

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 1/6

180108 Multicontrast Developer T/M 2x25L

Revision 2
Revision date 2016-11-28

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

1.1. Product identifier

Product name	180108 Multicontrast Developer T/M 2x25L
---------------------	--

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	Xn; R22-40-68 Xi; R41-43 R31 Symbols: Xn: Harmful.
Main hazards	Harmful if swallowed. Contact with acids liberates toxic gas. Limited evidence of a carcinogenic effect. Risk of serious damage to eyes. May cause sensitisation by skin contact. Possible risk of irreversible effects.
2.1.2. Classification - EC 1272/2008	Acute Tox. 4: H302; 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	Acute Tox. 4: H302 - Harmful if swallowed. 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. P270 - Do not eat, drink or smoke when using this product. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/protective clothing/eye protection/face protection.

180108 Multicontrast Developer T/M 2x25L

Revision 2

Revision date 2016-11-28

2.2. Label elements

Precautionary Statement: Response	<p>P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.</p> <p>P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 - IF ON SKIN: Wash with plenty of water/ .</p> <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>P330 - Rinse mouth.</p> <p>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P363 - Wash contaminated clothing before reuse.</p>
Precautionary Statement: Storage	P405 - Store locked up.
Precautionary Statement: Disposal	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%		
Sodium metabisulphite	016-063-00-2	7681-57-4	231-673-0		10 - 20%	Xn; R22 Xi; R41 R31	
Hydroquinone		123-31-9	204-617-8		1 - 5%	Xn; R22-40-68 Xi; R41-43 N; R50	
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		0 - 0.5%	C; R35	

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%		
Sodium metabisulphite	016-063-00-2	7681-57-4	231-673-0		10 - 20%	Acute Tox. 4: H302; Eye Dam. 1: H318;	
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;	
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		0 - 0.5%	Skin Corr. 1A: H314;	

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

180108 Multicontrast Developer T/M 2x25L

Revision 2
Revision date 2016-11-28

5.1. Extinguishing media

Not applicable. This product is not flammable.

5.2. Special hazards arising from the substance or mixture

Corrosive. Burning produces irritating, toxic and obnoxious fumes.

5.3. Advice for firefighters

Protective equipment. Wear suitable respiratory equipment when necessary. In case of fire and/or explosion do not breathe fumes.

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.

6.2. Environmental precautions

Do not allow product to enter drains. Prevent further spillage if safe.

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.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with eyes and skin. Ensure adequate ventilation of the working area.

7.2. Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Hydroquinone	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 0.5
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -
Sodium hydroxide	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: 2
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -
Sodium metabisulphite	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m3: 5
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m3: -
	WEL 8-hr limit mg/m3 total inhalable dust: -	WEL 15 min limit mg/m3 total inhalable dust: -
	WEL 8-hr limit mg/m3 total respirable dust: -	WEL 15 min limit mg/m3 total respirable dust: -

8.2. Exposure controls



180108 Multicontrast Developer T/M 2x25L

Revision 2
Revision date 2016-11-28

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	Wear: Self-contained breathing apparatus.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Yellow
Odour	Slight
Odour threshold	Not relevant
pH	11.6
Melting point	Not relevant
Initial boiling point	Not determined
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	Not relevant
Vapour density	Not relevant
Relative density	1.294
Partition coefficient (n-octanol/water)	Not relevant
Viscosity	Not determined
Solubility	Soluble in water

SECTION 10: Stability and reactivity

10.2. Chemical stability

	Stable under normal conditions.
--	---------------------------------

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

	No data available
--	-------------------

SECTION 12: Ecological information

12.1. Toxicity

	No data available
	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

General information

180108 Multicontrast Developer T/M 2x25L

Revision 2

Revision date 2016-11-28

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 - Hazard pictograms. 9 - 9.1. Information on basic physical and chemical properties (Initial boiling point). 9 - 9.1. Information on basic physical and chemical properties (Melting point). 9 - 9.1. Information on basic physical and chemical properties (Flash point). 9 - 9.1. Information on basic physical and chemical properties (Flammability (solid, gas)). 9 - 9.1. Information on basic physical and chemical properties (Vapour pressure). 9 - 9.1. Information on basic physical and chemical properties (Viscosity). 9 - 9.1. Information on basic physical and chemical properties (Vapour density). 9 - 9.1. Information on basic physical and chemical properties (Evaporation rate). 9 - 9.1. Information on basic physical and chemical properties (Upper Explosive Limit). 9 - 9.1. Information on basic physical and chemical properties (Lower Explosive Limit). 9 - 9.1. Information on basic physical and chemical properties (Partition coefficient (n-octanol/water)). 9 - 9.1. Information on basic physical and chemical properties (Odour threshold).
Text of risk phrases in Section 3	R22 - Harmful if swallowed. R31 - Contact with acids liberates toxic gas. R35 - Causes severe burns. 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.

180108 Multicontrast Developer T/M 2x25L

Revision 2
Revision date 2016-11-28

Other information

Text of Hazard Statements in Section 3	R68 - Possible risk of irreversible effects. EUH031 - Contact with acids liberates toxic gas. Acute Tox. 4: H302 - Harmful if swallowed. Eye Dam. 1: H318 - Causes serious 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 . Aquatic Acute 1: H400 - Very toxic to aquatic life. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
---	--

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.
--	--