

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

**1.1 Product identifier**

**Product Name** • **Image Mate DZ 367**

**Product Description** • Blue 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**

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

Issued: Supersedes:

**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 classified

**DSD/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

CLP • No data available

DSD/DPD • No data available

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## UN GHS

According to Third Revised Edition

### 2.1 Classification of the substance or mixture

UN GHS • No data available

### 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

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## 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+P350 - IF ON SKIN: Gently 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

**Canada**

According to WHMIS

**2.1 Classification of the substance or mixture**

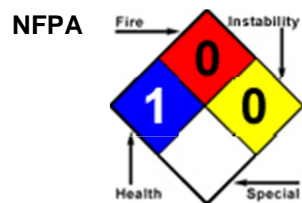
WHMIS • No data available

**2.2 Label elements**

WHMIS • No data available

**2.3 Other hazards**

WHMIS • No data available

**2.4 Other 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. 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**

**Notes to Physician** • No data available.

**Antidotes** • No data available.

**4.4 Other information**

- Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

**Suitable Extinguishing Media** • SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.  
LARGE FIRE: Water spray, fog or regular foam.

**Unsuitable Extinguishing Media** • No data available

**Firefighting Procedures** • Fire fighters should wear complete protective clothing including self-contained breathing apparatus.  
Keep unauthorized personnel away.  
LARGE FIRES: Use extinguishing agent suitable for type of surrounding fire.  
Ventilate closed spaces before entering.

### 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** • Products of combustion include: carbon oxides (CO<sub>x</sub>).

### 5.3 Advice for firefighters

- Fire fighters should wear complete protective clothing including self-contained breathing apparatus.  
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.

## 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. Contact may irritate or burn skin and eyes. 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.

### 6.2 Environmental precautions

- LARGE SPILLS: Prevent entry into waterways, sewers, basements or confined areas.

### 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.

### 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                     | Blue               | Odor                              | No data available |
| Taste                     | No data available. | Particulate Type                  | Not relevant      |
| Particulate Size          | Not relevant       | Aerosol Type                      | Not relevant      |
| Odor Threshold            | No data available  |                                   |                   |
| General Properties        |                    |                                   |                   |
| Boiling Point             | 100 C(212 F)       | Melting Point                     | No data available |
| Decomposition Temperature | No data available  | Heat of Decomposition             | No data available |
| pH                        | No data available  | Specific Gravity/Relative Density | No data available |
| Density                   | 9.01 lbs/gal       | Bulk Density                      | No data available |
| Water Solubility          | Miscible           | Solvent Solubility                | No data available |
| Viscosity                 | No data available  | Explosive Properties              | None.             |
| Oxidizing Properties:     | None.              |                                   |                   |
| Volatility                |                    |                                   |                   |
| Vapor Pressure            | No data available  | Vapor Density                     | No data available |
| Evaporation Rate          | No data available  | VOC (Wt.)                         | No data available |
| VOC (Vol.)                | No data available  | Volatiles (Wt.)                   | 56.2 %            |
| Volatiles (Vol.)          | No data available  |                                   |                   |
| Flammability              |                    |                                   |                   |
| Flash Point               |                    | UEL                               | No data available |
| LEL                       | No data available  | Autoignition                      | No data available |

|  |                   |                                     |  |
|--|-------------------|-------------------------------------|--|
| Self-Accelerating Decomposition Temperature (SADT) | No data available | Heat of Combustion ( $\Delta H_c$ ) | No data available  |
| Burning Time                                       | No data available | Flame Duration                      | No data available  |
| Flame Height                                       | No data available | Flame Extension                     | No data available  |
| Ignition Distance                                  | No data available | Flammability (solid, gas)           | Non-flammable in liquid form. When dry, product will burn as an ordinary combustible material. |
| <b>Environmental</b>                               |                   |                                     |  |
| 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 additional physical and chemical parameters noted.

## 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

- Excess heat. Avoid freezing.

### 10.5 Incompatible materials

- No data available.

### 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•<br>OSHA HCS 2012•<br>UN GHS• |
| Aspiration Hazard      | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |
| Carcinogenicity        | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |
| Germ Cell Mutagenicity | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |

|                               |                                      |
|-------------------------------|--------------------------------------|
| Skin corrosion/Irritation     | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |
| Skin sensitization            | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |
| STOT-RE                       | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |
| STOT-SE                       | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |
| Toxicity for Reproduction     | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |
| Respiratory sensitization     | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |
| Serious eye damage/Irritation | EU/CLP•<br>OSHA HCS 2012•<br>UN GHS• |

**Medical Conditions Aggravated by Exposure**

- No data available.

**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)**

- Causes serious eye 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

- Ecological Fate** • No data available.
- Potential Environmental Effects** • No data available.

## 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 known.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** • Not relevant.

### 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.

### 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 <0.005%  
1,4-Dioxane CAS No. 123-91-1 <0.003%

## 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 eyes.

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

- Classification method for mixtures**
- Calculation method.
- Last Revision Date**
- 15 August 2012
- Preparation Date**
- 30 August 2012
- Other Information**
- Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.
- Disclaimer/Statement of Liability**
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