

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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120102 Devalex XD2 X-Ray Developer Replenisher Part A T/M 2x20L

Revision 2
Revision date 2022-08-17

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

1.1. Product identifier

Product name	120102 Devalex XD2 X-Ray Developer Replenisher Part A T/M 2x20L
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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 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. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statement: Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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2.2. Label elements

Precautionary Statement: Storage Precautionary Statement: Disposal	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 - IF exposed or concerned: Get medical advice/attention. P310 -Immediately call a POISON CENTER/doctor/ . P321 - Specific treatment (see on this label). P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P363 - Wash contaminated clothing before reuse.
	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			50 - 60%		
Hydroquinone		123-31-9	204-617-8		1 - 10%	Xn; R22-40-68 Xi; R41-43 N; R50	
Potassium Hydroxide	019-002-00-8	1310-58-3	215-181-3		1 - 10%	Xn; R22 C; R35	
Potassium Carbonate		584-08-7	209-529-3		1 - 10%	Xi; R36/37/38	
Sodium Tetraborate		12179-04-3	215-540-4		1 - 10%		
Diethylene glycol	603-140-00-6	111-46-6	203-872-2		1 - 10%	Xn; R22	

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			50 - 60%		
Hydroquinone		123-31-9	204-617-8		1 - 10%	Acute Tox. 4: H302; Skin Sens. 1: H317; Eye Dam. 1: H318; Muta. 2: H341; Carc. 2: H351; Aquatic Acute 1: H400;	
Potassium Hydroxide	019-002-00-8	1310-58-3	215-181-3		1 - 10%	Acute Tox. 4: H302; Skin Corr. 1A: H314;	
Potassium Carbonate		584-08-7	209-529-3		1 - 10%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;	
Sodium Tetraborate		12179-04-3	215-540-4		1 - 10%	Eye Irrit. 2: H319;	
Diethylene glycol	603-140-00-6	111-46-6	203-872-2		1 - 10%	Acute Tox. 4: H302;	

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

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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 dry, well ventilated area. Keep containers tightly closed.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Exposure Limit Values

Diethylene glycol	WEL 8-hr limit ppm:	23	WEL 8-hr limit mg/m3:	101
	WEL 15 min limit ppm:	-	WEL 15 min limit mg/m3:	-
	WEL 8-hr limit mg/m3 total	-	WEL 15 min limit mg/m3 total	-
	inhalable dust:		inhalable dust:	
	WEL 8-hr limit mg/m3 total	-	WEL 15 min limit mg/m3 total	-
	respirable dust:		respirable dust:	
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	-	WEL 15 min limit mg/m3 total	-
	inhalable dust:		inhalable dust:	
	WEL 8-hr limit mg/m3 total	-	WEL 15 min limit mg/m3 total	-
	respirable dust:		respirable dust:	
Potassium Carbonate	WEL 8-hr limit ppm:	370 mg/m3	WEL 8-hr limit mg/m3:	
	WEL 15 min limit ppm:		WEL 15 min limit mg/m3:	
	WEL 8-hr limit mg/m3 total		WEL 15 min limit mg/m3 total	
	inhalable dust:		inhalable dust:	
	WEL 8-hr limit mg/m3 total		WEL 15 min limit mg/m3 total	
	respirable dust:		respirable dust:	
Potassium 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	-	WEL 15 min limit mg/m3 total	-
	inhalable dust:		inhalable dust:	
	WEL 8-hr limit mg/m3 total	-	WEL 15 min limit mg/m3 total	-
	respirable dust:		respirable dust:	

8.2. Exposure controls

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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	Aqueous solution
Colour	Light yellow
Odour	Characteristic
Odour threshold	Not relevant
pH	11.03
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
Partition coefficient (n-octanol/water)	Not relevant
Autolignition temperature	Not relevant
Decomposition temperature	No data available
Viscosity	Not determined
Solubility	Soluble in water

9.2. Other information

Specific gravity	1.335
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SECTION 10: Stability and reactivity

10.1. Reactivity

	No dangerous reaction known.
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10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	No dangerous reaction known.
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10.4. Conditions to avoid

	See "Fire Fighting Measures".
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10.5. Incompatible materials

	No relevant information available.
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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

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.

12.2. Persistence and degradability

No data is available on this product.

12.3. Bioaccumulative potential

No data is available on this product.

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

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.

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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.
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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.
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SECTION 16: Other information

Other information

Revision

	This document differs from the previous version in the following areas:
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	2 - Hazard pictograms.
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	9 - 9.1. Information on basic physical and chemical properties (Initial boiling point).
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	9 - 9.1. Information on basic physical and chemical properties (Vapour pressure).
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Text of risk phrases in Section 3

	R22 - Harmful if swallowed.
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	R35 - Causes severe burns.
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	R36/37/38 - Irritating to eyes, respiratory system and skin.
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	R40 - Limited evidence of a carcinogenic effect.
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	R41 - Risk of serious damage to eyes.
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	R43 - May cause sensitisation by skin contact.
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	R50 - Very toxic to aquatic organisms.
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	R68 - Possible risk of irreversible effects.
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Text of Hazard Statements in Section 3

	Acute Tox. 4: H302 - Harmful if swallowed.
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	Skin Sens. 1: H317 - May cause an allergic skin reaction.
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	Eye Dam. 1: H318 - Causes serious eye damage.
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	Muta. 2: H341 - Suspected of causing genetic defects .
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	Carc. 2: H351 - Suspected of causing cancer .
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	Aquatic Acute 1: H400 - Very toxic to aquatic life.
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	Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
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	Skin Irrit. 2: H315 - Causes skin irritation.
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	Eye Irrit. 2: H319 - Causes serious eye irritation.
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	STOT SE 3: H335 - May cause respiratory irritation.
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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.
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