

# 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 03-Jun-2015

Revision Date 03-Jun-2015

Version 1

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

### 1.1. Product identifier

Product Name Amethyst A50-UV-MPX Magenta

Contains N-Vinylcaprolactam, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Oxybis(methyl-2,1-ethanediy) diacrylate, Propoxylated neopentyl glycol

### 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

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitization	Category 1B - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Specific target organ toxicity (repeated exposure)	Category 1 - (H372)
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

Xn - Harmful

N - Dangerous for the environment

### R-code(s)

Xn;R48/20 - Xn;R22 - Xi;R36/37/38 - R43 - N;R51/53

### 2.2. Label elements

#### Product identifier

Contains N-Vinylcaprolactam, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Oxybis(methyl-2,1-ethanediy) diacrylate, Propoxylated neopentyl glycol

**Signal word**

Danger

**Hazard statements**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H335 - May cause respiratory irritation

H372 - Causes damage to organs through prolonged or repeated exposure

H411 - Toxic to aquatic life with long lasting effects

EUH210 - Safety data sheet available on request

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

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

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

P321 Specific treatment(see on this label)

P405 - Store locked up

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

**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
Isobornyl acrylate monomer	227-561-6	5888-33-5	<50	Xi; R36/37/38 N; R51-53	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 2 (H411)	No data available
N-Vinylcaprolactam	218-787-6	2235-00-9	<20	Xn; R22-48/20 Xi; R36/37 R43	STOT RE 1 (H372) Eye Irrit. 2 (H319) Skin Sens. 1B (H317) Acute Tox. 4 (H302)	No data available
Multifunctional Amine Acrylate	-	XX-XX-X	<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
phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide	423-340-5	162881-26-7	<5	R43 R53	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available
Propoxylated	-	84170-74-1	<10	Xi; R36/37/38	Skin Irrit. 2 (H315)	No data available

neopentyl glycol					Eye Irrit. 2 (H319) Skin Sens. 1 (H317) STOT SE 3 (H335)	
Oxybis(methyl-2,1-eth anediyi 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>	Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
<b>Inhalation</b>	Immediate medical attention is not required. If symptoms persist, call a physician. Artificial respiration and/or oxygen may be necessary. Move to fresh air in case of accidental inhalation of vapors. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.
<b>Skin contact</b>	Wash off immediately with plenty of water. If skin irritation persists, call a physician. Immediate medical attention is not required. Wash off immediately with plenty of water for at least 15 minutes. Wash contaminated clothing before reuse. Consult a physician if necessary.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Immediate medical attention is not required. Clean mouth with water and drink afterwards plenty of water. Call a physician. If symptoms persist, call a physician.

### 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>	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**

Some may be transported hot Some may burn but none ignite readily Those substances designated with a "P" may polymerize explosively when heated or involved in a fire

### **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 eyes and skin. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes or clothing. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

#### **For emergency responders**

Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

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 further leakage or spillage if safe to do so. Prevent dust cloud.

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

Dam up. Pick up and transfer to properly labeled containers. After cleaning, flush away traces with water. Prevent product from entering drains. Clean contaminated surface thoroughly. Avoid creating dust. Take up mechanically, placing in appropriate containers for disposal. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Use personal protective equipment as required.

### **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. Use with local exhaust ventilation. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

#### **General Hygiene Considerations**

Regular cleaning of equipment, work area and clothing is recommended.

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

#### **Storage Conditions**

Keep in properly labeled containers. Keep container tightly closed. 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 (PNEC)** No information available.

**8.2. Exposure controls**

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

**Personal protective equipment**

**Eye/face protection** Face protection shield.

**Skin and body protection** Suitable protective clothing. Apron. Gloves made of plastic or rubber. 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>	Magenta		

Property	Values	Remarks • Method
<b>pH</b>		No information available
<b>Melting point / freezing point</b>		
<b>Boiling point / boiling range</b>	> 200 °C / 392 °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

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)**                                2,426.00 mg/kg  
**ATEmix (dermal)**                            87,788.00 mg/kg

#### **Unknown acute toxicity**

60.884% of the mixture consists of ingredient(s) of unknown toxicity.  
56.15 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.  
56.15 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.  
60.884 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).  
60.884 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).  
57.984 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isobornyl acrylate monomer	= 4890 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	
N-Vinylcaprolactam	1400 mg/kg	>2000 mg/kg	
diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	>5000 mg/kg	>2000 mg/kg	
Oxybis(methyl-2,1-ethanediyl	= 4600 mg/kg ( Rat )	> 2 g/kg ( Rabbit )	

diacrylate			
2-phenoxyethyl acrylate	= 4660 µL/kg ( Rat )	= 2540 µL/kg ( Rabbit )	
1,6-Hexanediol diacrylate	= 5 g/kg ( Rat )	= 3600 µL/kg ( Rabbit )	

<b>Skin corrosion/irritation</b>	No information available.
<b>Serious eye damage/eye irritation</b>	No information available.
<b>Sensitization</b>	No information available.
<b>Germ cell mutagenicity</b>	No information available.
<b>Carcinogenicity</b>	No information available.
<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Aspiration hazard</b>	No information available.

## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Unknown Aquatic Toxicity 11.044 % of the mixture consists of components(s) of unknown hazards to the aquatic environment  
 11.044 % of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
N-Vinylcaprolactam	>100 mg/l Scenedesmus subspicatus	318 mg/l Brachydanio rerio	-

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

**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, diphenyl(2,4,6,-trimethylbenzoyl)phosphine oxide), 9, III, Marine Pollutant  
**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 substances, solid, n.o.s.  
**14.3 Hazard Class** 9  
**14.4 Packing Group** III  
**Description** UN3082, Environmentally hazardous substances, solid, n.o.s. (Isobornyl acrylate, diphenyl(2,4,6,-trimethylbenzoyl)phosphine oxide), 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 substances, solid, n.o.s.  
**14.3 Hazard Class** 9  
**Labels** 9  
**14.4 Packing Group** III  
**Description** UN3082, Environmentally hazardous substances, solid, n.o.s. (Isobornyl acrylate, diphenyl(2,4,6,-trimethylbenzoyl)phosphine oxide), 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, 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

#### 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

<b>TSCA</b>	Does not comply
<b>DSL/NDSL</b>	Does not comply
<b>EINECS/ELINCS</b>	Does not comply
<b>ENCS</b>	Does not comply
<b>IECSC</b>	Does not comply
<b>KECL</b>	Does not comply
<b>PICCS</b>	Does not comply
<b>AICS</b>	Does not comply

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### 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

R43 - May cause sensitization by skin contact

R22 - Harmful if swallowed

R62 - Possible risk of impaired fertility

R53 - May cause long-term adverse effects in the aquatic environment

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/37/38 - Irritating to eyes, respiratory system and skin

R36/37 - Irritating to eyes and respiratory system

R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation

R36/38 - Irritating to eyes and skin

**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
- H372 - Causes damage to organs through prolonged or repeated exposure if inhaled
- H302 - Harmful if swallowed
- H318 - Causes serious eye damage
- H335 - May cause respiratory irritation
- H411 - Toxic to aquatic life with long lasting effects
- H361 - Suspected of damaging fertility or the unborn child if inhaled

**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** 03-Jun-2015

**Revision Date** 03-Jun-2015

**Revision Note** Not applicable.

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

**End of Safety Data Sheet**