

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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120137 Polycon Manual X-Ray Developer-LF T/M 2 x 25L

Revision 1
Revision date 2022-09-08

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name 120137 Polycon Manual X-Ray Developer-LF T/M 2 x 25L

1.3. Details of the supplier of the safety data sheet


Company	Champion Photochemistry Sdn Bhd
Address	Lot 28-B Mukim Batu Industrial Area 6 1/2 Miles Jalan Kepong 52000 Kuala Lumpur MALAYSIA
Web	www.championphotochemistry.com
Telephone	+603-6257 2600
Fax	+603-6257 2622

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	C; R35 Xn; R40-68 Xi; R43 R31 Symbols: C: Corrosive.
Main hazards	Causes severe burns. Limited evidence of a carcinogenic effect. May cause sensitisation by skin contact. Possible risk of irreversible effects.
2.1.2. Classification - EC 1272/2008	Skin Corr. 1A: H314; Skin Sens. 1: H317; Muta. 2: H341; Carc. 2: H351;

2.2. Label elements

Hazard pictograms	
Signal Word	Danger
Hazard Statement	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. Skin Sens. 1: H317 - May cause an allergic skin reaction. Muta. 2: H341 - Suspected of causing genetic defects . Carc. 2: H351 - Suspected of causing cancer .
Precautionary Statement: Prevention	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing should not be allowed out of the workplace.
Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water/ .

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2.2. Label elements

Precautionary Statement: Storage Precautionary Statement: Disposal	<p>P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 - IF exposed or concerned: Get medical advice/attention.</p> <p>P310 -Immediately call a POISON CENTER/doctor/ .</p> <p>P321 - Specific treatment (see on this label).</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P363 - Wash contaminated clothing before reuse.</p>
	P405 - Store locked up.
	P501 - Dispose of contents/container to hazardous or special waste collection point.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
DI Water		7732-18-5			60 - 70%		
Potassium Hydroxide	019-002-00-8	1310-58-3	215-181-3		5 - 10%	Xn; R22 C; R35	
Sodium Sulphite Anhydrous		7757-83-7	231-821-4		5 - 10%		
Potassium Sulfite Solution 65%w/v		10117-38-1	233-321-1		5 - 10%	Xi; R36/37/38 R31	
Hydroquinone		123-31-9	204-617-8		1 - 5%	Xn; R22-40-68 Xi; R41-43 N; R50	
Potassium Carbonate		584-08-7	209-529-3		1 - 3%	Xi; R36/37/38	
Pentasodium DTPA Solution 42%		140-01-2	205-391-3		1 - 3%	C; R35 Xn; R22-40	
Sodium Tetraborate		12179-04-3	215-540-4		1 - 3%		
Hydroxymethylphenidone (Dimezone-S)		13047-13-7	235-920-3		0 - 0.5%	Xi; R36/37/38	

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
DI Water		7732-18-5			60 - 70%		
Potassium Hydroxide	019-002-00-8	1310-58-3	215-181-3		5 - 10%	Acute Tox. 4: H302; Skin Corr. 1A: H314;	
Sodium Sulphite Anhydrous		7757-83-7	231-821-4		5 - 10%		
Potassium Sulfite Solution 65%w/v		10117-38-1	233-321-1		5 - 10%		
Hydroquinone		123-31-9	204-617-8		1 - 5%	Acute Tox. 4: H302; Skin Sens. 1: H317; Eye Dam. 1: H318; Muta. 2: H341; Carc. 2: H351; Aquatic Acute 1: H400;	
Potassium Carbonate		584-08-7	209-529-3		1 - 3%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;	
Pentasodium DTPA Solution 42%		140-01-2	205-391-3		1 - 3%	Met. Corr. 1: H290; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; Repr. 2: H361d; STOT RE 2: H373;	
Sodium Tetraborate		12179-04-3	215-540-4		1 - 3%	Eye Irrit. 2: H319;	
Hydroxymethylphenidone (Dimezone-S)		13047-13-7	235-920-3		0 - 0.5%	Acute Tox. 4: H302; Skin Sens. 1: H317;	

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SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
Eye contact	Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention. Irritating to eyes.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	Ingestion causes burns to the respiratory tract. DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

	Not applicable. This product is not flammable.
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5.2. Special hazards arising from the substance or mixture

	Corrosive. Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Protective equipment. Wear suitable respiratory equipment when necessary. In case of fire and/or explosion do not breathe fumes.
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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

	Ensure adequate ventilation of the working area. Evacuate personnel to a safe area. Wear suitable protective equipment.
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6.2. Environmental precautions

	Do not allow product to enter drains. Prevent further spillage if safe.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a dry, well ventilated area. Keep containers tightly closed.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****8.1.1. Exposure Limit Values**

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8.1.1. Exposure Limit Values

Hydroquinone	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: 0.5 WEL 15 min limit mg/m3: - WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -
Potassium Carbonate	WEL 8-hr limit ppm: 370 mg/m3 WEL 15 min limit ppm: WEL 8-hr limit mg/m3 total inhalable dust: WEL 8-hr limit mg/m3 total respirable dust:	WEL 8-hr limit mg/m3: WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total inhalable dust: WEL 15 min limit mg/m3 total respirable dust:
Potassium Hydroxide	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m3 total inhalable dust: - WEL 8-hr limit mg/m3 total respirable dust: -	WEL 8-hr limit mg/m3: - WEL 15 min limit mg/m3: 2 WEL 15 min limit mg/m3 total inhalable dust: - WEL 15 min limit mg/m3 total respirable dust: -

8.2. Exposure controls

8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
8.2.2. Individual protection measures	Wear chemical protective clothing.
Eye / face protection	Approved safety goggles.
Skin protection - Handprotection	Chemical resistant gloves (PVC).
Respiratory protection	Not required under normal conditions of use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light yellow
Odour	Odourless
Odour threshold	Not relevant
pH	10.55
Melting point	Not relevant
Initial boiling point	100 °C
Flash point	Not relevant
Evaporation rate	Not relevant
Flammability (solid, gas)	Not relevant
Upper Explosive Limit	Not relevant
Lower Explosive Limit	Not relevant
Vapour pressure	2300 Pa
Vapour density	Not relevant
Relative density	1.26
Partition coefficient (n-octanol/water)	Not relevant
Autotgnition temperature	Not relevant
Decomposition temperature	No data available
Viscosity	Not determined
Solubility	Miscible in water

SECTION 10: Stability and reactivity

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10.1. Reactivity

No dangerous reaction known.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reaction known.

10.4. Conditions to avoid

See "Fire Fighting Measures".

10.5. Incompatible materials

No relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation

May cause irritation to skin. Prolonged or repeated exposure may cause irritation to skin and mucous membranes.

Repeated or prolonged exposure

May cause allergic reactions in susceptible people. May cause severe irritation to eyes and skin.

11.1.4. Toxicological Information

Pentasodium DTPA Solution 42%	Dermal Rat LD50: > 5000mg/kg Inhalation Rat LC50/4 h: 5 mg/L	Oral Rat LD50: 5000 mg/kg
Potassium Carbonate	Oral Rat LD50: 1870 mg/kg	Dermal Rabbit LD50: > 2000 mg/kg
Sodium Sulphite Anhydrous	Oral Rat LD50: > 2610 mg/kg	
Sodium Tetraborate	Oral Rat LD50: 3305	Dermal Rabbit LD50: 2000

SECTION 12: Ecological information

12.1. Toxicity

Sodium Tetraborate	Daphnia EC50/48h: 133.000 mg/l Fish LC50/96h: 74.000 mg/l	Algae IC50/72h: 40.000 mg/l
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Not applicable.

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

Partition coefficient

Pentasodium DTPA Solution <0
42%

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

Not applicable.

12.6. Other adverse effects

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12.6. Other adverse effects

No other relevant information available.

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

Disposal methods

Do not empty into drains; dispose of this material and its container in a safe way. Do NOT mix with any other product. Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.

SECTION 14: Transport information

14.1. UN number

The product is not classified as dangerous for carriage.

14.2. UN proper shipping name

The product is not classified as dangerous for carriage.

14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.

14.4. Packing group

The product is not classified as dangerous for carriage.

14.5. Environmental hazards

The product is not classified as dangerous for carriage.

14.6. Special precautions for user

The product is not classified as dangerous for carriage.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

Further information

Information contained in the MSDS is to our best present knowledge correct and complete and is given in good faith but without warranty.

SECTION 16: Other information

Other information

Revision

This document differs from the previous version in the following areas:
2 - 2.1.2. Classification - EC 1272/2008.
2 - Hazard pictograms.
2 - Precautionary Statement: Prevention.
2 - Precautionary Statement: Response.
9 - 9.1. Information on basic physical and chemical properties (Relative density).
12 - 12.1. Toxicity.

Text of risk phrases in Section 3

R22 - Harmful if swallowed.
R31 - Contact with acids liberates toxic gas.
R35 - Causes severe burns.
R36/37/38 - Irritating to eyes, respiratory system and skin.
R40 - Limited evidence of a carcinogenic effect.
R41 - Risk of serious damage to eyes.
R43 - May cause sensitisation by skin contact.
R50 - Very toxic to aquatic organisms.
R68 - Possible risk of irreversible effects.

Text of Hazard Statements in Section 3

Acute Tox. 4: H302 - Harmful if swallowed.
Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.

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Other information

Skin Sens. 1: H317 - May cause an allergic skin reaction.
Eye Dam. 1: H318 - Causes serious eye damage.
Muta. 2: H341 - Suspected of causing genetic defects .
Carc. 2: H351 - Suspected of causing cancer .
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Skin Irrit. 2: H315 - Causes skin irritation.
Eye Irrit. 2: H319 - Causes serious eye irritation.
STOT SE 3: H335 - May cause respiratory irritation.
Met. Corr. 1: H290 - May be corrosive to metals.
Acute Tox. 4: H332 - Harmful if inhaled.
Repr. 2: H361d - Suspected of damaging the unborn child.
STOT RE 2: H373 - May cause damage to organs through prolonged or repeated exposure .

Further information

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.