# Safety Data Sheet



# Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

• Image Mate DZ 343 dyed, Z-1, Z-2, clear

Product Description • Purple, red, blue or clear liquid.

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified use(s) • Water-based emulsion

# 1.3 Details of the supplier of the safety data sheet

Manufacturer • IKONICS Corporation

4832 Grand Ave. Duluth, MN 55807 United States www.ikonics.com sds@ikonics.com

Telephone (General) • (218) 628-2217

Telephone (General) • (800) 328-4261 - Toll free

#### 1.4 Emergency telephone number

- 1-800-424-9300 Within USA and Canada
- +1 703-527-3887 Outside USA and Canada (collect calls accepted)

#### Section 2: Hazards Identification

#### **EU/EEC**

According to EU Directive 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010] According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

# 2.1 Classification of the substance or mixture

CLP • Not classifiedDSD/DPD • Not classified

# 2.2 Label Elements

**CLP** 

Hazard statements • Not classified

Precautionary statements

Prevention • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national,

and/or international regulations.

#### DSD/DPD

Safety phrases • S24/25 - Avoid contact with skin and eyes.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

#### 2.3 Other Hazards

CLPNo data availableNo data available

#### **UN GHS**

**According to Third Revised Edition** 

#### 2.1 Classification of the substance or mixture

**UN GHS** • Not classified

#### 2.2 Label elements

**UN GHS** 

Hazard statements • Not classified

#### Precautionary statements

Prevention • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national,

and/or international regulations.

#### 2.3 Other hazards

**UN GHS** • No data available

# **United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

#### 2.1 Classification of the substance or mixture

OSHA HCS 2012 • Not classified OSHA HCS 1994 • Not classified

#### 2.2 Label elements

**OSHA HCS 2012** 

# Precautionary

statements

Prevention • P280 - Wear protective gloves/protective clothing/eye protection/face protection.

**Response** • P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**Storage/Disposal** • P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

OSHA HCS 1994 • Not classified

2.3 Other hazards

OSHA HCS 2012 

• No data available

**OSHA HCS 1994** 

No data available

#### Canada

**According to WHMIS** 

#### 2.1 Classification of the substance or mixture

**WHMIS** 

Not classified

2.2 Label elements

**WHMIS** 

No data available

2.3 Other hazards

**WHMIS** 

• No data available

#### 2.4 Other information



#### Key to abbreviations

= See Section 16 for full text of R and S phrases.

See Section 12 for Ecological Information.

# Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

#### 3.2 Mixtures

• No ingredients are hazardous according to OSHA, GHS, CLP or WHMIS criteria.

#### Section 4 - First Aid Measures

#### 4.1 Description of first aid measures

Inhalation

• IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration and call 911 or emergency medical service.

Skin

• IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.

Eye

• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

• If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Rinse mouth. Never give anything by mouth to an unconscious person. If large quantities are swallowed, call a physician immediately.

# 4.2 Most important symptoms and effects, both acute and delayed

• Refer to Section 11 - Toxicological Information.

#### 4.3 Indication of any immediate medical attention and special treatment needed

#### Section 5 - Firefighting Measures

#### 5.1 Extinguishing media

**Suitable Extinguishing** • SMALL FIRES: Dry chemical, CO2, water spray or regular foam.

Media

LARGE FIRE: Water spray, fog or regular foam.

Unsuitable

No data available

**Extinguishing Media** 

Firefighting Procedures • Fire fighters should wear complete protective clothing including self-contained breathing

apparatus.

Keep unauthorized personnel away. Ventilate closed spaces before entering.

LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.

# 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards** 

· Some may burn but none ignite readily.

Hazardous Combustion • Products of combustion include: carbon oxides (COx).

**Products** 

#### 5.3 Advice for firefighters

 Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Wear positive pressure self-contained breathing apparatus (SCBA).

#### Section 6 - Accidental Release Measures

# 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

**Emergency Procedures** 

 No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

# 6.2 Environmental precautions

No data available.

