

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 02-Sep-2015

Revision Date 02-Sep-2015

Version 1

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

1.1. Product identifier

Product Name Amethyst A56-MP-F&F Magenta

Contains Proprietary Acyclic Ester Derivative, Morpholine, 4-(1-oxo-2-propenyl)-, Ethoxylated Ester, 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

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 2 - (H315)
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

Xn - Harmful

R-code(s)

Xn;R48/22 - Xn;R22 - Xi;R36/37/38 - Xi;R41 - R43 - R51/53

2.2. Label elements

Product identifier

Contains Proprietary Acyclic Ester Derivative, Morpholine, 4-(1-oxo-2-propenyl)-, Ethoxylated Ester, phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide, diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide

**Signal word**

Danger

Hazard statements

H302 - Harmful if swallowed

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

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

EUH210 - Safety data sheet available on request

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

P310 - Immediately call a POISON CENTER or doctor

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

P405 - Store locked up

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

P321 Specific treatment(see on this label)

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
Ethoxylated Ester	-	28961-43-5	<30	Xi; R36 R43	Eye Irrit. 2, H319 Skin Sens. 1 (H317)	No data available
Isobornyl acrylate monomer	227-561-6	5888-33-5	<25	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
Proprietary Acyclic Ester Derivative	Listed	-	<20	Xn; R21/22	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Eye Dam. 1 (H318)	No data available
Morpholine, 4-(1-oxo-2-propenyl)-	418-140-1	5117-12-4	<15	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

phenylbis(2,4,6-trimethylbenzoyl)-phosphine oxide	423-340-5	162881-26-7	<6	R43 R53	Skin Sens. 1 (H317) Aquatic Chronic 4 (H413)	No data available
diphenyl (2,4,6-trimethylbenzoyl) phosphine oxide	278-355-8	75980-60-8	<3	Repr.Cat.3; R62 R43 N;51/53	Skin Sens. 1 (H317) Repr. 2 (H361) Aquatic Chronic 2 (H411)	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
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-ethanediyl 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
Butoxyethyl acetate	203-933-3	112-07-2	<5	Xn; R20/21	Acute Tox. 4 (H312) Acute Tox. 4 (H332)	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	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Call a physician. Artificial respiration and/or oxygen may be necessary. Immediate medical attention is not required. Move to fresh air in case of accidental inhalation of vapors. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician if necessary. Wash contaminated clothing before reuse. Wash off immediately with plenty of water. If skin irritation persists, call a physician. Wash off immediately with soap and plenty of water. Immediate medical attention is not required.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician. Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Ingestion	Rinse mouth. Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.

Self-protection of the first aider Use personal protective equipment as required.

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 May cause sensitization in susceptible persons. 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

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 In the event of fire and/or explosion do not breathe fumes May cause sensitization in susceptible persons Thermal decomposition can lead to release of irritating and toxic gases and vapors

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

Do not touch or walk through spilled material. Stop leak if you can do it without risk. Avoid inhalation of asbestos dust. 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

Prevent entry into waterways, sewers, basements or confined areas. 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 Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly. Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers.

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

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation.

General Hygiene Considerations

When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Regular cleaning of equipment, work area and clothing is recommended.

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 in properly labeled containers.

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
Butoxyethyl acetate 112-07-2	TWA 20 ppm TWA 133 mg/m ³ STEL 50 ppm STEL 333 mg/m ³ *	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 332 mg/m ³ Sk*	TWA: 10 ppm TWA: 66.5 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ *	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ via dérmica*	TWA: 20 ppm TWA: 130 mg/m ³ H*
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ pelle*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ P*	TWA: 135 mg/m ³ STEL: 333 mg/m ³ H*	TWA: 20 ppm TWA: 130 mg/m ³ STEL: 50 ppm STEL: 330 mg/m ³ iho*	TWA: 20 ppm TWA: 134 mg/m ³ H*
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Butoxyethyl acetate 112-07-2	TWA: 20 ppm TWA: 133 mg/m ³ STEL 40 ppm STEL 270 mg/m ³ H*	TWA: 10 ppm TWA: 66 mg/m ³ STEL: 20 ppm STEL: 132 mg/m ³ H*	STEL: 300 mg/m ³ TWA: 100 mg/m ³	TWA: 10 ppm TWA: 65 mg/m ³ STEL: 20 ppm STEL: 97.5 mg/m ³ H*	TWA: 20 ppm TWA: 133 mg/m ³ STEL: 50 ppm STEL: 333 mg/m ³ Sk*

Chemical Name	European Union	United Kingdom	France	Spain	Germany
Butoxyethyl acetate 112-07-2	-	-	-	-	100 mg/L 200 mg/L
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Butoxyethyl acetate 112-07-2	-	100 200	-	-	-

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	Suitable protective clothing. Suitable protective clothing. Apron. Gloves made of plastic or rubber.
Environmental exposure controls	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

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)	607.00 mg/kg
ATEmix (dermal)	2,595.00 mg/kg

Unknown acute toxicity

- 84.649 % of the mixture consists of ingredient(s) of unknown toxicity.
- 31.549 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 6.549 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 84.649 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 84.649 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
- 81.749 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Butoxyethyl acetate	= 2400mg/kg (Rat)	= 1500 mg/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 57.01 % of the mixture consists of component(s) of unknown hazards to the aquatic environment
57.01 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

Chemical Name	Partition coefficient
Butoxyethyl acetate	1.51

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.

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. (diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide), 9, III
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, Environmentally hazardous substance, liquid, n.o.s. (diphenyl(2,4,6,-trimethylbenzoyl)phosphine oxide), Environmentally Hazardous, 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, Environmentally hazardous substance, liquid, n.o.s. (diphenyl(2,4,6,-trimethylbenzoyl)phosphine oxide), Environmentally Hazardous, 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. (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

France**Occupational Illnesses (R-463-3, France)**

Chemical Name	French RG number	Title
Butoxyethyl acetate 112-07-2	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**

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

R41 - Risk of serious damage to eyes

R22 - Harmful if swallowed

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

R62 - Possible risk of impaired fertility

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

R21/22 - Harmful in contact with skin and if swallowed

R48/22 - Harmful: danger of serious damage to health by prolonged exposure if swallowed

R36/38 - Irritating to eyes and skin

Full text of H-Statements referred to under section 3

H312 - Harmful in contact with skin

H332 - Harmful if inhaled

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

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H318 - Causes serious eye damage

H302 - Harmful if swallowed

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

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 02-Sep-2015

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Revision Note Not applicable.

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

End of Safety Data Sheet