# **Safety Data Sheet**



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

### 1.1 Product identifier

Product Name
• SBX Liquid Emulsion
• White or violet emulsion

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

Relevant identified use(s) • Sa

Sandblast photoresist

### 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)

### **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 • \$36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

#### 2.3 Other Hazards

CLP • No data available DSD/DPD No 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

### 2.2 Label elements

**OSHA HCS 2012** 

### **Precautionary** statements

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

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

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

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338

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

### 2.3 Other hazards

**OSHA HCS 2012** No data available

### Canada

**According to WHMIS** 

### 2.1 Classification of the substance or mixture

WHMIS • Not classified

2.2 Label elements

WHMIS • Not classified

2.3 Other hazards

WHMISNo data available

### 2.4 Other information

**NFPA** 



## 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

• 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.

• IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical

advice/attention.

• 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.

• 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

No data available

## 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.

UnsuitableNo 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**  • Material may burn, but does not 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.

**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

Eye/Face

Hands

Skin/Body

Considerations

**General Industrial Hygiene** 

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

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

• Wear protective gloves - rubber or neoprene.

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

• 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	White or violet	Odor	Mild		
Taste	Not relevant	Odor Threshold	No data available		
Physical and Chemical Properties	Not relevant				
General Properties					
Boiling Point	100 C(212 F)	Melting Point	Not relevant		
Decomposition Temperature	Not relevant	рН	No data available		
Density	8.7 lbs/gal	Water Solubility	Miscible		
Viscosity	No data available	Explosive Properties	Not relevant		
Oxidizing Properties:	Not relevant				
Volatility					
Vapor Pressure	Not relevant	Vapor Density	Not relevant		
Evaporation Rate	No data available	VOC (Vol.)	Not relevant		
Volatiles (Wt.)	48 %				
Flammability					
Flash Point	No data available	UEL	Not relevant		
LEL	Not relevant	Autoignition	Not relevant		
Flammability (solid, gas)	Not relevant				
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

• Direct sunlight. Excess heat. Avoid freezing.

# 10.5 Incompatible materials

• Strong oxidizing agents.

# 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 mild 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 MARPOL 73/78 and the IBC Code

· Not relevant.

14.8 Other information

**DOT** • Not regulated.

IMO/IMDG • Not regulated.

### **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:

1,4-Dioxane	CAS #123-91-1	<0.00014%
Formaldehyde	CAS #50-00-0	<0.0005%
Acetaldehyde	CAS #75-07-0	<0.0001%
Toluene	CAS #108-88-3	<0.0001%

### **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.

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

Classification method

for mixtures

**Last Revision Date** 

**Preparation Date** 

Other Information

Liability

• 31 March 2004

• 12 September 2014

Calculation method.

• Approved by: Troy Bergstedt, Director of Chemical Research, (218) 628-2217 ext.142.

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