

# 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 01-Feb-2018

Revision Date 01-Feb-2018

Version 1

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

### 1.1. Product identifier

Product Name Amethyst A50-HYB-OC Magenta

Contains Acrylic Acid Ester, Isobornyl acrylate monomer, Reactive Acrylic Acid Ester, Urethane Acrylate, Proprietary Acrylic Ester Derivative, Multifunctional Amine Acrylate, Morpholine, 4-(1-oxo-2-propenyl)-, 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 During normal opening times: +27 21 763 6990  
24 Hours: +27 83 326 0774

## Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Oral	Category 4 - (H302)
Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 2 - (H373)
Chronic aquatic toxicity	Category 3 - (H412)

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;R48/22 - Xn;R22 - C;R34 - Xi;R41 - R43 - R51/53

### 2.2. Label elements

#### Product identifier

Contains Acrylic Acid Ester, Isobornyl acrylate monomer, Reactive Acrylic Acid Ester, Urethane Acrylate, Proprietary Acrylic Ester Derivative, Multifunctional Amine Acrylate, Morpholine, 4-(1-oxo-2-propenyl)-, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide

**Signal word**

Danger

**Hazard statements**

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure

H412 - Harmful to aquatic life with long lasting effects

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

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

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

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

P314 - Get medical advice/attention if you feel unwell

P501 - Dispose of contents/container to industrial incineration plant

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

**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
Acrylic Acid Ester	Listed	-	<30	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
Morpholine, 4-(1-oxo-2-propenyl)-	418-140-1	5117-12-4	<30	Xn; R22-48/22 Xi; R41 R43	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	No data available
Proprietary Acrylic Ester Derivative	Listed	-	<20	Xi; R36/37/38. N; R51/53.	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Reactive Acrylic Acid Ester	-	XX-XX-X	<15	-	Skin Irrit. 2 (H315) Eye Irrit. 2A (H319)	No data available

					STOT SE 3 (H335) Aquatic Acute 2 (H401) Aquatic Chronic 2 (H411)	
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
Urethane Acrylate	289-200-9	86178-38-3	<10	Xi;R36/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
Proprietary Acrylic Ester Derivative	Listed	-	<10	Xi;R36/37/38	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
Multifunctional Amine Acrylate	-	67906-98-3	<5	Xi; R36/38	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	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-ethanediy) 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

**General advice**

Immediate medical attention is required.

**Inhalation**

Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Skin contact**

Immediate medical attention is required. Wash off immediately with soap and plenty of

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	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>	Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. 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**

**Symptoms** No information available.

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

**Note to physicians** 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.

### **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 for fire fighting if necessary.

### **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**

**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** Rubber boots. Suitable protective clothing. Gloves made of plastic or rubber. 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** Local authorities should be advised if significant spillages cannot be contained. Prevent product from entering drains.

## 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>	Magenta		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>		No information available
<b>Melting point / freezing point</b>		
<b>Boiling point / boiling range</b>	> 200 °C / °F	
<b>Flash point</b>	100 °C / °F	
<b>Evaporation rate</b>		No information available
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit:</b>		No information available
<b>Lower flammability limit:</b>		No information available
<b>Vapor pressure</b>		No information available
<b>Vapor density</b>		No information available
<b>Relative density</b>		
<b>Water solubility</b>	Immiscible in water	
<b>Solubility(ies)</b>		No information available
<b>Partition coefficient</b>		
<b>Autoignition temperature</b>		
<b>Decomposition temperature</b>		No information available
<b>Kinematic viscosity</b>		No information available
<b>Dynamic viscosity</b>		No information available
<b>Explosive properties</b>	Not an explosive	
<b>Oxidizing properties</b>	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
<b>Density</b>	No information available
<b>Bulk density</b>	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.

<b>Inhalation</b>	No data available.
<b>Eye contact</b>	No data available.
<b>Skin contact</b>	No data available.
<b>Ingestion</b>	No data available.

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

**ATEmix (oral)** 827.00 mg/kg

**Unknown acute toxicity**

92.157102 % of the mixture consists of ingredient(s) of unknown toxicity.

29.632102 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

57.444602 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

92.157102 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

92.157102 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

89.257102 % 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	
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, Skin, Central nervous system.

**Aspiration hazard** No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Unknown aquatic toxicity 41.2812 % of the mixture consists of component(s) of unknown hazards to the aquatic environment  
41.2812 % 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** 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



<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>Environmental hazard</b>	Yes
<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>	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, & (<TNR00012>), 9, III
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Provisions</b>	None
<b>Classification code</b>	M6

**ADR**

<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>Labels</b>	9
<b>14.4 Packing Group</b>	III
<b>Description</b>	&UN3082, & (<TNA00012>), 9, III, (E)
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Provisions</b>	274, 335, 601, 375
<b>Classification code</b>	M6
<b>Tunnel restriction code</b>	(E)

**IATA**

<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
<b>14.5 Environmental hazard</b>	Yes
<b>14.6 Special Provisions</b>	A97, A158, A197
<b>ERG Code</b>	9L

<b>Section 15: REGULATORY INFORMATION</b>
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**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 contains one or more substance(s) 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  
 R41 - Risk of serious damage to eyes  
 R53 - May cause long-term adverse effects in the aquatic environment  
 R62 - Possible risk of impaired fertility  
 R11 - Highly flammable  
 R67 - Vapors may cause drowsiness and dizziness  
 R63 - Possible risk of harm to the unborn child  
 R38 - Irritating to skin  
 R65 - Harmful: may cause lung damage if swallowed  
 R34 - Causes burns  
 R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
 R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed  
 R36/37/38 - Irritating to eyes, respiratory system and skin  
 R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment  
 R36/38 - Irritating to eyes and skin  
 R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

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

H315 - Causes skin irritation  
 H361d - Suspected of damaging the unborn child  
 H336 - May cause drowsiness or dizziness  
 H373 - May cause damage to organs through prolonged or repeated exposure if inhaled  
 H304 - May be fatal if swallowed and enters airways  
 H225 - Highly flammable liquid and vapor  
 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  
 H302 - Harmful if swallowed  
 H318 - Causes serious eye damage  
 H335 - May cause respiratory irritation  
 H400 - Very toxic to aquatic life  
 H410 - Very toxic to aquatic life with long lasting effects  
 H314 - Causes severe skin burns and eye damage  
 H361 - Suspected of damaging fertility or the unborn child if inhaled  
 H411 - Toxic to aquatic life with long lasting effects  
 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** 01-Feb-2018

**Revision Date** 01-Feb-2018

**Revision Note** Not applicable.

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

**End of Safety Data Sheet**