## **Safety Data Sheet**



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

#### 1.1 Product identifier

Product Name • Alpha Micro-Cap D

Product Description • Green film

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

Relevant identified use(s) • Pre-sensitized capillary film

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** • Skin Sensitization 1 - H317

EUH208

**DSD/DPD** • Sensitizer

R43

#### 2.2 Label Elements

**CLP** 

#### **WARNING**



**Hazard statements** • H317 - May cause an allergic skin reaction.

EUH208 - Contains sensitizing substances (Diazo sensitizer). May produce an allergic reaction.

**Precautionary** 

statements

Prevention • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P321 - Specific treatment, see supplemental first aid information.

P363 - Wash contaminated clothing before reuse.

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

national, and/or international regulations.

#### DSD/DPD



Risk phrases • R43 - May cause sensitization by skin contact.

Safety phrases • S24 - Avoid contact with skin.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show

the label where possible). S37 - Wear suitable gloves.

## 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** • Skin Sensitization 1 - H317

#### 2.2 Label elements

**UN GHS** 

#### **WARNING**



Hazard statements • H317 - May cause an allergic skin reaction.

# Precautionary statements

**Prevention** • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P321 - Specific treatment, see supplemental first aid information.

P363 - Wash contaminated clothing before reuse.

**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

• Skin Sensitization 1 - H317

**OSHA HCS 1994** 

Not classified

# 2.2 Label elements

**OSHA HCS 2012** 

#### WARNING



**Hazard statements** • H317 - May cause an allergic skin reaction.

Precautionary statements

Prevention • P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.

P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P321 - Specific treatment, see supplemental first aid information.

P363 - Wash contaminated clothing before reuse.

**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

• Other Toxic Effects - D2B

# 2.2 Label elements

**WHMIS** 



• Other Toxic Effects - D2B

2.3 Other hazards

WHMISNo data available

#### 2.4 Other information

NFPA Fire Instability

#### 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

Hazardous Components					
<b>Chemical Name</b>	Identifiers	%(weight)	LD50/LC50	C50 Classifications According to Regulation/Directive	
				OSHA HCS 1994: Irrit.	
				WHMIS: Other Toxic Effects - D2B	
				UN GHS: Acute Tox. 4; Eye Irrit. 2A; Skin Irrit. 2; Skin Sens. 1;	
Diazo	CAS:41432-	1% TO		STOT SE 3: Resp. Irrit.	
sensitizer	19-3	2%		EU DSD/DPD: Harmful(Xn); R22; R36/37/38; R43	
				<b>EU CLP:</b> Acute Tox. 4; Eye Irrit. 2; Skin Irrit. 2; Skin Sens. 1B;	
				STOT SE 3: Resp. Irrit.	
				OSHA HCS 2012:	

#### Key to abbreviations

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

See Section 11 for Toxicological Information.

#### 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. 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 Media** 

• SMALL FIRES: Dry chemical, CO2, 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.
Ventilate closed spaces before entering.

Use extinguishing agent suitable for type of surrounding fire.

## 5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

• Combustible material: may burn but does not ignite readily.

Hazardous Combustion Products

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

5.3 Advice for firefighters

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

#### Section 6 - Accidental Release Measures

## 6.1 Personal precautions, protective equipment and emergency procedures

**Personal Precautions** 

 No special precautions expected to be necessary if material is used under ordinary conditions and as recommended.

**Emergency Procedures** 

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

## 6.2 Environmental precautions

• No data available

# 6.3 Methods and material for containment and cleaning up

Containment/Clean-up

No special precautions or procedures are necessary.

Measures

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

Use good safety and industrial hygiene practices.

## 7.2 Conditions for safe storage, including any incompatibilities

Storage

• Store in a cool, dry place.

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

• Not required.

Eye/Face

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

Hands

Wear appropriate gloves.

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.

**Environmental Exposure Controls** 

No data available

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

#### 9.1 Information on Physical and Chemical Properties

## **Material Description**

Physical Form	Solid	Appearance/Description	Film		
Color	Green	Odor	Not relevant		
Taste	Not relevant	Particulate Type	Not relevant		
Odor Threshold	Not relevant				
General Properties					
Boiling Point	Not relevant	Melting Point	Not relevant		
Decomposition Temperature	Not relevant	рН	Not relevant		
Specific Gravity/Relative Density	Not relevant	Water Solubility	Soluble		
Viscosity	Not relevant	<b>Explosive Properties</b>	Not relevant		
Oxidizing Properties:	Not relevant				
Volatility					
Vapor Pressure	Not relevant	Vapor Density	Not relevant		
Evaporation Rate	Not relevant	VOC (Wt.)	Not relevant		
VOC (Vol.)	Not relevant	Volatiles (Wt.)	Not relevant		
Volatiles (Vol.)	Not relevant				
Flammability					
Flash Point	Not relevant	UEL	Not relevant		
LEL	Not relevant	Autoignition	Not relevant		
Flammability (solid, gas)	Combustible solid.				
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

• UV reactive.

## 10.3 Possibility of hazardous reactions

• Hazardous polymerization will not occur.

## 10.4 Conditions to avoid

• Direct sunlight. Excess heat.

# 10.5 Incompatible materials

• No data available

## 10.6 Hazardous decomposition products

• Hazardous decomposition products formed under fire conditions - carbon oxides (COx).

# **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•Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1 UN GHS•Skin Sensitizer 1
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)

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

**Chronic (Delayed)** 

Skin

No data available

**Acute (Immediate)** • May cause an allergic skin reaction.

Chronic (Delayed) • No data available

Eye

Acute (Immediate)

• May cause irritation.

Chronic (Delayed)

• No data available

Ingestion

**Acute (Immediate)** • Under normal conditions of use, no health effects are expected.

Chronic (Delayed) • No data 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

IATA/ICAO • Not regulated

# **Section 15 - Regulatory Information**

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

SARA Hazard Classifications • Acute

Inventory						
Component	CAS	Australia AICS	Canada NDSL	Japan ENCS	Korea KECL	New Zealand
Diazo sensitizer	41432-19- 3	Yes	Yes	Yes	Yes	Yes

Inventory (Con't.)					
Component	CAS	Philippines PICCS	TSCA		
Diazo sensitizer	41432-19-3	Yes	Yes		

## 15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

#### Section 16 - Other Information

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

• EUH208 - Contains sensitizing substance. May produce an allergic reaction.

H317 - May cause an allergic skin reaction

P261 - Avoid breathing dust, fume, gas, mist, vapors and/or spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

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

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

P321 - Specific treatment, see supplemental first aid information.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

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

R22 - Harmful if swallowed.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R43 - May cause sensitization by skin contact.

S24 - Avoid contact with skin.

S37 - Wear suitable gloves.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Last Revision Date** 

**Preparation Date** 

Other Information
Disclaimer/Statement

of Liability

N/A

• 29 April 2015

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

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