

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 Magenta

Contains Urethane Acrylate, Proprietary Acrylic Ester Derivative, Multifunctional Amine Acrylate, Acrylic Acid Ester, Non Hazardous component, Multifunctional Polyester Acrylate, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide, 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

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

Skin corrosion/irritation	Category 1 - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitization	Category 1 - (H317)
Reproductive Toxicity	Category 1B - (H360)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
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

2.2. Label elements Product identifier

Contains Urethane Acrylate, Proprietary Acrylic Ester Derivative, Multifunctional Amine Acrylate, Acrylic Acid Ester, Non Hazardous component, Multifunctional Polyester Acrylate, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide, 2-Benzyl-2-dimethylamino-1-(4-morpholinophenyl)butan-1-one

**Signal word**

Danger

Hazard statements

H314 - Causes severe skin burns and eye damage

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, 2-phenoxyethyl acrylate, Oxybis(methyl-2,1-ethanediyl diacrylate, Propoxylated neopentyl glycol EUH208 - May produce an allergic reaction

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

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

P280 - Wear eye protection/ face protection

P321 - Specific treatment (see .? on this label)

P201 - Obtain special instructions before use

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

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	58.96	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
Proprietary Acrylic Ester Derivative	227-561-6	5888-33-5	10.45	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	5.236	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available

Acrylic Acid Ester	Listed	-	0 - 10%	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	3.069	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available
Diphenyl(2,4,6-trimethylbenzoyl) phosphine oxide	278-355-8	75980-60-8	2.9	Skin Sens. 1 (H317)	No data available
Multifunctional Polyester Acrylate	239-701-3	15625-89-5	1	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317)	No data available
Resin	Listed	-	0 - 10%	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	No data available
2-phenoxyethyl acrylate	256-360-6	48145-04-6	0.5175	Eye Dam. 1 (H318) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available
Propoxylated neopentyl glycol	-	84170-74-1	0.5	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	0.5	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317)	No data available
Ethanol	200-578-6	64-17-5	0.0025	Flam. Liq. 2 (H225)	No data available
Acrylic acid	201-177-9	79-10-7	0.0006	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Aquatic Acute 1 (H400) Flam. Liq. 3 (H226)	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

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Ethanol 64-17-5	-	TWA: 1000 ppm TWA: 1920 mg/m ³ STEL: 3000 ppm STEL: 5760 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 5000 ppm STEL: 9500 mg/m ³	STEL: 1000 ppm STEL: 1910 mg/m ³	TWA: 500 ppm TWA: 960 mg/m ³
Acrylic acid 79-10-7	-	-	TWA: 2 ppm TWA: 6 mg/m ³ STEL: 10 ppm STEL: 30 mg/m ³	TWA: 2 ppm TWA: 6 mg/m ³ vía dérmica*	TWA: 10 ppm TWA: 30 mg/m ³
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Ethanol 64-17-5	-	TWA: 1000 ppm	TWA: 260 mg/m ³ STEL: 1900 mg/m ³ H*	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL: 1300 ppm STEL: 2500 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³
Acrylic acid 79-10-7	-	TWA: 2 ppm P*	-	TWA: 2 ppm TWA: 6 mg/m ³ STEL: 15 ppm STEL: 45 mg/m ³	TWA: 2 ppm TWA: 5.9 mg/m ³ H*
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Ethanol 64-17-5	TWA: 1000 ppm TWA: 1900 mg/m ³ STEL 2000 ppm STEL 3800 mg/m ³	TWA: 500 ppm TWA: 960 mg/m ³ STEL: 1000 ppm STEL: 1920 mg/m ³	TWA: 1900 mg/m ³	TWA: 500 ppm TWA: 950 mg/m ³ STEL: 500 ppm STEL: 950 mg/m ³	STEL: 1000 ppm
Acrylic acid 79-10-7	-	TWA: 10 ppm TWA: 30 mg/m ³ STEL: 10 ppm STEL: 30 mg/m ³	STEL: 29.5 mg/m ³ TWA: 10 mg/m ³	TWA: 10 ppm TWA: 30 mg/m ³ STEL: 10 ppm STEL: 30 mg/m ³	TWA: 2 ppm TWA: 6 mg/m ³ STEL: 6 ppm STEL: 18 mg/m ³

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.

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

Physical state	liquid		
Appearance	Liquid	Odor	Characteristic
Color	Magenta	Odor threshold	No information available
<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	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		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 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)	2,450.00
ATEmix (dermal)	15,720.00

Unknown acute toxicity

- 94.2670051 % of the mixture consists of ingredient(s) of unknown toxicity.
- 69.4170051 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 75.9170051 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 94.2670051 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 94.2670051 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 91.3670051 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

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
hazard	No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Unknown aquatic toxicity 73.96971 % of the mixture consists of component(s) of unknown hazards to the aquatic environment
 73.96971 % 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	-	-
Ethanol	-	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
Acrylic acid	0.17: 96 h Pseudokirchneriella subcapitata mg/L EC50 0.04: 72 h	222: 96 h Brachydanio rerio mg/L LC50 semi-static	270: 24 h Daphnia magna mg/L LC50 Static 95: 48 h Daphnia magna mg/L EC50
	Desmodesmus subspicatus mg/L EC50		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential No

information available.

Chemical Name	Partition coefficient
Ethanol	-0.32
Acrylic acid	0.46

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 monomer, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide), 9, III, Marine Pollutant
14.5 Marine pollutant	Not applicable

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 Not regulated
 14.3 Hazard Class 9
 14.4 Packing Group III
 Description &UN3082, & (<TNR00012>), 9, III
 14.5 Environmental hazard Not applicable
 14.6 Special Provisions None
 Classification code M6

ADR

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)**

Chemical Name	French RG number	Title
Ethanol 64-17-5	RG 84	-

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
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H361 - Suspected of damaging fertility or the unborn child if inhaled
H312 - Harmful in contact with skin
H332 - Harmful if inhaled
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

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Revision Note Not applicable.

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

End of Safety Data Sheet