

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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### 120156 Devalex EV X-Ray Developer Replenisher Part A T/M 2X20L

Revision 2  
Revision date 2022-09-08

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

##### 1.1. Product identifier

<b>Product name</b>	120156 Devalex EV X-Ray Developer Replenisher Part A T/M 2X20L
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##### 1.3. Details of the supplier of the safety data sheet


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

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

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

##### 2.2. Label elements

<b>Hazard pictograms</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	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 .
<b>Precautionary Statement: Prevention</b>	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. 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.
<b>Precautionary Statement: Response</b>	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

<b>Precautionary Statement:</b> <b>Storage</b> <b>Precautionary Statement:</b> <b>Disposal</b>	<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>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		1 - 3%	Xn; R22 C; R35	
Sodium Sulfite Anhydrous		7757-83-7			10 - 20%		
Pentasodium DTPA Solution 42%		140-01-2	205-391-3		3 - 5%	C; R35 Xn; R22-40	
Diethylene glycol	603-140-00-6	111-46-6	203-872-2		3 - 5%	Xn; R22	
Hydroquinone		123-31-9	204-617-8		3 - 5%	Xn; R22-40-68 Xi; R41-43 N; R50	
Hydroxymethylphenidone (Dimezone-S)		13047-13-7	235-920-3		0.5 - 1%	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		1 - 3%	Acute Tox. 4: H302; Skin Corr. 1A: H314;	
Sodium Sulfite Anhydrous		7757-83-7			10 - 20%	STOT SE 3: H335;	
Pentasodium DTPA Solution 42%		140-01-2	205-391-3		3 - 5%	Met. Corr. 1: H290; Skin Irrit. 2: H315; Eye Irrit. 2: H319; Acute Tox. 4: H332; Repr. 2: H361d; STOT RE 2: H373;	
Diethylene glycol	603-140-00-6	111-46-6	203-872-2		3 - 5%	Acute Tox. 4: H302;	
Hydroquinone		123-31-9	204-617-8		3 - 5%	Acute Tox. 4: H302; Skin Sens. 1: H317; Eye Dam. 1: H318; Muta. 2: H341; Carc. 2: H351; Aquatic Acute 1: H400;	
Hydroxymethylphenidone (Dimezone-S)		13047-13-7	235-920-3		0.5 - 1%	Acute Tox. 4: H302; Skin Sens. 1: H317;	

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

<b>Inhalation</b>	Inhalation of vapour may cause shortness of breath. Move the exposed person to fresh air. Seek medical attention.
<b>Eye contact</b>	Causes burns. Causes severe inflammation and may damage the cornea. Seek medical attention. Irritating to eyes.

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## 4.1. Description of first aid measures

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

Diethylene glycol	WEL 8-hr limit ppm: 23 WEL 15 min limit ppm: - WEL 8-hr limit mg/m <sup>3</sup> total inhalable dust: - WEL 8-hr limit mg/m <sup>3</sup> total respirable dust: -	WEL 8-hr limit mg/m <sup>3</sup> : 101 WEL 15 min limit mg/m <sup>3</sup> : - WEL 15 min limit mg/m <sup>3</sup> total inhalable dust: - WEL 15 min limit mg/m <sup>3</sup> total respirable dust: -
Hydroquinone	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m <sup>3</sup> total inhalable dust: - WEL 8-hr limit mg/m <sup>3</sup> total respirable dust: -	WEL 8-hr limit mg/m <sup>3</sup> : 0.5 WEL 15 min limit mg/m <sup>3</sup> : - WEL 15 min limit mg/m <sup>3</sup> total inhalable dust: - WEL 15 min limit mg/m <sup>3</sup> total respirable dust: -
Potassium Hydroxide	WEL 8-hr limit ppm: - WEL 15 min limit ppm: - WEL 8-hr limit mg/m <sup>3</sup> total inhalable dust: - WEL 8-hr limit mg/m <sup>3</sup> total respirable dust: -	WEL 8-hr limit mg/m <sup>3</sup> : - WEL 15 min limit mg/m <sup>3</sup> : 2 WEL 15 min limit mg/m <sup>3</sup> total inhalable dust: - WEL 15 min limit mg/m <sup>3</sup> 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	Yellow
Odour	Slight
Odour threshold	Not relevant
pH	11.25
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
Autoignition temperature	Not relevant
Decomposition temperature	No data available
Viscosity	Not relevant
Solubility	Soluble in water

## 9.2. Other information

Specific gravity	1.281
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**SECTION 10: Stability and reactivity****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: &gt; 5000mg/kg

Oral Rat LD50: 5000 mg/kg

Inhalation Rat LC50/4 h: 5 mg/L

**SECTION 12: Ecological information****12.1. Toxicity**

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.

**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**

No other relevant information available.

**SECTION 13: Disposal considerations****General information**

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<b>General information</b>	
	Dispose of in compliance with all local and national regulations.
<b>Disposal methods</b>	
	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.
<b>SECTION 14: Transport information</b>	
<b>14.1. UN number</b>	
	The product is not classified as dangerous for carriage.
<b>14.2. UN proper shipping name</b>	
	The product is not classified as dangerous for carriage.
<b>14.3. Transport hazard class(es)</b>	
	The product is not classified as dangerous for carriage.
<b>14.4. Packing group</b>	
	The product is not classified as dangerous for carriage.
<b>14.5. Environmental hazards</b>	
	The product is not classified as dangerous for carriage.
<b>14.6. Special precautions for user</b>	
	The product is not classified as dangerous for carriage.
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	
	The product is not classified as dangerous for carriage.
<b>SECTION 15: Regulatory information</b>	
<b>Further information</b>	
	Information contained in the MSDS is to our best present knowledge correct and complete and is given in good faith but without warranty.
<b>SECTION 16: Other information</b>	
<b>Other information</b>	
<b>Revision</b>	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 (Initial boiling point). 9 - 9.1. Information on basic physical and chemical properties (Vapour pressure). 12 - 12.1. Toxicity.
<b>Text of risk phrases in Section 3</b>	R22 - Harmful if swallowed. 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.
<b>Text of Hazard Statements in Section 3</b>	Acute Tox. 4: H302 - Harmful if swallowed. Skin Corr. 1A: H314 - Causes severe skin burns and eye damage. STOT SE 3: H335 - May cause respiratory irritation. Met. Corr. 1: H290 - May be corrosive to metals. Skin Irrit. 2: H315 - Causes skin irritation. Eye Irrit. 2: H319 - Causes serious eye irritation.

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## Other information

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 .  
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.

## 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.