies)		No information available	
Partition coefficient		No information available	
Autoignition temperature		No information available	
Decomposition temperature		No information available	
Kinematic viscosity		No information available	
Dynamic viscosity			

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No information  
available

No information  
available  
No information  
available  
No information  
available

**Explosive properties** Not an explosive

**Oxidizing properties** Not applicable

**9.2. Other information**

**Softening point** No information available

**Molecular weight** No information available

**VOC Content (%)** No information available

**Density** No information available

**Bulk density** No information available

## Section 10: STABILITY AND REACTIVITY

### **10.1. Reactivity**

No data available.

### **10.2. Chemical stability**

Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None. Sensitivity  
to Static Discharge None.

### **10.3. Possibility of hazardous reactions**

#### **Possibility of Hazardous Reactions**

None under normal processing.

### **10.4. Conditions to avoid**

Exposure to air or moisture over prolonged periods.

### **10.5. Incompatible materials**

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

**10.6. Hazardous decomposition products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Section 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects****Acute toxicity****Product Information**

Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** No data available.

**Eye contact** No data available.

**Skin contact** No data available.

**Ingestion** No data available.

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 529.00 mg/kg

**ATEmix (dermal)** 1,114.00 mg/kg

**Unknown acute toxicity**

82.8752 % of the mixture consists of ingredient(s) of unknown toxicity.

42.7252 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

59.2252 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

81.1252 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

82.8752 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

78.2252 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary Acrylic Ester Derivative	> 215-464 mg/kg ( Rat )	= 519 mg/kg ( Rabbit )	> 776 ppm ( Rat ) 1 h
Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	>5000 mg/kg	>2000 mg/kg	
Carbon Black	> 15400 mg/kg ( Rat )	> 3 g/kg ( Rabbit )	
Trimethylolpropane triacrylate	= 5190 µL/kg ( Rat )	= 5000 mg/kg ( Rabbit )	
Oxybis(methyl-2,1-ethanediyl diacrylate	= 4600 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	
1,6-Hexanediol diacrylate	= 5 g/kg ( Rat )	= 3600 µL/kg ( Rabbit )	
2-phenoxyethyl acrylate	= 4660 µL/kg ( Rat )	= 2540 µL/kg ( Rabbit )	

**Skin corrosion/irritation** No information available.

**Serious eye damage/eye irritation** No information available.

**Sensitization** No information available.

**Germ cell mutagenicity** No information available.

**Carcinogenicity** No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organ Effects** Respiratory system, Eyes, Lymphatic System.



Aspiration hazard No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Unknown aquatic toxicity 33.4803 % of the mixture consists of component(s) of unknown hazards to the aquatic environment  
33.4803 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Biphenyl-2-ol, ethoxylated, esters with acrylic acid	ErC50 9.791mg/L ,72hr, Pseudokirchneriella subcapitata	LC50 1.514mg/L 96hr, Oryzias latipes	-
Black Pigment	10000 mg/l / 3 d scenedesmus subspicatus	1000 mg/l / 96 h Brachydanio rerio)	5600: 24 h Daphnia magna mg/L EC50

### 12.2. Persistence and degradability

No information available.

### 12.3. Bioaccumulative potential No

information available.

### 12.4. Mobility in soil

#### Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment No

information available.

### 12.6. Other adverse effects

No information available

## Section 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste from residues/unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** Do not reuse container.

**Other Information** Waste codes should be assigned by the user based on the application for which the product was used.

## Section 14: TRANSPORT INFORMATION

### IMDG

**14.1 UN/ID no** UN3082

**14.2 Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s.

**14.3 Hazard Class** 9

**14.4 Packing Group** III

**Description** UN3082, Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate monomer, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide), 9, III

14.5 Marine pollutant Not applicable  
 Environmental hazard Yes  
 14.6 Special Provisions 274, 335  
 EmS-No F-A, S-F  
 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available  
RID

14.1 UN/ID no UN3082  
 14.2 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.  
 14.3 Hazard Class 9  
 14.4 Packing Group III  
 Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate monomer, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide), Environmentally Hazardous, 9, III  
 14.5 Environmental hazard Yes  
 14.6 Special Provisions None  
 Classification code M6

ADR

14.1 UN/ID no UN3082  
 14.2 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.  
 14.3 Hazard Class 9  
 Labels 9  
 14.4 Packing Group III  
 Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate monomer, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide), Environmentally Hazardous, 9, III, (E)  
 14.5 Environmental hazard Yes  
 14.6 Special Provisions 274, 335, 601, 375  
 Classification code M6  
 Tunnel restriction code (E)

IATA

14.1 UN/ID no UN3082  
 14.2 Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.  
 14.3 Hazard Class 9  
 14.4 Packing Group III  
 Description UN3082, Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate monomer, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide), 9, III  
 14.5 Environmental hazard Yes  
 14.6 Special Provisions A97, A158, A197  
 ERG Code 9L

**Section 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****France****Occupational Illnesses (R-463-3, France)**

Chemical Name	French RG number	Title
Black Pigment	RG 16, RG 16bis	-

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**Authorizations and/or restrictions on use:**

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

#### International Inventories

All of the components in the product are on the following Inventory lists No information available.

#### 15.2. Chemical safety assessment

No information available

### Section 16: OTHER INFORMATION

#### Key or legend to abbreviations and acronyms used in the safety data sheet

##### Full text of R-phrases referred to under sections 2 and 3

R22 - Harmful if swallowed  
 R43 - May cause sensitization by skin contact  
 R53 - May cause long-term adverse effects in the aquatic environment  
 R62 - Possible risk of impaired fertility  
 R34 - Causes burns  
 R21/22 - Harmful in contact with skin and if swallowed  
 R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
 R36/37/38 - Irritating to eyes, respiratory system and skin  
 R36/38 - Irritating to eyes and skin  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

##### Full text of H-Statements referred to under section 3

H315 - Causes skin irritation  
 H319 - Causes serious eye irritation  
 H317 - May cause an allergic skin reaction  
 H412 - Harmful to aquatic life with long lasting effects  
 H413 - May cause long lasting harmful effects to aquatic life  
 H301 - Toxic if swallowed  
 H311 - Toxic in contact with skin  
 H318 - Causes serious eye damage  
 H411 - Toxic to aquatic life with long lasting effects  
 H302 - Harmful if swallowed  
  
 H314 - Causes severe skin burns and eye damage  
 H361 - Suspected of damaging fertility or the unborn child if inhaled  
 H335 - May cause respiratory irritation  
 H401 - Toxic to aquatic life

**Legend SVHC:** Substances of Very High Concern for Authorization:

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

**Issue Date** 16-Oct-2017

**Revision Date** 16-Oct-2017

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<b>Revision Note</b>	Not applicable.
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**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**End of Safety Data Sheet**