#### 6.3 Methods and material for containment and cleaning up

Containment/Clean-up Measures

• Use appropriate Personal Protective Equipment (PPE) Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container.

#### 6.4 Reference to other sections

 Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

#### Section 7 - Handling and Storage

#### 7.1 Precautions for safe handling

Handling

• Use good safety and industrial hygiene practices.

#### 7.2 Conditions for safe storage, including any incompatibilities

Storage

• Keep container closed when not in use. Store away from extreme heat. Do not freeze. Ventilate enclosed areas.

# 7.3 Specific end use(s)

• Refer to Section 1.2 - Relevant identified uses.

#### Section 8 - Exposure Controls/Personal Protection

#### 8.1 Control parameters

# 8.2 Exposure controls

**Engineering** Measures/Controls • Local exhaust is recommended but not required. Provide adequate ventilation as necessary.

**Personal Protective Equipment** 

**Pictograms** 

Respiratory

• In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

• Wear protective eyewear (goggles, face shield, or safety glasses).

Hands

• Wear protective gloves - rubber or neoprene.

Skin/Body

• Wear protective clothing - apron or other impervious body coverings.

**General Industrial Hygiene** 

**Considerations** 

• Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

**Environmental Exposure** 

**Controls** 

• No data available

# **Section 9 - Physical and Chemical Properties**

# 9.1 Information on Physical and Chemical Properties

Material Description				
Physical Form	Liquid	Appearance/Description	Viscous liquid.	
Color	Red, blue, purple or clear.	Odor	Not relevant	
Taste	Not relevant	Particulate Type	Not relevant	
Particulate Size	Not relevant	Aerosol Type	Not relevant	
Odor Threshold	Not relevant	Physical and Chemical Properties	Not relevant	
General Properties				
Boiling Point	100 C(212 F)	Melting Point	Not relevant	
Decomposition Temperature	Not relevant	Heat of Decomposition	Not relevant	
рН	4.5	Specific Gravity/Relative Density	1.08 Water=1	
Density	8.91 lbs/gal	Bulk Density	Not relevant	
Water Solubility	Dispersible	Solvent Solubility	Not relevant	
Viscosity	No data available	Explosive Properties	None.	
Oxidizing Properties:	None.			
Volatility				
Vapor Pressure	Not relevant	Vapor Density	Not relevant	
Evaporation Rate	< 1 n-Butyl Acetate = 1	VOC (Wt.)	Not relevant	
VOC (Vol.)	Not relevant	Volatiles (Wt.)	52 %	
Volatiles (Vol.)	Not relevant			
Flammability				
Flash Point	> 200 F(> 93.3333 C)	UEL	Not relevant	
LEL	Not relevant	Autoignition	Not relevant	
Self-Accelerating Decomposition Temperature (SADT)	Not relevant	Heat of Combustion (ΔHc)	Not relevant	
Burning Time	Not relevant	Flame Duration	Not relevant	
Flame Height	Not relevant	Flame Extension	Not relevant	

Ignition Distance	Not relevant	Flammability (solid, gas)	Non-flammable in liquid form. When dry, product will burn as an ordinary combustible material.		
Environmental					
Half-Life	No data available	Octanol/Water Partition coefficient	No data available		
Coefficient of water/oil distribution	No data available	Bioaccumulation Factor	No data available		
Bioconcentration Factor	No data available	Biochemical Oxygen Demand BOD/BOD5	No data available		
Chemical Oxygen Demand	No data available	Persistence	No data available		
Degradation	No data available				

#### 9.2 Other Information

• No data available

# **Section 10: Stability and Reactivity**

# 10.1 Reactivity

• No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

• Stable

# 10.3 Possibility of hazardous reactions

• Hazardous polymerization will not occur.

#### 10.4 Conditions to avoid

• Avoid freezing. Excess heat.

#### 10.5 Incompatible materials

• Strong oxidizing agents, strong acids, strong bases.

# 10.6 Hazardous decomposition products

• Hazardous decomposition products formed under fire conditions - carbon oxides (COx). No decomposition is expected under normal storage and use conditions.

