

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 suppl	lier 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 aller reaction. 		
Precautionary statements			
Prevention of	 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 		
Can TD 15 /20/29/50	Safaty Data Shaat	Dago	

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.
ther Hazards

2.3 O

CLP No data available

UN GHS

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

2.1 Classification of th	e substance or mixture			
	 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. 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				
2.1 Classification of th	e substance or mixture			

2.1 01033111001101	the substance of 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 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	ne substance or mixture		
2.2 Label elements	 Skin Sensitization 1 - H317 		
2.2 Label elements	• Skin Sensitization 1 - H317 WARNING		
2.2 Label elements WHMIS 2015			
WHMIS 2015 2.2 Label elements WHMIS 2015 Hazard statements Precautionary statements	• May cause an allergic skin reaction - H317		
2.2 Label elements WHMIS 2015 Hazard statements Precautionary statements	• May cause an allergic skin reaction - H317		
2.2 Label elements WHMIS 2015 Hazard statements Precautionary statements Prevention	 WARNING Way cause an allergic skin reaction - H317 Harmful to aquatic life with long lasting effects - H412 Avoid breathing dust, fume, gas, mist, vapors and/or spray P261 Contaminated work clothing should not be allowed out of the workplace P272 Avoid release to the environment P273 		
2.2 Label elements WHMIS 2015 Hazard statements Precautionary statements Prevention Response	 WARNING Way cause an allergic skin reaction - H317 Harmful to aquatic life with long lasting effects - H412 Avoid breathing dust, fume, gas, mist, vapors and/or spray P261 Contaminated work clothing should not be allowed out of the workplace P272 Avoid release to the environment P273 Wear protective gloves/protective clothing/eye protection/face protection P280 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 		

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 Accordin		Classifications According to Regulation/Directive	Comments		
Diazo sensitizer	CAS: 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

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. 			
Еуе	• 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	5			
	 Fire fighters should wear complete protective clothing including self-contained 			

Section 6 - Accidental Release Measures

6.1 Personal precauti	ons, 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 pre	ecautions					
	 Avoid run off to waterways and sewers. 					
6.3 Methods and mate	erial for containment and cleaning up					
Containment/Clean-up Measures	 No special precautions or procedures are necessary. 					
6.4 Reference to othe	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 sa	afe handling					
Handling	 Use good safety and industrial hygiene practices. 					
7.2 Conditions for saf	e storage, including any incompatibilities					
Storage	 Store in a cool, dry place. 					
7.3 Specific end use(s	5)					

• 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

*** B**

Respiratory
Eye/Face
Hands
Skin/Body
General Industrial Hygiene Considerations
Environmental Exposure Controls

- Not required.
 - Wear protective eyewear (goggles, face shield, or safety glasses).
 - Wear appropriate gloves.
- Wear protective clothing apron or other impervious body coverings.
- Handle in accordance with good industrial hygiene and safety practice.
- 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, 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		
Acute toxicity				

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)	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)	No data available.
Chronic (Delayed)	No data available

Section 12 - Ecological Information

12.1 Toxicity

Component	CAS	Data	Comments
Benzophenone (0.25% TO 0.45%)	119-61-9	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 de	egradability	
	No data available	
12.3 Bioaccumulative p	otential	
	No data available	
12.4 Mobility in Soil		
	No data available	
12.5 Results of PBT and	d vPvB assessment	
	No data available	
12.6 Other adverse effe	cts	
Potential Environmental Effects	 May cause long lasting harmful effects to aquatic life. 	

Section 13 - Disposal Considerations

regulations.

13.1 Waste treatment methods

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

14.8 Other information

Not relevant.

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 (C	Con't.)				
Component	CAS	Japan ENCS	Korea KECL	New Zealand	Philippin	es PICCS	TSCA	
Diazo sensitizer	41432-19- 3	Yes	Yes	Yes	Yes		Yes	
Benzophenone	119-61-9	Yes	Yes	Yes	Yes		Yes	
Europe Other EU - Endocrin •Benzophenom •Diazo sensitizi	e .	s (COM (2001)262) -	Candidate List of S		119-61-9 11432-19-3	Group III Not Liste	Chemical	
Germany					11102 10 0			
Environment	ater Classifi	cation (VwVwS) - A	nnex 3					
•Benzophenone					119-61-9	ID Number 2024, hazard class 2 - hazard to waters		
 Diazo sensitiz 	zer				1432-19-3			
Japan								
Other Japan - Chemi	cal Substan	ce Control Law (CS	CL) - Examined Exi	sting Chemical Sub	stances			
•Benzophenone	•Benzophenone				119-61-9	Non-bioc bioconce	legradable/Low	
•Diazo sensitize	•Diazo sensitizer 41432-19-3 Not Listed							
United States	- Californ	ia						
Environment U.S Califor	nia - Propos	ition 65 - Carcinoge	ens List					
 Benzophenor 	ne				119-61-9	carcinog 6/22/12	en, initial date	
 Diazo sensitiz 	zer				41432-19-3	Not Liste	ed	
15.2 Chemic	al Safety	Assessment						

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	• 31 October 2014
Preparation Date	• 07 February 2018
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Preparation Date	 07 February 2018
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Other Information Disclaimer/Statement of Liability

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

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