

Safety Data Sheet

Issuing Date 2016/05/02

Version 1

1. Identification

| | |
|---|---|
| Product code | 10120339IM |
| Identification of the product | AQUALESS ULTRA CYAN M |
| Reference number | OSHAENA0071366 - 1 |
| Recommended uses and restrictions on use | Ink |
| Supplier | TOYO INK AMERICA, LLC 1225 N. Michael Drive, Wood Dale, IL 60191 U.S.A TEL: +1-630-930-5100 FAX: +1-630-628-1769 |
| Emergency Telephone Number | 800-424-9300 (Chemtrec), Acct.CCN22523 (TOYO INK AMERICA, LLC) |

2. Hazards identification

Classification

Health hazards

| | |
|-----------------|------------|
| Carcinogenicity | Category 2 |
|-----------------|------------|

Physical and chemical hazards

Not classified

GHS Label elements, including precautionary statements

Emergency Overview

Signal Word WARNING

Hazard statements

Suspected of causing cancer



| | | | | | |
|--------------|------|-----------------------|--------------|-------------|--------------------------|
| Color | Cyan | Physical State | Solid(paste) | Odor | No information available |
|--------------|------|-----------------------|--------------|-------------|--------------------------|

Precautionary Statements

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

Storage

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Hazards not otherwise classified** No information available
(HNOC)**OTHER INFORMATION****Other hazards**

May be harmful in contact with skin

Unknown Acute Toxicity

73.319% of this mixture contains ingredient(s) of unknown toxicity

3. Composition/information on ingredients**Substance/mixture**

Mixture

| Chemical Name | Weight (%) | CAS No. |
|--|------------|------------|
| Rosin, polymer with formaldehyde, glycerol, pentaerythritol and (1,1,3,3-tetramethylbutyl)phenol | 25-35% | 68512-70-9 |
| Petroleum distillate, hydrogenated, middle | 15-25% | 64742-46-7 |
| Soybean oil | 10-20% | 8001-22-7 |
| C.I. Pigment Blue 15, 15:1, 15:2, 15:3, 15:4, 15:6 | 10-20% | 147-14-8 |
| Butyl oleate | 3-5% | 142-77-8 |
| Cobalt naphthenate | 0.1-1% | 61789-51-3 |

The exact percentage (concentration) and/or the specific chemical identity of composition has been withheld as a trade secret.

4. First aid measures**Description of necessary first-aid measures****Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes

Get medical attention immediately

Skin contact

Remove as much as possible by wiping

Wash off immediately with soap and plenty of water

Get medical attention immediately if symptoms occur

Inhalation

Move victim to fresh air

Get medical attention immediately if symptoms occur

Ingestion

Get medical attention immediately

Most important symptoms/effects, acute and delayed

Anticipated acute and delayed effects No information available

Most Important Symptoms/Effects No information available

Indication of immediate medical attention and special treatment needed, if necessary
Notes to physician Treat symptomatically

5. Fire-Fighting Measures

Suitable/unsuitable extinguishing media

Extinguishing media Water spray, Carbon dioxide (CO₂), Foam, Dry powder, Dry sand

Extinguishing Media Which Must Not Be Used For Safety Reasons No information available

Specific hazards arising from the chemical See section 10 (Hazardous decomposition products)

Specific methods May ignite combustibles (wood paper, oil, clothing, etc.)
Cool drums with water spray

Special protective equipment for fire-fighters Wear personal protective equipment
Evacuate area and fight fire from a safe distance

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions, protective equipment, and emergency procedures Wear suitable protective clothing
Evacuate personnel to safe areas

Secondary disaster prevention measures Remove all sources of ignition

Environmental precautions Dike to collect large liquid spills

Recovery and neutralization Take up with sand, earth or other non-combustible absorbent material
A lot of leakage things have the flow first stopped by earth and sand etc., and need to be led to a safe place.
Keep in suitable, closed containers for disposal

7. Handling and storage

Handling

Technical measures Ensure adequate ventilation

Advice on safe handling Wash hands before breaks and immediately after handling the product
Smoking, eating and drinking should be prohibited in the application area

Hygiene measures Handle in accordance with good industrial hygiene and safety practice

Storage

Technical measures/Storage conditions Protect from direct sunlight
Keep container tightly closed in a dry and well-ventilated place

8. Exposure controls/personal protection

Exposure Guidelines

| | |
|---|---|
| <u>Engineering measures</u> | Ensure adequate ventilation |
| <u>Personal protective equipment</u> | |
| Eye protection | Goggles |
| Hand protection | Rubber/latex/neoprene or other suitable chemical resistant gloves |
| Skin and body protection | Long sleeved clothing Chemical resistant apron |
| Respiratory protection | In case of insufficient ventilation, wear suitable respiratory equipment |
| <u>Other information</u> | Potential cancer hazard Handle and open container with care Keep locked up. |

9. Physical and chemical properties

Information on basic physical and chemical properties

| | | | |
|-----------------------|--------------------------|-----------------------|--------------------------|
| Physical State | Solid(paste) | Color | Cyan |
| Odor | No information available | Odor Threshold | No information available |

Property

| | |
|--|--------------------------|
| pH VALUE | No information available |
| Melting point/range | No information available |
| Boiling Point/Range | No information available |
| Flash point | Not flammable 266 F |
| Evaporation rate | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Specific Gravity | approx. 1.0 - 1.1 |
| Water solubility | Insoluble |
| Solubility in other solvents | No information available |
| Partition Coefficient (n-octanol/water) | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity | No information available |
| VOC Content (%) | Actual value 18.40 |

