

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 29-Jun-2018

Revision Date 29-Jun-2018

Version 1

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

1.1. Product identifier

Product Name Amethyst A20-RTR-MI Magenta

Contains Proprietary Acrylic Ester Derivative, Acrylic Acid Ester, 4-hydroxybutyl acrylate, Isobornyl acrylate monomer, Proprietary Acrylic Ester Derivative, 2-phenoxyethyl acrylate, 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 1A - (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

N - Dangerous for the environment

R-code(s)

C;R34 - Xi;R37 - R43 - N;R51/53

2.2. Label elements

Product identifier

Contains Proprietary Acrylic Ester Derivative, Acrylic Acid Ester, 4-hydroxybutyl acrylate, Isobornyl acrylate monomer, Proprietary Acrylic Ester Derivative, 2-phenoxyethyl acrylate, 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

H411 - Toxic 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

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 Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Proprietary Acrylic Ester Derivative	Listed	-	<40	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
Acrylic Acid Ester	Listed	-	<35	Acute Tox. 4 (H302) Skin Corr. 1A (H314) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	No data available
2-phenoxyethyl acrylate	256-360-6	48145-04-6	<15	Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	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
4-hydroxybutyl	219-606-3	2478-10-6	<10	Acute Tox. 4 (H302)	No data available

acrylate				Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317)	
Isobornyl acrylate monomer	227-561-6	5888-33-5	<5	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	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
2-Benzyl-2-dimethylamino-1-(4-morpholinophenyl)butan-1-one	404-360-3	119313-12-1	<5	No data available	No data available
Proprietary Acrylic Ester Derivative	Listed	-	<5	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	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
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

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

	water while removing all contaminated clothes and shoes. Wash off immediately with soap and plenty of water.
Eye contact	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.
Ingestion	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.
Self-protection of the first aider	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, CO₂, 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

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. Do not allow into any sewer, on the ground or into any body of water.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	liquid	Odor	Characteristic
Appearance	Liquid	Odor threshold	No information available
Color	Magenta		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH		No information available
Melting point / freezing point		
Boiling point / boiling range	> 200 °C / °F	
Flash point	100 °C / °F	
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limit in Air		
Upper flammability limit:		No information available
Lower flammability limit:		No information available
Vapor pressure		No information available
Vapor density		No information available
Relative density		
Water solubility	Immiscible in water	
Solubility(ies)		No information available
Partition coefficient		
Autoignition temperature		
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

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)	1,589.00 mg/kg
ATEmix (dermal)	5,966.84 mg/kg

Unknown acute toxicity

- 94.57334 % of the mixture consists of ingredient(s) of unknown toxicity.
- 11.82834 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 76.1596 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 94.57334 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 94.57334 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 91.67334 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-phenoxyethyl acrylate	= 4660 µL/kg (Rat)	= 2540 µL/kg (Rabbit)	
4-hydroxybutyl acrylate	871	>2.000mg/kg	
Diethylene glycol methyl ethyl ether	= 6500 µL/kg (Rat)	= 7070 µL/kg (Rabbit)	
Isobornyl acrylate monomer	= 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)	

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 49.837194 % of the mixture consists of component(s) of unknown hazards to the aquatic environment
 49.837194 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Isobornyl acrylate monomer	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
Description	UN3082, Environmentally hazardous substance, liquid, n.o.s. (Isobornyl acrylate monomer, 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 substance, liquid, n.o.s.
14.3 Hazard Class	9
14.4 Packing Group	III
Description	&UN3082, & (<TNR00012>), 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, & (<TNA00012>), 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**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

R50 - Very toxic to aquatic organisms

R34 - Causes burns

R37 - Irritating to respiratory system

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

R52/53 - Harmful to aquatic organisms, 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

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R36/38 - Irritating to eyes and skin

Full text of H-Statements referred to under section 3

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H411 - Toxic to aquatic life with long lasting effects

H335 - May cause respiratory irritation

H314 - Causes severe skin burns and eye damage

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 29-Jun-2018**Revision Date** 29-Jun-2018**Revision Note** Not applicable.**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

End of Safety Data Sheet