

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

#### 1.1 Product identifier

Product Name • Pro/Cap TD 25/30/38/50 Films

Product Description • Green, brown or purple 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: Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 2015/830]

#### 2.1 Classification of the substance or mixture

CLP

• Skin Sensitization 1 - H317

Hazardous to the aquatic environment Chronic 3 - H412

EUH208

#### 2.2 Label Elements

CLP

#### **WARNING**



Hazard statements • H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

EUH208 - Contains sensitizing substance (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.

P273 - Avoid release to the environment.

 ${\tt P280 - Wear \ protective \ gloves/protective \ clothing/eye \ protection/face \ protection.}$ 

**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

CLP • No data available

#### **UN GHS**

According to: UN Globally Harmonized System of Classification and Labelling of Chemicals (GHS): Eighth Revised Edition

#### 2.1 Classification of the substance or mixture

**UN GHS** 

• Skin Sensitization 1 - H317

Hazardous to the aquatic environment Chronic 3 - H412

## 2.2 Label elements

**UN GHS** 

#### WARNING



Hazard statements • H317 - May cause an allergic skin reaction

H412 - Harmful to aquatic life with long lasting effects

# 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.

P273 - Avoid release to the environment.

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

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

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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

### 2.2 Label elements

**OSHA HCS 2012** 

## WARNING



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

Harmful to aquatic life with long lasting effects - H412

# Precautionary statements

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

Contaminated work clothing should not be allowed out of the workplace. -  $\mbox{\sc P272}$ 

Avoid release to the environment. - P273

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

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

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

Specific treatment, see supplemental first aid information. - P321

Wash contaminated clothing before reuse. - P363

**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 2015

#### 2.1 Classification of the substance or mixture

**WHMIS 2015** 

Skin Sensitization 1 - H317

#### 2.2 Label elements

**WHMIS 2015** 

#### WARNING



Hazard statements • May cause an allergic skin reaction - H317

Harmful to aquatic life with long lasting effects - H412

# Precautionary statements

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

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

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Specific treatment, see supplemental first aid information. - P321

Wash contaminated clothing before reuse. - P363

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

international regulations. - P501

# 2.3 Other hazards

WHMIS 2015 

• No data available

#### 2.4 Other information





See Section 12 for Ecological Information.

# Section 3 - Composition/Information on Ingredients

#### 3.1 Substances

#### 3.2 Mixtures

Composition						
Chemical Name	Identifiers	%	LD50/LC50	Classifications According to Regulation/Directive	Comments	
Diazo sensitizer	<b>CAS</b> :41432-19-3	0.4% TO 0.65%		UN GHS / EU CLP / OSHA HCS 2012 / WHMIS 2015: Acute Tox. Oral 4; Eye Irrit. 2A; Skin Irrit. 2; Skin Sens. 1; STOT SE 3: Resp. Irrit.	NDA	
Benzophenone	CAS:119-61-9 EINECS:204- 337-6	0.25% TO 0.45%	Ingestion/Oral-Rat LD50 • >10 g/kg Skin-Rabbit LD50 • 3535 mg/kg	EU CLP / UN GHS: Aquatic Acute 1; Aquatic Chronic 1; Eye Irrit. 2; Skin Irrit. 2 OSHA HCS 2012 / WHMIS 2015: Eye Irrit. 2A; Skin Irrit. 3	NDA	

European Chemicals Agency – Candidate List of Substances of Very High Concern for Authorization 1-Butanone, 2-(dimethylamino)-1-(4-(4-morpholinyl)phenyl)-2-(phenylmethyl), CAS #119313-12-1; (2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone); listed 16/01/2020; <0.2%

See Section 11 for Toxicological Information.

#### Section 4 - First Aid Measures

# 4.1 Description of first aid measures

Inhalation • IF INHALED: If breathing is of

• 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

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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).

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### 5.3 Advice for firefighters

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

# 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

Avoid run off to waterways and sewers.

# 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

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.

Eve/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

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Material Description				
Physical Form Solid		Appearance/Description	Film	
Color	Green, brown or purple.	Odor	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	Explosive Properties	Not relevant	
Oxidizing Properties:	Not relevant			
Volatility		•	•	
Vapor Pressure	Not relevant	Vapor Density	Not relevant	
Evaporation Rate	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

Components					
Benzophenone (0.25% TO 0.45%)	119-61-9	Acute Toxicity: Ingestion/Oral-Rat LD50 • >10 g/kg; Skin-Rabbit LD50 • 3535 mg/kg			

GHS Properties	Classification
	EU/CLP•Skin Sensitizer 1
Skin sensitization	OSHA HCS 2012•Skin Sensitizer 1
SKIT SETISIUZATION	UN GHS•Skin Sensitizer 1
	WHMIS 2015•Skin Sensitizer 1

#### **Potential Health Effects**

Inhalation

Acute (Immediate)

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

Chronic (Delayed)

• No data available

Skin

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) Chronic (Delayed)

 No data available. No data available

# **Section 12 - Ecological Information**

# 12.1 Toxicity

Component	CAS	Data	Comments
Benzophenone (0.25% TO 0.45%)	1114-61-4	Crustacea: 24 Hour(s) EC50 Crustacea Daphnia magna 0.28 mg/L; Fish: 96 Hour(s) LC50 Fish fathead minnow 14.2 mg/L	

# 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

**Potential Environmental Effects** 

May cause long lasting harmful effects to aquatic life.

# **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** • 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 DSL	Canada NDSL	China	EU EINECS	
Diazo sensitizer	41432-19- 3	Yes	No	Yes	No	No	
Benzophenone	119-61-9	Yes	Yes	No	Yes	Yes	
			Inventory (Co	on't.)			
Component	Component CAS Japan ENCS Korea KECL New Zealand Philippines PICCS TSCA						
				11011 =0010110		100/1	
Diazo sensitizer	41432-19- 3	Yes	Yes	Yes	Yes	Yes	

## **Europe**

#### Other

EU - Endocrine Disrupters (COM (2001)262) - Candidate List of Substances

•Benzophenone 119-61-9 Group III Chemical •Diazo sensitizer 41432-19-3 Not Listed

#### Germany

#### **Environment**

Germany - Water Classification (VwVwS) - Annex 3

•Benzophenone 119-61-9 ID Number 2024, hazard class 2 - hazard to waters

•Diazo sensitizer 41432-19-3 Not Listed

#### Japan

#### Other

Japan - Chemical Substance Control Law (CSCL) - Examined Existing Chemical Substances

•Benzophenone 119-61-9 Non-biodegradable/Low bioconcentration
•Diazo sensitizer 41432-19-3 Not Listed

#### United States - California

# **Environment**

U.S. - California - Proposition 65 - Carcinogens List

•Benzophenone 119-61-9 carcinogen, initial date 6/22/12

•Diazo sensitizer 41432-19-3 Not Listed

# 15.2 Chemical Safety Assessment

• No Chemical Safety Assessment has been carried out.

#### 15.3 Other Information

• California Proposition 65: This product can expose you to a chemical known to the State of California to cause cancer:

Benzophenone CAS #119-61-9 <0.45%

### 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

H412 - Harmful to aquatic life with long lasting effects

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

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

P273 - Avoid release to the environment.

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.

Last Revision Date

**Preparation Date** 

Other Information

Disclaimer/Statement of Liability

• 07 February 2018

18 February 2020

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

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