10. Stability and reactivity

Stability / Hazardous Reactions

| | |
|--|--------------------------------|
| Stability | Stable under normal conditions |
| Possibility of hazardous reactions | No information available |
| <u>Conditions to avoid</u> | Heat, flames and sparks |
| <u>Materials to avoid</u> | No information available |
| <u>Hazardous decomposition products</u> | No information available |

11. Toxicological information

Information on likely routes of exposure

See Section 4

Acute toxicity No acute toxicity information is available for this product**Unknown Acute Toxicity** 73.319% of this mixture contains ingredient(s) of unknown toxicity

| Chemical Name | Acute toxicity - Oral | Acute toxicity - Dermal | Acute toxicity - Inhalation |
|--|-------------------------|----------------------------|-----------------------------|
| Petroleum distillate, hydrogenated, middle | LD50 = 7400 mg/kg (Rat) | LD50 > 2000 mg/kg (Rabbit) | LC50 = 4.6 mg/L (Rat) 4 h |

Skin corrosion/irritation No Information available as a product**Serious eye damage/eye irritation** No Information available as a product**Respiratory sensitization** No Information available as a product**Skin sensitization** No Information available as a product**Germ cell mutagenicity** No Information available as a product**Carcinogenicity** No Information available as a product

| Chemical Name | ACGIH - Carcinogens | IARC - Carcinogens | NTP | U.S. - OSHA Carcinogens |
|--------------------|---------------------|--------------------|-----|-------------------------|
| Cobalt naphthenate | - | 2B | - | X |

12. Ecological information**Environmental hazards** There is no known ecological information for this product

| Chemical Name | Fish(96h) | Crustacea(48h) | Algae(72h) |
|--|---|----------------|------------|
| Petroleum distillate, hydrogenated, middle | LC50 > 10000 mg/L (Pimephales promelas) LC50 = 35 mg/L (Pimephales promelas) | - | - |

Persistence and degradability No information available**Bioaccumulative potential** No information available**13. Disposal considerations****Waste from residues/unused products** To discard the container after using up the contents
Dispose of in accordance with federal, state and local regulations**Contaminated packaging** Empty containers should be recycling or disposal in accordance with the law**RCRA (Resource Conservation and Recovery Act)**

| Chemical Name | RCRA - 40 CFR 261 Appendix VIII | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes | RCRA - P Series Wastes |
|---------------|---------------------------------|--------------------------------|------------------------|------------------------|------------------------|
| Ethylbenzene | - | Included in waste stream: F039 | - | - | - |
| Xylene | - | Included in waste stream: F039 | - | U239 | - |

14. Transport information

ADR/RID ICAO/IATA IMDG/IMO

| | |
|--------------------------------|---|
| UN number | - |
| Marine pollutant | Not applicable |
| Special safety measures | Ground and bond containers when transferring material |

15. Regulatory information

International Inventories

U.S. TSCA: All ingredients in this product are listed on the Toxic Substances Control Act (TSCA) Inventory.

U.S. Federal Regulations

TSCA Section 5(a)(2) SNURs

Not applicable

SARA 313

Not applicable

SARA 311/312 Hazard Categories

| | |
|--|-----|
| Acute Health Hazard | No |
| Chronic Health Hazard | Yes |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Air Act

| Chemical Name | CAA - HON Rule - Organic HAPs |
|---------------|-------------------------------|
| Ethylbenzene | X |
| Xylene | X |

CERCLA

| Chemical Name | CERCLA/SARA Hazardous Substances RQs |
|---------------|--------------------------------------|
| Ethylbenzene | 1000 lb |
| Xylene | 100 lb |

U.S. State Regulations

California Proposition 65

WARNING: This product contains a chemical [or chemicals] known to the State of California to cause cancer, birth defects and/or other reproductive harm.

| Chemical Name | U.S. - CA Prop 65 Carcinogens | U.S. - CA Prop 65 Developmental | U.S. - CA Prop 65 Reproductive Male | U.S. - CA Prop 65 Reproductive Female |
|---------------|-------------------------------------|---------------------------------------|--|--|
| Ethylbenzene | X | - | - | - |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | New Jersey - Special Health Hazards Substances List | Pennsylvania | Massachusetts |
|-------------------------|------------|---|----------------------|---------------|
| Ethylbenzene | - | - | Environmental hazard | - |
| Xylene | - | - | Environmental hazard | - |
| Cobalt naphthenate | - | >=0.1% | - | - |
| Soybean oil | - | - | Present | - |
| Polytetrafluoroethylene | - | - | Present | - |

16. Other information

| | | | | | | | | |
|-------------|---------------------------|---|--------------------------|---|-----------------------------|---|---------------------------------|---|
| NFPA | NFPA Health Hazard | 1 | NFPA Flammability | 1 | NFPA Instability | 1 | NFPA Special Hazard | - |
| HMIS | HMIS Health | 1 | HMIS Flammability | 1 | HMIS Physical Hazard | 1 | HMIS Personal Protection | - |

Legend

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | | |
|----------|-----------------------|-------|---|
| TWA: | Time weighted average | STEL: | Short term exposure limit |
| Ceiling: | Maximum limit value | IDLH: | Immediately Dangerous to Life or Health |
| S*: | Skin absorption | S+: | Sensitizer |

Manufacturer Same as Supplier

Literary reference ACGIH (American Conference of Governmental Industrial Hygienists)
IARC (International Agency for Research on Cancer)

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- The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification.

The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet