

# 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 22-May-2018

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Version 1

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

### 1.1. Product identifier

**Product Name** Amethyst A20-RIG Cyan

Contains Urethane Acrylate, Proprietary Acrylic Ester Derivative, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide, Multifunctional Polyester Acrylate, 2-phenoxyethyl acrylate, 2-Benzyl-2-dimethylamino-1-(4-morpholinophenyl)butan-1-one

### 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**

<b>Skin corrosion/irritation</b>	Category 2 - (H315)
<b>Serious eye damage/eye irritation</b>	Category 2 - (H319)
<b>Skin sensitization</b>	Category 1 - (H317)
<b>Reproductive Toxicity</b>	Category 1B - (H360)
<b>Specific target organ toxicity (single exposure)</b>	Category 3 - (H335)
<b>Chronic aquatic toxicity</b>	Category 3 - (H412)

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

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

### 2.2. Label elements **Product identifier**

Contains Urethane Acrylate, Proprietary Acrylic Ester Derivative, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide, Multifunctional Polyester Acrylate, 2-phenoxyethyl acrylate, 2-Benzyl-2-dimethylamino-1-(4-morpholinophenyl)butan-1-one

**Signal word**

Danger

**Hazard statements**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H360 - May damage fertility or the unborn child

H412 - Harmful to aquatic life with long lasting effects

May cause respiratory irritation. May cause drowsiness or dizziness

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

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P280 - Wear eye protection/ face protection

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

P308 + P313 - IF exposed or concerned: Get medical advice/attention

P202 - Do not handle until all safety precautions have been read and understood

P201 - Obtain special instructions before use

**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 Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Urethane Acrylate	289-200-9	86178-38-3	<70	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
Proprietary Acrylic Ester Derivative	Listed	-	<20	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Multifunctional Amine Acrylate	-	67906-98-3	<10	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide	423-340-5	162881-26-7	<10	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available

Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	278-355-8	75980-60-8	<5	Skin Sens. 1 (H317) Repr. 2 (H361) Aquatic Chronic 2 (H411)	No data available
Multifunctional Polyester Acrylate	239-701-3	15625-89-5	<5	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	No data available
2-phenoxyethyl acrylate	256-360-6	48145-04-6	<5	Eye Dam. 1 (H318) Skin Sens. 1 (H317)	No data available
				Aquatic Chronic 2 (H411)	
1,6-Hexanediol diacrylate	235-921-9	13048-33-4	<10	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	No data available
Propoxylated neopentyl glycol	-	84170-74-1	<10	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	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317)	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

**Inhalation** Remove to fresh air.

**Skin contact** Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

**Ingestion** Clean mouth with water and drink afterwards plenty of water.

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

**Symptoms** No information available.

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

**Note to physicians** Treat symptomatically.

## Section 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

#### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable extinguishing media**

No information available

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

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

### 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**

Ensure adequate ventilation, especially in confined areas.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

Collect spillage.

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

#### **Methods for containment**

Prevent further leakage or spillage if safe to do so.

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

Take up mechanically, placing in appropriate containers for disposal.

### 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**

Ensure adequate ventilation, especially in confined areas.

#### **General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice.

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

#### **Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place.

#### **Incompatible materials**

None known based on information supplied.

### 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

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

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

### 8.2. Exposure controls

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

#### Personal protective equipment

**Eye/face protection** Tight sealing safety goggles. **Skin and body protection** Suitable protective clothing.

**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>Odor</b>	Characteristic
<b>Appearance</b>	Liquid	<b>Odor threshold</b>	No information available
<b>Color</b>	Cyan		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point / freezing point		No information available
Boiling point / boiling range	100 °C / 212 °F	No information available
Flash point	> 100 °C / > 212 °F	No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		No information available
Upper flammability limit:		No information available
Lower flammability limit:		No information available
Vapor pressure		No information available
Vapor density		No information available
Relative density		No information available
Water solubility	Immiscible in water	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		No information available
Explosive properties	Not an explosive	
Oxidizing properties	Not applicable	

### 9.2. Other information

<b>Softening point</b>	No information available
<b>Molecular weight</b>	No information available
<b>VOC Content (%)</b>	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

None

known.

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

None under normal use conditions.

## 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)** 8,638.00

**ATEmix (dermal)** 31,592.00

#### **Unknown acute toxicity**

93.0345051 % of the mixture consists of ingredient(s) of unknown toxicity.

73.2320051 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

74.7320051 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

93.0345051 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

93.0345051 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

90.1345051 % 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	= 4890 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	

Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	>5000 mg/kg	>2000 mg/kg	
Multifunctional Polyester Acrylate	= 5190 µL/kg ( Rat )	= 5000 mg/kg ( Rabbit )	
2-phenoxyethyl acrylate	= 4660 µL/kg ( Rat )	= 2540 µL/kg ( Rabbit )	
1,6-Hexanediol diacrylate	= 5 g/kg ( Rat )	= 3600 µL/kg ( Rabbit )	
Oxybis(methyl-2,1-ethanediyl diacrylate	= 4600 mg/kg ( Rat )	> 2 g/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.

**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Unknown aquatic toxicity 74.78471 % of the mixture consists of component(s) of unknown hazards to the aquatic environment  
74.78471 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Proprietary Acrylic Ester Derivative	72 hours: 4.2 mg/l, Algae	-	-

**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**

regulations.

Disposal should be in accordance with applicable regional, national and local laws and

**Contaminated packaging**

Improper disposal or reuse of this container may be dangerous and illegal.

**Section 14: TRANSPORT INFORMATION****IMDG**

<b>14.1 UN/ID no</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Environmentally hazardous substance, liquid, n.o.s.
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate monomer, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide), 9, III, Marine Pollutant
<b>14.5 Marine pollutant</b>	Not applicable
<b>14.6 Special Provisions</b>	274, 335
<b>EmS-No</b>	F-A, S-F
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available

**RID**

<b>14.1 UN/ID no</b>	UN3082
<b>14.2 Proper Shipping Name</b>	Not regulated
<b>14.3 Hazard Class</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	&UN3082, & (<TNR00012>), 9, III
<b>14.5 Environmental hazard</b>	Not applicable
<b>14.6 Special Provisions</b>	None



Classification code	M6
<b>ADR</b>	
14.1 UN/ID no	UN3082
14.2 Proper Shipping Name	Not regulated
14.3 Hazard Class	9
Labels	9
14.4 Packing Group	III
Description	&UN3082, & (<TNA00012>), 9, III, (E)
14.5 Environmental hazard	Not applicable
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	Not applicable
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)

**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****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**

No information available

**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  
H318 - Causes serious eye damage  
H411 - Toxic to aquatic life with long lasting effects  
H335 - May cause respiratory irritation  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects  
H225 - Highly flammable liquid and vapor  
H361 - Suspected of damaging fertility or the unborn child if inhaled  
H302 - Harmful if swallowed  
H312 - Harmful in contact with skin  
H332 - Harmful if inhaled  
H314 - Causes severe skin burns and eye damage  
H226 - Flammable liquid and vapor

**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** 22-May-2018

**Revision Date** 22-May-2018

**Revision Note** Not applicable.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**End of Safety Data Sheet**