# Section 11 - Toxicological Information

# 11.1 Information on toxicological effects

GHS Properties	Classification
Acute toxicity	EU/CLP• OSHA HCS 2012• UN GHS•
Aspiration Hazard	EU/CLP• OSHA HCS 2012• UN GHS•
Carcinogenicity	EU/CLP• OSHA HCS 2012• UN GHS•
Germ Cell Mutagenicity	EU/CLP• OSHA HCS 2012• UN GHS•
Skin corrosion/Irritation	EU/CLP• OSHA HCS 2012• UN GHS•
Skin sensitization	EU/CLP•

	OSHA HCS 2012• UN GHS•
STOT-RE	EU/CLP• OSHA HCS 2012• UN GHS•
STOT-SE	EU/CLP• OSHA HCS 2012• UN GHS•
Toxicity for Reproduction	EU/CLP• OSHA HCS 2012• UN GHS•
Respiratory sensitization	EU/CLP• OSHA HCS 2012• UN GHS•
Serious eye damage/Irritation	EU/CLP• OSHA HCS 2012• UN GHS•

# **Potential Health Effects**

#### Inhalation

Acute (Immediate)

• May cause irritation.

Chronic (Delayed)

• Repeated and prolonged exposure may cause irritation.

Skin

Acute (Immediate)

• May cause mild irritation.

**Chronic (Delayed)** 

• Repeated and prolonged exposure may cause irritation.

Eye

Acute (Immediate)

• May cause irritation.

Chronic (Delayed)

• Repeated and prolonged exposure may cause irritation.

Ingestion

Acute (Immediate)

• Under normal conditions of use, no health effects are expected.

Chronic (Delayed)

No specific information available.

# **Section 12 - Ecological Information**

#### 12.1 Toxicity

• No data available

# 12.2 Persistence and degradability

• No data available.

#### 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in Soil

• No data available

#### 12.5 Results of PBT and vPvB assessment

• No data available

#### 12.6 Other adverse effects

# **Section 13 - Disposal Considerations**

#### 13.1 Waste treatment methods

**Product waste** 

• Dispose of content in accordance with local, regional, national, and/or international regulations.

**Packaging waste** 

• Dispose of container in accordance with local, regional, national, and/or international regulations.

#### 13.2 Other Information

• Dispose of wastes in an approved waste disposal facility.

# **Section 14 - Transport Information**

	14.1 UN number	14.2 UN proper shipping name	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards
DOT	NDA	NDA	NDA	NDA	NDA
IMO/IMDG	NDA	NDA	NDA	NDA	NDA
IATA/ICAO	NDA	NDA	NDA	NDA	NDA

14.6 Special precautions for user

• None specified.

14.7 Transport in bulk according to Annex II of

· Not relevant.

MARPOL 73/78 and the IBC Code

14.8 Other information

**DOT** • DOT (US): Not dangerous goods.

**IMO/IMDG** • IMDG: Not dangerous goods.

IATA/ICAO • IATA: Not dangerous goods.

# **Section 15 - Regulatory Information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Not classified

#### 15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### 15.3 Other Information

 California Proposition 65: This product contains or may contain a substance(s) known to the State of California to cause cancer and/or reproductive toxicity:

Formaldehyde CAS No. 50-00-0 < 0.0006%

#### **Section 16 - Other Information**

#### Relevant Phrases (code & full text)

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

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P304+P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

S24/25 - Avoid contact with skin and eves.

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

**Last Revision Date** 

• 27 July 2012

**Preparation Date** 

• 15 August 2012

# Other Information Disclaimer/Statement of Liability

- Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.
- The information contained herein is based on data available to us and is believed to be correct. Since this information may have been obtained in part from independent laboratories or other sources not under direct supervision, no representation is made that the information is accurate, reliable, complete, or representative and Buyer may rely thereon only at the Buyer's risk. We make no guarantee that the health and safety precautions we have suggested will be adequate for all individuals and / or situations involving its handling and uses. No warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet.