SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product name : AQUAFUZE Cleaner / AQ-CL300 / AQ-CL1000B

Manufacturer or supplier's details

Company name of supplier : MUTOH America Inc
Address : 4405 East Baseline Road, Suite 120 Phoenix, Arizona 85042
Telephone : 480-968-7772
Emergency telephone : 480-968-7772
During normal opening times

Recommended use of the chemical and restrictions on use

Recommended use : Digital printing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements

GHS label elements : Void
Hazard pictograms : Void
Signal word : Void

Hazard-determining components of labeling:

Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-
2,4,7,9-tetramethyldec-5-yne-4,7-diol

Hazard statements : Void

Other hazards

Results of PBT and vPvB assessment

PBT : Not applicable.
vPvB : Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : Mixtures

Components: Mixture of the substances listed below with nonhazardous additions.

Chemical name	CAS-No.	Concentration (% w/w)
Water	7732-18-5	>=50 - <100
Additives	CBI	<5

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General advice : Never make an unconscious person vomit or drink fluids.
After inhalation : Supply fresh air. If required, provide artificial respiration. Keep patient warm.
After skin contact : Immediately wash with soap and water and rinse thoroughly.
After eye contact : Rinse open eye for several minutes under running water. Then consult a doctor.
After swallowing : Rinse out mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents	:	Carbon dioxide (CO2) Extinguishing powder or water spray Fight larger fires with water spray or alcohol resistant foam
For safety reasons unsuitable extinguishing media	:	Water with full jet

Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Iodine
Under certain fire conditions, traces of other toxic gases cannot be excluded.

Advice for firefighters

Protective equipment	:	Wear self-contained breathing apparatus.
Additional information	:	Cool endangered containers with water spray. Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow product to reach sewage system or any watercourse.
Inform respective authorities in case of seepage into watercourse or sewage system.
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Dilute with plenty of water.
Dispose of contaminated material as waste according to section 13.

Protective Action Criteria for Chemicals

Propylene glycol	PAC-1 PAC-2 PAC-3	30 mg/m^3 1,300 mg/m^3 7,900 mg/m^3

Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Information about protection against explosions and fires: Substance/product is oxidising when dry.

Conditions for safe storage, including any incompatibilities

Storage	:	Store in accordance with current national regulations.
Requirements to be met by storerooms and containers	:	Store only in the original container. Store between 5 - 30°C
Information about storage in one common storage facility	:	Keep away from combustible material

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace

Additional information

The instructions and information provided by the manufacturer of the personal protective equipment on

use, storage, maintenance and replacement must always be followed.

Exposure controls

Engineering measures

Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.

General protective and hygienic measures

Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Store protective clothing separately.
Avoid contact with the eyes and skin.
Keep away from foodstuffs, beverages and feed.

Personal protective equipment

Hand protection	:	Impervious gloves should be replaced regularly and if there is any sign of damage to the glove material. Penetration time of glove material: The exact break through time has to be obtained from the manufacturer of the protective gloves and must be observed.
Eye/fece protection	:	Safety glasses
Body protection	:	Protective work clothing; disposable overalls are preferable.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

General Information

Color	:	Colorless
Odor	:	Characteristic
Odour Threshold	:	Not determined
Melting point/Melting range	:	undetermined
Boiling point/Boiling range	:	100 °C (7732-18-5 Water)
Flammability	:	Not determined
Explosion limit		
Lower	:	Not determined
Upper	:	Not determined
Flash point	:	Not applicable
Auto-igniting	:	Not applicable
Decomposition temperature	:	Not determined
pH - value	:	Not determined
Viscosity		
Kinematic	:	Not determined
Dynamic	:	Not determined
Water	:	Fully miscible
Partition coefficient (n-octanol/water)	:	Not determined
Vapour pressure	:	Not determined
Density and/or relative density		
Density	:	Not determined
Relative density	:	Not determined
Vapour density	:	Not determined

Other information

Appearance		
Form	:	Fluid
Important information on protection of health and environment, and on safety.		
Ignition temperature	:	Product is not selfigniting
Danger of explosion	:	Not determined
Oxidizing properties	:	Not determined
Evaporation rate	:	Not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No further relevant information available.

Chemical stability
Thermal decomposition / conditions avoided : No decomposition if used according to to be specifications.
Possibility of hazardous reactions : No dangerous reactions known.
Conditions to avoid : No further relevant information available.
Incompatible materials : No further relevant information available.
Hazardous decomposition products : No dangerous decomposition products known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects
Other information (about experimental toxicology):
AMES - negative
Additional toxicological information:
Carcinogenic categories
IARC (International Agency for Research on Cancer) : None of the ingredients is listed.
NTP (National Toxicology Program) : None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration) : None of the ingredients is listed.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Aquatic toxicity
No further relevant information available.
Persistence and degradability
No further relevant information available.
Bioaccumulative potential
No further relevant information available.
Mobility in soil
No further relevant information available.
Results of PBT and vPvB assessment
PBT : Not applicable
vPvB : Not applicable
Other adverse effects
No further relevant information available.
Additional ecological information:
General notes:
There are no data on the preparation itself
Not applicable.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Recommendation
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
Recommendation:
Disposal must be made according to official regulations.
Also see Section 16 'Other Information'

SECTION 14. TRANSPORT INFORMATION

UN number or ID number
DOT, ADR, IMDG, IATA : Void
UN proper shipping name
DOT, ADR, IMDG, IATA : Void
Transport hazard class(es)

DOT, ADR, ADN, IMDG, IATA
Class : Void
Packing group
DOT, ADR, IMDG, IATA : Void
Environmental hazards
Marine pollutant : No
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable
Transport additional information:
Not dangerous according to the above specifications.
Special precautions for user : Not applicable.
UN "Model Regulation" : Void

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.
SARA Section 355 (extremely hazardous substances)
None of the ingredients is listed.
SARA Section 313 (specific toxic chemical listings)
None of the ingredients is listed.
Hazardous Air Pollutants
None of the ingredients is listed.
Prop 65 - Chemicals known to cause cancer
None of the ingredients is listed.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The safety data sheets are in compliance with regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878

Recommended restriction of use
The product should not be used for any purpose other than that specified in Section 1.

Abbreviations and acronyms
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road), IMDG: International Maritime Code for Dangerous Goods, DOT: US Department of Transportation IATA: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 66th Edition 2025), EINECS: European Inventory of Existing Commercial Chemical Substances, ELINCS: European List of Notified Chemical Substances, CAS: Chemical Abstracts Service (division of the American Chemical Society), NFPA: National Fire Protection Association (USA), TLV: Threshold Limit Value, PEL: Permissible Exposure Limit, REL: Recommended Exposure Limit, LC50: Lethal concentration, 50 percent, LD50: Lethal dose, 50 percent, PBT: Persistent, Bioaccumulative and Toxic, vPvB: very Persistent and very Bioaccumulative, OSHA: Occupational Safety & Health

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product name : AQUAFUZE Cyan / AQ-CY1000

Manufacturer or supplier's details

Company name of supplier : MUTOH America Inc
Address : 4405 East Baseline Road, Suite 120 Phoenix, Arizona 85042
Telephone : 480-968-7772
Emergency telephone : 480-968-7772
During normal opening times

Recommended use of the chemical and restrictions on use

Recommended use : Digital printing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements

GHS label elements : Void
Hazard pictograms : Void
Signal word : Void

Hazard-determining components of labeling:

Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-
2,4,7,9-tetramethyldec-5-yne-4,7-diol

Hazard statements : Void

Other hazards

Results of PBT and vPvB assessment

PBT : Not applicable.
vPvB : Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : Mixtures

Components: Mixture of the substances listed below with nonhazardous additions.

Chemical name	CAS-No.	Concentration (% w/w)
Water	7732-18-5	>=50 - <100
Propylene glycol	57-55-6	>= 10 - < 30
Copper Phthalocyanine Pigment	Proprietary	>= 0.5 - < 1.5
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	< 1

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General advice : Never make an unconscious person vomit or drink fluids.
After inhalation : Supply fresh air. If required, provide artificial respiration. Keep patient warm.
After skin contact : Immediately wash with soap and water and rinse thoroughly.
After eye contact : Rinse open eye for several minutes under running water. Then consult a doctor.
After swallowing : Rinse out mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents : Carbon dioxide (CO2)
Extinguishing powder or water spray
Fight larger fires with water spray or alcohol resistant foam

For safety reasons
unsuitable extinguishing media : Water with full jet

Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Iodine
Under certain fire conditions, traces of other toxic gases cannot be excluded.

Advice for firefighters

Protective equipment : Wear self-contained breathing apparatus.
Additional information : Cool endangered containers with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow product to reach sewage system or any watercourse.
Inform respective authorities in case of seepage into watercourse or sewage system.
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Dilute with plenty of water.
Dispose of contaminated material as waste according to section 13.

Protective Action Criteria for Chemicals

Propylene glycol	PAC-1 PAC-2 PAC-3	30 mg/m^3 1,300 mg/m^3 7,900 mg/m^3

Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Information about protection against explosions and fires: Substance/product is oxidising when dry.

Conditions for safe storage, including any incompatibilities

Storage : Store in accordance with current national regulations.
Requirements to be met by storerooms and containers : Store only in the original container.
Store between 5 - 30°C(41 and 86 °F).
Information about storage in one common storage facility : Keep away from combustible material

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace

WEEL	Propylene glycol	Long-term value: 10 mg/m³
ACGIH TLV	Copper Phthalocyanine Pigment	TWA: 1 mg/m^3 Cu dust and mist

NIOSH IDLH	Copper Phthalocyanine Pigment	IDLH: 100 mg/m^3 Cu dust and mist TWA: 1 mg/m^3 Cu dust and mist

Additional information
The instructions and information provided by the manufacturer of the personal protective equipment on use, storage, maintenance and replacement must always be followed.
Exposure controls
Engineering measures
Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.
Individual protection measures, such as personal protective equipment

Eye/Face Protection	: Tightly fitting safety goggles.
Skin and body protection	: Wear dermal personal protective equipment impervious to the chemical substance selected and used in accordance with the OSHA requirements at 29 CFR sections 1910.132, 1910.133, and 1910.138.
Respiratory protection	: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	: When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
General Information

Color	:	Cyan
Odor	:	Characteristic
Odour Threshold	:	Not determined
Melting point/Melting range	:	undetermined
Boiling point/Boiling range	:	undetermined
Flammability	:	Not determined
Explosion limit		
Lower	:	Not determined
Upper	:	Not determined
Flash point	:	Not applicable
Auto-igniting	:	Not applicable
Decomposition temperature	:	Not determined
pH - value	:	Not determined
Viscosity		
Kinematic	:	Not determined
Dynamic	:	Not determined
Water	:	Fully miscible
Partition coefficient (n-octanol/water)	:	Not determined
Vapour pressure	:	Not determined
Density and/or relative density		
Density	:	Not determined
Relative density	:	Not determined
Vapour density	:	Not determined

Other information
Appearance
Form : Fluid
Important information on protection of health and environment, and on safety.

Ignition temperature	:	Product is not selfigniting
Danger of explosion	:	Not determined
Solvent content		
Organic solvents	:	14.4%
Oxidizing properties	:	Not determined
Evaporation rate	:	Not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	None under normal processing.
Conditions to avoid	:	Extremes of temperature and direct sunlight. Do not allow evaporation to dryness. Substance is an oxidizing hazard when dry.
Incompatible materials	:	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	:	None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Product Information
Acute toxicity

Inhalation	: Non-irritating during normal use.
Eyes	: Non-irritating during normal use.
Skin	: Non-irritating during normal use.
Ingestion	: Ingestion may cause stomach discomfort.

Information on toxicological effects
Acute toxicity
LD/LC50 values that are relevant for classification:

Propylene glycol	Oral Dermal	LD50 LD50	= 20 g/kg (Rat) = 20800 mg/kg (Rabbit)
Copper Phthalocyanine Pigment	Oral Dermal	LD50 LD50	> 6400 mg/kg (Rat) > 5000 mg/kg (Rat)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	Oral Dermal	LD50 LD50	>2,000 mg/kg (rat) >2,000 mg/kg (rat)
2,4,7,9-tetramethyldec-5-yne-4,7-diol	Oral	LD50	4,600 mg/kg (rat)

Symptoms related to the physical, chemical and toxicological characteristics
No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	: Non-irritating during normal use.
Corrosivity	: No information available.
Sensitization	: No information available.
Mutagenic Effects	: No information available.
Reproductive Toxicity	: No information available.
Carcinogenicity	: None known.
STOT - single exposure	: No information available.
STOT - repeated exposure	: No information available.
Target organ effects	: None known.
Aspiration hazard	: No information available.

Numerical measures of toxicity - Product Information
The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	: >2000 mg/kg
ATEmix (dermal)	: >2000 mg/kg

ATE: Acute toxicity estimate

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Aquatic toxicity

Propylene glycol	EC50/96 h LC50/96h LC50/96h LC50/96h LC50/96h EC50/48h	=19,000mg/L (Pseudokirchneriellasubcapitata) =51,600mg/L (Oncorhynchus mykiss) 41 - 47mL/L (Oncorhynchus mykiss) =51400mg/L (Pimephales promelas) =710mg/L (Pimephales promelas) >1000mg/L (Daphnia magna)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	LC50/96 h EC50/48 h EC50/72 h IC50	>0.09 mg/l (Brachydanio rerio) >1.175 mg/l (Daphnia) 0.26 mg/l (algae) >100 mg/l (Sewage sludge)

Persistence and degradability
No further relevant information available.
Bioaccumulation

Chemical name	Partition coefficient
Propylene glycol	-1.07
Copper Phthalocyanine Pigment	6.6

Mobility in soil
No further relevant information available.
Results of PBT and vPvB assessment
PBT : Not applicable
vPvB : Not applicable
Other adverse effects
No further relevant information available.
Additional ecological information:
General notes:
There are no data on the preparation itself
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Recommendation
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
Recommendation:
Disposal must be made according to official regulations.
Also see Section 16 'Other Information'

SECTION 14. TRANSPORT INFORMATION

UN number or ID number
DOT, ADR, IMDG, IATA : Void
UN proper shipping name
DOT, ADR, IMDG, IATA : Void
Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA
Class : Void
Packing group
DOT, ADR, IMDG, IATA : Void
Environmental hazards
Marine pollutant : No
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable
Transport additional information:
Not dangerous according to the above specifications.
Special precautions for user : Not applicable.
UN "Model Regulation" : Void

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA Sections 4, 5 and 12(b)
This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories
Classification is shown in section 2 of this SDS.
Clean Water Act.
This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):.

Chemical name	CWA – Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA – Hazardous Substances
Copper Phthalocyanine Pigment		X		

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations
California Proposition 65
This product does not contain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene glycol		X	X		
Copper Phthalocyanine Pigment		X	X		

Additional information.
Based on EPA's assessment that includes analogue data, a component of this product known by its trade name, FPMC001, may cause skin irritation, eye irritation, respiratory sensitization, skin sensitization, and specific target organ toxicity.

SECTION 16: Other information

NFPA	Health hazards 1	Flammability 1	Instability 0	Special hazards -
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection B

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The safety data sheets are in compliance with regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878

Recommended restriction of use
The product should not be used for any purpose other than that specified in Section 1.

Abbreviations and acronyms
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road), IMDG: International Maritime Code for Dangerous Goods, DOT: US Department of Transportation IATA: International Air

Transport Association (IATA Dangerous Goods Regulation (DGR) 66th Edition 2025), EINECS: European Inventory of Existing Commercial Chemical Substances, ELINCS: European List of Notified Chemical Substances, CAS: Chemical Abstracts Service (division of the American Chemical Society), NFPA: National Fire Protection Association (USA), TLV: Threshold Limit Value, PEL: Permissible Exposure Limit, REL: Recommended Exposure Limit, LC50: Lethal concentration, 50 percent, LD50: Lethal dose, 50 percent, PBT: Persistent, Bioaccumulative and Toxic, vPvB: very Persistent and very Bioaccumulative, OSHA: Occupational Safety & Health

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product name : AQUAFUZE Magenta / AQ-MA1000

Manufacturer or supplier's details

Company name of supplier : MUTOH America Inc
Address : 4405 East Baseline Road, Suite 120 Phoenix, Arizona 85042
Telephone : 480-968-7772
Emergency telephone : 480-968-7772
During normal opening times

Recommended use of the chemical and restrictions on use

Recommended use : Digital printing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements

GHS label elements : Void
Hazard pictograms : Void
Signal word : Void

Hazard-determining components of labeling:

Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-
2,4,7,9-tetramethyldec-5-yne-4,7-diol

Hazard statements : Void

Other hazards

Results of PBT and vPvB assessment

PBT : Not applicable.
vPvB : Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : Mixtures

Components: Mixture of the substances listed below with nonhazardous additions.

Chemical name	CAS-No.	Concentration (% w/w)
Water	7732-18-5	>=50 - <100
Propylene glycol	57-55-6	>= 10 - < 30

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General advice : Never make an unconscious person vomit or drink fluids.
After inhalation : Supply fresh air. If required, provide artificial respiration. Keep patient warm.
After skin contact : Immediately wash with soap and water and rinse thoroughly.
After eye contact : Rinse open eye for several minutes under running water. Then consult a doctor.
After swallowing : Rinse out mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents : Carbon dioxide (CO2)
Extinguishing powder or water spray
Fight larger fires with water spray or alcohol resistant foam

For safety reasons
unsuitable extinguishing media : Water with full jet

Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Iodine
Under certain fire conditions, traces of other toxic gases cannot be excluded.

Advice for firefighters

Protective equipment : Wear self-contained breathing apparatus.
Additional information : Cool endangered containers with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow product to reach sewage system or any watercourse.
Inform respective authorities in case of seepage into watercourse or sewage system.
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Dilute with plenty of water.
Dispose of contaminated material as waste according to section 13.

Protective Action Criteria for Chemicals

Propylene glycol	PAC-1 PAC-2 PAC-3	30 mg/m^3 1,300 mg/m^3 7,900 mg/m^3

Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Information about protection against explosions and fires: Substance/product is oxidising when dry.

Conditions for safe storage, including any incompatibilities

Storage : Store in accordance with current national regulations.
Requirements to be met by storerooms and containers : Store only in the original container.
Store between 5 - 30°C (41 and 86 °F).
Information about storage in one common storage facility : Keep away from combustible material

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace

WEEL	Propylene glycol	Long-term value: 10 mg/m³

Additional information

The instructions and information provided by the manufacturer of the personal protective equipment on use, storage, maintenance and replacement must always be followed.

Exposure controls
Engineering measures
Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.
Individual protection measures, such as personal protective equipment

Eye/Face Protection	: Tightly fitting safety goggles.
Skin and body protection	: Wear dermal personal protective equipment impervious to the chemical substance selected and used in accordance with the OSHA requirements at 29 CFR sections 1910.132, 1910.133, and 1910.138.
Respiratory protection	: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	: When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
General Information

Color	:	Magenta
Odor	:	Characteristic
Odour Threshold	:	Not determined
Melting point/Melting range	:	undetermined
Boiling point/Boiling range	:	undetermined
Flammability	:	Not determined
Explosion limit		
Lower	:	Not determined
Upper	:	Not determined
Flash point	:	Not applicable
Auto-igniting	:	Not applicable
Decomposition temperature	:	Not determined
pH - value	:	Not determined
Viscosity		
Kinematic	:	Not determined
Dynamic	:	Not determined
Water	:	Fully miscible
Partition coefficient (n-octanol/water)	:	Not determined
Vapour pressure	:	Not determined
Density and/or relative density		
Density	:	Not determined
Relative density	:	Not determined
Vapour density	:	Not determined

Other information
Appearance

Form	:	Fluid

Important information on protection of health and environment, and on safety.

Ignition temperature	:	Product is not selfigniting
Danger of explosion	:	Not determined
Solvent content		
Organic solvents	:	14.4%
Oxidizing properties	:	Not determined
Evaporation rate	:	Not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions.

Possibility of hazardous reactions	:	None under normal processing.
Conditions to avoid	:	Extremes of temperature and direct sunlight. Do not allow evaporation to dryness. Substance is an oxidizing hazard when dry.
Incompatible materials	:	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	:	None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Product Information
Acute toxicity

Inhalation : Non-irritating during normal use.
Eyes : Non-irritating during normal use.
Skin : Non-irritating during normal use.
Ingestion : Ingestion may cause stomach discomfort.

Information on toxicological effects
Acute toxicity
LD/LC50 values that are relevant for classification:

Propylene glycol	Oral Dermal	LD50 LD50	= 20 g/kg (Rat) = 20800 mg/kg (Rabbit)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	Oral Dermal	LD50 LD50	>2,000 mg/kg (rat) >2,000 mg/kg (rat)
2,4,7,9-tetramethyldec-5-yne-4,7-diol	Oral	LD50	4,600 mg/kg (rat)

Symptoms related to the physical, chemical and toxicological characteristics
No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritation : Non-irritating during normal use.
Corrosivity : No information available.
Sensitization : No information available.
Mutagenic Effects : No information available.
Reproductive Toxicity : No information available.
Carcinogenicity : None known.
STOT - single exposure : No information available.
STOT - repeated exposure : No information available.
Target organ effects : None known.
Aspiration hazard : No information available.
Numerical measures of toxicity - Product Information
The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) : >2000 mg/kg
ATEmix (dermal) : >2000 mg/kg
ATE: Acute toxicity estimate

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Aquatic toxicity

Propylene glycol	EC50/96 h LC50/96h LC50/96h LC50/96h LC50/96h EC50/48h	=19,000mg/L (Pseudokirchneriellasubcapitata) =51,600mg/L (Oncorhynchus mykiss) 41 - 47mL/L (Oncorhynchus mykiss) =51400mg/L (Pimephales promelas) =710mg/L (Pimephales promelas) >1000mg/L (Daphnia magna)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	LC50/96 h EC50/48 h EC50/72 h IC50	>0.09 mg/l (Brachydanio rerio) >1.175 mg/l (Daphnia) 0.26 mg/l (algae) >100 mg/l (Sewage sludge)

Persistence and degradability
No further relevant information available.
Bioaccumulation

Chemical name	Partition coefficient
Propylene glycol	-1.07

Mobility in soil
No further relevant information available.
Results of PBT and vPvB assessment
PBT : Not applicable
vPvB : Not applicable
Other adverse effects
No further relevant information available.
Additional ecological information:
General notes:
There are no data on the preparation itself
Not applicable.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Recommendation
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
Recommendation:
Disposal must be made according to official regulations.
Also see Section 16 'Other Information'

SECTION 14. TRANSPORT INFORMATION

UN number or ID number
DOT, ADR, IMDG, IATA : Void
UN proper shipping name
DOT, ADR, IMDG, IATA : Void
Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA
Class : Void
Packing group
DOT, ADR, IMDG, IATA : Void
Environmental hazards
Marine pollutant : No
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable
Transport additional information:
Not dangerous according to the above specifications.
Special precautions for user : Not applicable.
UN "Model Regulation" : Void

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA Sections 4, 5 and 12(b)
This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories

Classification is shown in section 2 of this SDS.

Clean Water Act.

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene glycol		X	X		

Additional information.

Based on EPA's assessment that includes analogue data, a component of this product known by its trade name, FPMC001, may cause skin irritation, eye irritation, respiratory sensitization, skin sensitization, and specific target organ toxicity.

SECTION 16: Other information

NFPA	Health hazards 1	Flammability 1	Instability 0	Special hazards -
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection B

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The safety data sheets are in compliance with regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878

Recommended restriction of use

The product should not be used for any purpose other than that specified in Section 1.

Abbreviations and acronyms

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road), IMDG: International Maritime Code for Dangerous Goods, DOT: US Department of Transportation IATA: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 66th Edition 2025), EINECS: European Inventory of Existing Commercial Chemical Substances, ELINCS: European List of Notified Chemical Substances, CAS: Chemical Abstracts Service (division of the American Chemical Society), NFPA: National Fire Protection Association (USA), TLV: Threshold Limit Value, PEL: Permissible Exposure Limit, REL: Recommended Exposure Limit, LC50: Lethal concentration, 50 percent, LD50: Lethal dose, 50 percent, PBT: Persistent, Bioaccumulative and Toxic, vPvB: very Persistent and very Bioaccumulative, OSHA: Occupational Safety & Health

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product name : AQUAFUZE Yellow / AQ-YE1000

Manufacturer or supplier's details

Company name of supplier : MUTOH America Inc
Address : 4405 East Baseline Road, Suite 120 Phoenix, Arizona 85042
Telephone : 480-968-7772
Emergency telephone : 480-968-7772
During normal opening times

Recommended use of the chemical and restrictions on use

Recommended use : Digital printing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements

GHS label elements : Void
Hazard pictograms : Void
Signal word : Void

Hazard-determining components of labeling:

Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-
2,4,7,9-tetramethyldec-5-yne-4,7-diol

Hazard statements : Void

Other hazards

Results of PBT and vPvB assessment

PBT : Not applicable.
vPvB : Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : Mixtures

Components: Mixture of the substances listed below with nonhazardous additions.

Chemical name	CAS-No.	Concentration (% w/w)
Water	7732-18-5	>=50 - <100
Propylene glycol	57-55-6	>= 10 - < 30

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General advice : Never make an unconscious person vomit or drink fluids.
After inhalation : Supply fresh air. If required, provide artificial respiration. Keep patient warm.
After skin contact : Immediately wash with soap and water and rinse thoroughly.
After eye contact : Rinse open eye for several minutes under running water. Then consult a doctor.
After swallowing : Rinse out mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents : Carbon dioxide (CO2)
Extinguishing powder or water spray
Fight larger fires with water spray or alcohol resistant foam

For safety reasons
unsuitable extinguishing media : Water with full jet

Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Iodine
Under certain fire conditions, traces of other toxic gases cannot be excluded.

Advice for firefighters

Protective equipment : Wear self-contained breathing apparatus.
Additional information : Cool endangered containers with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow product to reach sewage system or any watercourse.
Inform respective authorities in case of seepage into watercourse or sewage system.
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Dilute with plenty of water.
Dispose of contaminated material as waste according to section 13.

Protective Action Criteria for Chemicals

Propylene glycol	PAC-1 PAC-2 PAC-3	30 mg/m^3 1,300 mg/m^3 7,900 mg/m^3

Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Information about protection against explosions and fires: Substance/product is oxidising when dry.

Conditions for safe storage, including any incompatibilities

Storage : Store in accordance with current national regulations.
Requirements to be met by storerooms and containers : Store only in the original container.
Store between 5 - 30°C(41 and 86 °F).
Information about storage in one common storage facility : Keep away from combustible material

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

Components with limit values that require monitoring at the workplace

WEEL	Propylene glycol	Long-term value: 10 mg/m³

Additional information

The instructions and information provided by the manufacturer of the personal protective equipment on use, storage, maintenance and replacement must always be followed.

Exposure controls
Engineering measures
Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.
Individual protection measures, such as personal protective equipment

Eye/Face Protection	: Tightly fitting safety goggles.
Skin and body protection	: Wear dermal personal protective equipment impervious to the chemical substance selected and used in accordance with the OSHA requirements at 29 CFR sections 1910.132, 1910.133, and 1910.138.
Respiratory protection	: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	: When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
General Information

Color	:	Yellow
Odor	:	Characteristic
Odour Threshold	:	Not determined
Melting point/Melting range	:	undetermined
Boiling point/Boiling range	:	undetermined
Flammability	:	Not determined
Explosion limit		
Lower	:	Not determined
Upper	:	Not determined
Flash point	:	Not applicable
Auto-igniting	:	Not applicable
Decomposition temperature	:	Not determined
pH - value	:	Not determined
Viscosity		
Kinematic	:	Not determined
Dynamic	:	Not determined
Water	:	Fully miscible
Partition coefficient (n-octanol/water)	:	Not determined
Vapour pressure	:	Not determined
Density and/or relative density		
Density	:	Not determined
Relative density	:	Not determined
Vapour density	:	Not determined

Other information
Appearance

Form	:	Fluid

Important information on protection of health and environment, and on safety.

Ignition temperature	:	Product is not selfigniting
Danger of explosion	:	Not determined
Solvent content		
Organic solvents	:	12.4%
Oxidizing properties	:	Not determined
Evaporation rate	:	Not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions.

Possibility of hazardous reactions	:	None under normal processing.
Conditions to avoid	:	Extremes of temperature and direct sunlight. Do not allow evaporation to dryness. Substance is an oxidizing hazard when dry.
Incompatible materials	:	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	:	None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Product Information
Acute toxicity

Inhalation : Non-irritating during normal use.
Eyes : Non-irritating during normal use.
Skin : Non-irritating during normal use.
Ingestion : Ingestion may cause stomach discomfort.

Information on toxicological effects
Acute toxicity
LD/LC50 values that are relevant for classification:

Propylene glycol	Oral Dermal	LD50 LD50	= 20 g/kg (Rat) = 20800 mg/kg (Rabbit)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	Oral Dermal	LD50 LD50	>2,000 mg/kg (rat) >2,000 mg/kg (rat)
2,4,7,9-tetramethyldec-5-yne-4,7-diol	Oral	LD50	4,600 mg/kg (rat)

Symptoms related to the physical, chemical and toxicological characteristics
No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure
Irritation : Non-irritating during normal use.
Corrosivity : No information available.
Sensitization : No information available.
Mutagenic Effects : No information available.
Reproductive Toxicity : No information available.
Carcinogenicity : None known.
STOT - single exposure : No information available.
STOT - repeated exposure : No information available.
Target organ effects : None known.
Aspiration hazard : No information available.
Numerical measures of toxicity - Product Information
The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) : >2000 mg/kg
ATEmix (dermal) : >2000 mg/kg
ATE: Acute toxicity estimate

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Aquatic toxicity

Propylene glycol	EC50/96 h LC50/96h LC50/96h LC50/96h LC50/96h EC50/48h	=19,000mg/L (Pseudokirchneriellasubcapitata) =51,600mg/L (Oncorhynchus mykiss) 41 - 47mL/L (Oncorhynchus mykiss) =51400mg/L (Pimephales promelas) =710mg/L (Pimephales promelas) >1000mg/L (Daphnia magna)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	LC50/96 h EC50/48 h EC50/72 h IC50	>0.09 mg/l (Brachydanio rerio) >1.175 mg/l (Daphnia) 0.26 mg/l (algae) >100 mg/l (Sewage sludge)

Persistence and degradability
No further relevant information available.
Bioaccumulation

Chemical name	Partition coefficient
Propylene glycol	-1.07

Mobility in soil
No further relevant information available.
Results of PBT and vPvB assessment
PBT : Not applicable
vPvB : Not applicable
Other adverse effects
No further relevant information available.
Additional ecological information:
General notes:
There are no data on the preparation itself
Not applicable.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Recommendation
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
Recommendation:
Disposal must be made according to official regulations.
Also see Section 16 'Other Information'

SECTION 14. TRANSPORT INFORMATION

UN number or ID number
DOT, ADR, IMDG, IATA : Void
UN proper shipping name
DOT, ADR, IMDG, IATA : Void
Transport hazard class(es)
DOT, ADR, ADN, IMDG, IATA
Class : Void
Packing group
DOT, ADR, IMDG, IATA : Void
Environmental hazards
Marine pollutant : No
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable
Transport additional information:
Not dangerous according to the above specifications.
Special precautions for user : Not applicable.
UN "Model Regulation" : Void

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA Sections 4, 5 and 12(b)
This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories

Classification is shown in section 2 of this SDS.

Clean Water Act.

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene glycol		X	X		

Additional information.

Based on EPA's assessment that includes analogue data, a component of this product known by its trade name, FPMC001, may cause skin irritation, eye irritation, respiratory sensitization, skin sensitization, and specific target organ toxicity.

SECTION 16: Other information

NFPA	Health hazards 1	Flammability 1	Instability 0	Special hazards -
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection B

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The safety data sheets are in compliance with regulation (EC) No 1907/2006, Article 31 as amended by Regulation (EU) 2020/878

Recommended restriction of use

The product should not be used for any purpose other than that specified in Section 1.

Abbreviations and acronyms

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road), IMDG: International Maritime Code for Dangerous Goods, DOT: US Department of Transportation IATA: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 66th Edition 2025), EINECS: European Inventory of Existing Commercial Chemical Substances, ELINCS: European List of Notified Chemical Substances, CAS: Chemical Abstracts Service (division of the American Chemical Society), NFPA: National Fire Protection Association (USA), TLV: Threshold Limit Value, PEL: Permissible Exposure Limit, REL: Recommended Exposure Limit, LC50: Lethal concentration, 50 percent, LD50: Lethal dose, 50 percent, PBT: Persistent, Bioaccumulative and Toxic, vPvB: very Persistent and very Bioaccumulative, OSHA: Occupational Safety & Health

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product name : AQUAFUZE Black / AQ-BK1000

Manufacturer or supplier's details

Company name of supplier : MUTOH America Inc
Address : 4405 East Baseline Road, Suite 120 Phoenix, Arizona 85042
Telephone : 480-968-7772
Emergency telephone : 480-968-7772
During normal opening times

Recommended use of the chemical and restrictions on use

Recommended use : Digital printing

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product is not classified, according to the Globally Harmonized System (GHS).

Label elements

GHS label elements : Void
Hazard pictograms : Void
Signal word : Void

Hazard-determining components of labeling:

Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-
2,4,7,9-tetramethyldec-5-yne-4,7-diol

Hazard statements : Void

Other hazards

Results of PBT and vPvB assessment

PBT : Not applicable.
vPvB : Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization : Mixtures

Components: Mixture of the substances listed below with nonhazardous additions.

Chemical name	CAS-No.	Concentration (% w/w)
Water	7732-18-5	>=50 - <100
Propylene glycol	57-55-6	>= 10 - < 30
Carbon Black	1333-86-4	>=1 - < 5
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	162881-26-7	< 1

SECTION 4. FIRST AID MEASURES

Description of first aid measures

General advice : Never make an unconscious person vomit or drink fluids.
After inhalation : Supply fresh air. If required, provide artificial respiration. Keep patient warm.
After skin contact : Immediately wash with soap and water and rinse thoroughly.
After eye contact : Rinse open eye for several minutes under running water. Then consult a doctor.
After swallowing : Rinse out mouth and then drink plenty of water.

Most important symptoms and effects, both acute and delayed

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing agents : Carbon dioxide (CO2)
Extinguishing powder or water spray
Fight larger fires with water spray or alcohol resistant foam

For safety reasons
unsuitable extinguishing media : Water with full jet

Special hazards arising from the substance or mixture

In case of fire, the following can be released:
Iodine
Under certain fire conditions, traces of other toxic gases cannot be excluded.

Advice for firefighters

Protective equipment : Wear self-contained breathing apparatus.
Additional information : Cool endangered containers with water spray.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Environmental precautions

Do not allow product to reach sewage system or any watercourse.
Inform respective authorities in case of seepage into watercourse or sewage system.
Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up

Dilute with plenty of water.
Dispose of contaminated material as waste according to section 13.

Protective Action Criteria for Chemicals

Propylene glycol	PAC-1 PAC-2 PAC-3	30 mg/m^3 1,300 mg/m^3 7,900 mg/m^3

Reference to other sections

See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Store in cool, dry place in tightly closed receptacles.
Keep away from heat and direct sunlight.
Information about protection against explosions and fires: Substance/product is oxidising when dry.

Conditions for safe storage, including any incompatibilities

Storage : Store in accordance with current national regulations.
Requirements to be met by storerooms and containers : Store only in the original container.
Store between 5 - 30°C(41 and 86 °F).
Information about storage in one common storage facility : Keep away from combustible material

Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters

Exposure Guidelines

WEEL	Propylene glycol	Long-term value: 10 mg/m³
ACGIH TLV	Carbon Black	TWA: 3 mg/m^3 inhalable particulate matter

OSHA PEL	Carbon Black	TWA: 3.5 mg/m³ (vacated) TWA: 3.5 mg/m³
NIOSH IDLH	Carbon Black	IDLH: 1750 mg/m³ TWA: 3.5 mg/m³ TWA: 0.1 mg/m³ Carbon black in presence of Polycyclic aromatic hydrocarbons PAH

Additional information
The instructions and information provided by the manufacturer of the personal protective equipment on use, storage, maintenance and replacement must always be followed.
Exposure controls
Engineering measures
Minimize workplace exposure concentrations.
If sufficient ventilation is unavailable, use with local exhaust ventilation.
Individual protection measures, such as personal protective equipment

Eye/Face Protection	: Tightly fitting safety goggles.
Skin and body protection	: Wear dermal personal protective equipment impervious to the chemical substance selected and used in accordance with the OSHA requirements at 29 CFR sections 1910.132, 1910.133, and 1910.138.
Respiratory protection	: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
General Hygiene Considerations	: When using do not eat, drink or smoke. Take off contaminated clothing and wash before reuse. Regular cleaning of equipment, work area and clothing is recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties
General Information

Color	:	Black
Odor	:	Characteristic
Odour Threshold	:	Not determined
Melting point/Melting range	:	undetermined
Boiling point/Boiling range	:	undetermined
Flammability	:	Not determined
Explosion limit		
Lower	:	Not determined
Upper	:	Not determined
Flash point	:	Not applicable
Auto-igniting	:	Not applicable
Decomposition temperature	:	Not determined
pH - value	:	Not determined
Viscosity		
Kinematic	:	Not determined
Dynamic	:	Not determined
Water	:	Fully miscible
Partition coefficient (n-octanol/water)	:	Not determined
Vapour pressure	:	Not determined
Density and/or relative density		
Density	:	Not determined
Relative density	:	Not determined
Vapour density	:	Not determined

Other information
Appearance
Form : Fluid
Important information on protection of health and environment, and on safety.
Ignition temperature : Product is not selfigniting
Danger of explosion : Not determined
Solvent content

Organic solvents	:	14.4%
Oxidizing properties	:	Not determined
Evaporation rate	:	Not determined

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Stable under recommended storage conditions.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	None under normal processing.
Conditions to avoid	:	Extremes of temperature and direct sunlight. Do not allow evaporation to dryness. Substance is an oxidizing hazard when dry.
Incompatible materials	:	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous decomposition products	:	None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Product Information
Acute toxicity

Inhalation : Non-irritating during normal use.
Eyes : Non-irritating during normal use.
Skin : Non-irritating during normal use.
Ingestion : Ingestion may cause stomach discomfort.

Information on toxicological effects
Acute toxicity
LD/LC50 values that are relevant for classification:

Propylene glycol	Oral Dermal	LD50 LD50	= 20 g/kg (Rat) = 20800 mg/kg (Rabbit)
Carbon Black	Oral Dermal	LD50 LD50	> 15400 mg/kg (Rat) > 2000 mg/kg (Rabbit)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	Oral Dermal	LD50 LD50	>2,000 mg/kg (rat) >2,000 mg/kg (rat)
2,4,7,9-tetramethyldec-5-yne-4,7-diol	Oral	LD50	4,600 mg/kg (rat)

Symptoms related to the physical, chemical and toxicological characteristics
No information available.
Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation : Non-irritating during normal use.
Corrosivity : No information available.
Sensitization : No information available.
Mutagenic Effects : No information available.
Reproductive Toxicity : No information available.
Carcinogenicity : This product contains carbon black which is classified as a possible carcinogen when present as respirable dust. This is not relevant for this product since it is not in a respirable form.

Chemical name	ACGIH	IARC	NTP	OSHA
Carbon Black	A3	Group 2B		X

ACGIH: (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC: (International Agency for Research on Cancer)
Group 2B: Possibly carcinogenic to humans
OSHA: (Occupational Safety & Health Administration)
X - Present

STOT - single exposure : No information available.
STOT - repeated exposure : No information available.
Target organ effects : None known.
Aspiration hazard : No information available.

Numerical measures of toxicity - Product Information
The following values are calculated based on chapter 3.1 of the GHS document
ATEmix (oral) : >2000 mg/kg
ATEmix (dermal) : >2000 mg/kg
ATE: Acute toxicity estimate

SECTION 12. ECOLOGICAL INFORMATION

Toxicity
Aquatic toxicity

Propylene glycol	EC50/96 h LC50/96h LC50/96h LC50/96h LC50/96h EC50/48h	=19,000mg/L (Pseudokirchneriellasubcapitata) =51,600mg/L (Oncorhynchus mykiss) 41 - 47mL/L (Oncorhynchus mykiss) =51400mg/L (Pimephales promelas) =710mg/L (Pimephales promelas) >1000mg/L (Daphnia magna)
Phosphine oxide, phenylbis(2,4,6-trimethylbenzoyl)-	LC50/96 h EC50/48 h EC50/72 h IC50	>0.09 mg/l (Brachydanio rerio) >1.175 mg/l (Daphnia) 0.26 mg/l (algae) >100 mg/l (Sewage sludge)

Persistence and degradability
No further relevant information available.
Bioaccumulation

Chemical name	Partition coefficient
Propylene glycol	-1.07

Mobility in soil
No further relevant information available.
Results of PBT and vPvB assessment
PBT : Not applicable
vPvB : Not applicable
Other adverse effects
No further relevant information available.

Additional ecological information:
General notes:
There are no data on the preparation itself
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Recommendation
Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with Local Authority requirements.
Recommendation:
Disposal must be made according to official regulations.
Also see Section 16 ‘Other Information’

SECTION 14. TRANSPORT INFORMATION

UN number or ID number
DOT, ADR, IMDG, IATA : Void
UN proper shipping name
DOT, ADR, IMDG, IATA : Void
Transport hazard class(es)
DOT, ADR, AND, IMDG, IATA
Class : Void
Packing group

DOT, ADR, IMDG, IATA : Void
Environmental hazards
Marine pollutant : No
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable
Transport additional information:
Not dangerous according to the above specifications.
Special precautions for user : Not applicable.
UN "Model Regulation" : Void

SECTION 15. REGULATORY INFORMATION

U.S. Federal Regulations
TSCA Sections 4, 5 and 12(b)
This product does not contain any chemicals regulated by TSCA Sections 4, 5 or 12(b).

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
SARA 311/312 Hazard Categories
Classification is shown in section 2 of this SDS.
Clean Water Act.
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).
CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations
California Proposition 65



WARNING Cancer – www.P65Warnings.ca.gov; This product contains carbon black which is listed by Proposition 65 as known to cause cancer. The pigment is inextricably bound and not present in "airborne, unbound particles of respirable size" as defined by the Act; therefore, the product is not subject to the warning requirements

Chemical name	CAS No	California Prop. 65	Weight-%
Carbon Black	1333-86-4	Carcinogen	1-5%

U.S. State Right-to-Know Regulations

Chemical name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Propylene glycol		X	X		
Carbon Black	X	X	X	X	X

Additional information.
Based on EPA's assessment that includes analogue data, a component of this product known by its trade name, FPMC001, may cause skin irritation, eye irritation, respiratory sensitization, skin sensitization, and specific target organ toxicity.

SECTION 16: Other information

NFPA	Health hazards 1	Flammability 1	Instability 0	Special hazards -
HMIS	Health hazards 1	Flammability 1	Physical hazards 0	Personal protection B

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
The safety data sheets are in compliance with regulation (EC) No 1907/2006, Article 31 as

amended by Regulation (EU) 2020/878

Recommended restriction of use
The product should not be used for any purpose other than that specified in Section 1.

Abbreviations and acronyms
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road), IMDG: International Maritime Code for Dangerous Goods, DOT: US Department of Transportation IATA: International Air Transport Association (IATA Dangerous Goods Regulation (DGR) 66th Edition 2025), EINECS: European Inventory of Existing Commercial Chemical Substances, ELINCS: European List of Notified Chemical Substances, CAS: Chemical Abstracts Service (division of the American Chemical Society), NFPA: National Fire Protection Association (USA), TLV: Threshold Limit Value, PEL: Permissible Exposure Limit, REL: Recommended Exposure Limit, LC50: Lethal concentration, 50 percent, LD50: Lethal dose, 50 percent, PBT: Persistent, Bioaccumulative and Toxic, vPvB: very Persistent and very Bioaccumulative, OSHA: Occupational Safety & Health

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.