

## SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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### 150106 NatureCare RA 73 Developer Replenisher Part A T/M 4x10L

Revision 2  
Revision date 2018-07-25

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

##### 1.1. Product identifier

<b>Product name</b>	150106 NatureCare RA 73 Developer Replenisher Part A T/M 4x10L
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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>Main hazards</b>	No Significant Hazard
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##### 2.2. Label elements

<b>Risk phrases</b>	No Significant Hazard
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#### 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%		
Polyethylene Glycol 400		25322-68-3	500-038-2		10 - 20%		
Diethylene glycol	603-140-00-6	111-46-6	203-872-2		10 - 20%	Xn; R22	
Diethylhydroxylamine 85% w/w		3710-84-7	223-055-4		1 - 10%	Xn; R20/21 Xi; R36/37/38 R10-53	
Blankophor Reu-P 185%		82640-05-9			1 - 3%		
Potassium Chloride		7447-40-7	231-211-8		0.5 - 1%		
Fresh Air (WS) Reodorant					0 - 0.5%		

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## 3.2. Mixtures

## 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%		
Polyethylene Glycol 400		25322-68-3	500-038-2		10 - 20%		
Diethylene glycol	603-140-00-6	111-46-6	203-872-2		10 - 20%	Acute Tox. 4: H302;	
Diethylhydroxylamine 85% w/w		3710-84-7	223-055-4		1 - 10%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Acute Tox. 4: H312; Acute Tox. 4: H332;	
Blankophor Reu-P 185%		82640-05-9			1 - 3%		
Potassium Chloride		7447-40-7	231-211-8		0.5 - 1%		
Fresh Air (WS) Reodorant					0 - 0.5%		

## 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 cool, dry, well ventilated area. Keep containers tightly closed.
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## SECTION 8: Exposure controls/personal protection

## 150106 NatureCare RA 73 Developer Replenisher Part A T/M 4x10L

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## 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:	
Polyethylene Glycol 400	WEL 8-hr limit ppm:		WEL 8-hr limit mg/m3:	10mg/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:	

## 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	10.3
Melting point	Not relevant
Freezing Point	0 °C
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
Partition coefficient (n-octanol/water)	Not relevant
Autoignition temperature	Not relevant
Decomposition temperature	No data available
Viscosity	Not determined
Solubility	Soluble in water

## 150106 NatureCare RA 73 Developer Replenisher Part A T/M 4x10L

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## 9.2. Other information

Specific gravity	1.06
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## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

	Stable under normal conditions.
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## 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.
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## Repeated or prolonged exposure

May cause allergic reactions in susceptible people. May cause severe irritation to eyes and skin.
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## 11.1.4. Toxicological Information

No data available
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## SECTION 12: Ecological information

## 12.1. Toxicity

No data available
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Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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## SECTION 13: Disposal considerations

## General information

Dispose of in compliance with all local and national regulations.
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## 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.
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## SECTION 14: Transport information

## 14.1. UN number

The product is not classified as dangerous for carriage.
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## 14.2. UN proper shipping name

The product is not classified as dangerous for carriage.
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## 14.3. Transport hazard class(es)

The product is not classified as dangerous for carriage.
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## 14.4. Packing group

The product is not classified as dangerous for carriage.
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## 14.5. Environmental hazards

The product is not classified as dangerous for carriage.
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## 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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## 150106 NatureCare RA 73 Developer Replenisher Part A T/M 4x10L

Revision 2

Revision date 2018-07-25

**SECTION 16: Other information****Other information**

<b>Revision</b>	This document differs from the previous version in the following areas: 14 - ADR/RID. 14 - IMDG. 14 - IATA.
<b>Text of risk phrases in Section 3</b>	R10 - Flammable R20/21 - Harmful by inhalation and in contact with skin. R22 - Harmful if swallowed. R36/37/38 - Irritating to eyes, respiratory system and skin. R53 - May cause long-term adverse effects in the aquatic environment.
<b>Text of Hazard Statements in Section 3</b>	Acute Tox. 4: H302 - Harmful if swallowed. Flam. Liq. 3: H226 - Flammable liquid and vapour. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Acute Tox. 4: H312 - Harmful in contact with skin. Acute Tox. 4: H332 - Harmful if inhaled.

**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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### 150106 NatureCare RA 73 Developer Replenisher Part B T/M 4x10L

Revision 2  
Revision date 2018-07-25

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

##### 1.1. Product identifier

<b>Product name</b>	150106 NatureCare RA 73 Developer Replenisher Part B T/M 4x10L
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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>	Xn; R22 Xi; R43 N; R50/53 Symbols: Xn: Harmful. N: Dangerous for the environment.
<b>Main hazards</b>	Harmful if swallowed. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>2.1.2. Classification - EC 1272/2008</b>	Acute Tox. 4: H302; Skin Sens. 1: H317; Eye Irrit. 2: H319; Aquatic Chronic 1: H410;

##### 2.2. Label elements

<b>Hazard pictograms</b>	
<b>Signal Word</b>	Warning
<b>Hazard Statement</b>	Acute Tox. 4: H302 - Harmful if swallowed. Skin Sens. 1: H317 - May cause an allergic skin reaction. Eye Irrit. 2: H319 - Causes serious eye irritation. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
<b>Precautionary Statement: Prevention</b>	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. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ if you feel unwell. P302+P352 - IF ON SKIN: Wash with plenty of water/ . P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 - Specific treatment (see on this label).

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## 2.2. Label elements

<b>Precautionary Statement:</b> <b>Disposal</b>	P330 - Rinse mouth. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention. P391 - Collect spillage.
	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			30 - 40%		
4-(N-Ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate	612-134-00-2	25646-71-3	247-161-5		30 - 40%	Xn; R22 R43 N; R50/53	
Lithium Sulphate Solution 20%w/w		10377-48-7	233-820-4		30 - 40%	Xn; R22	
Potassium Metabisulphite		16731-55-8	240-795-3		0.5 - 1%	Xi; R37-41 R31	

## EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification	M-factor.
4-(N-Ethyl-N-2-methanesulphonylaminoethyl)-2-methylphenylenediamine sesquisulphate monohydrate	612-134-00-2	25646-71-3	247-161-5		30 - 40%	Acute Tox. 4: H302; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	
Lithium Sulphate Solution 20%w/w		10377-48-7	233-820-4		30 - 40%	Acute Tox. 4: H302;	
Potassium Metabisulphite		16731-55-8	240-795-3		0.5 - 1%	EUH031; Eye Dam. 1: H318; STOT SE 3: H335;	

## 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.
<b>Skin contact</b>	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	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.

## 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

## 8.2. 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	Brown
Odour	Unpleasant
Lower Explosive Limit	Not relevant
Vapour pressure	Not relevant
Vapour density	Not relevant
Partition coefficient (n-octanol/water)	Not relevant
Autoignition temperature	Not relevant
Decomposition temperature	No data available
Viscosity	Not determined
Odour threshold	Not relevant
pH	Not determined
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
Solubility	Miscible in water

## 9.2. Other information



## 150106 NatureCare RA 73 Developer Replenisher Part B T/M 4x10L

Revision 2

Revision date 2018-07-25

## 9.2. Other information

Specific gravity	1.18
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## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

	Stable under normal conditions.
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## 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.
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## Repeated or prolonged exposure

May cause allergic reactions in susceptible people. May cause severe irritation to eyes and skin.
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## 11.1.4. Toxicological Information

No data available
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## SECTION 12: Ecological information

## 12.1. Toxicity

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

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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## 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.
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## SECTION 14: Transport information

## 14.1. UN number

The product is not classified as dangerous for carriage.
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## 14.2. UN proper shipping name

The product is not classified as dangerous for carriage.
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## 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.
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## 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.
--

## 150106 NatureCare RA 73 Developer Replenisher Part B T/M 4x10L

Revision 2

Revision date 2018-07-25

**SECTION 16: Other information****Other information**

<b>Revision</b>	This document differs from the previous version in the following areas: 2 - Hazard pictograms. 14 - ADR/RID. 14 - IMDG. 14 - IATA.
<b>Text of risk phrases in Section 3</b>	R22 - Harmful if swallowed. R31 - Contact with acids liberates toxic gas. R37 - Irritating to respiratory system. R41 - Risk of serious damage to eyes. R43 - May cause sensitisation by skin contact. R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
<b>Text of Hazard Statements in Section 3</b>	Acute Tox. 4: H302 - Harmful if swallowed. Skin Sens. 1: H317 - May cause an allergic skin reaction. Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects. EUH031 - Contact with acids liberates toxic gas. Eye Dam. 1: H318 - Causes serious eye damage. STOT SE 3: H335 - May cause respiratory irritation.
<b>Further information</b>	
	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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### 150106 NatureCare RA 73 Developer Replenisher Part C T/M 4x10L

Revision 2  
Revision date 2018-07-25

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

##### 1.1. Product identifier

<b>Product name</b>	150106 NatureCare RA 73 Developer Replenisher Part C T/M 4x10L
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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 Xi; R37 Symbols: C: Corrosive.
<b>Main hazards</b>	Causes severe burns. Irritating to respiratory system.
<b>2.1.2. Classification - EC 1272/2008</b>	Skin Corr. 1A: H314; STOT SE 3: H335;

##### 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. STOT SE 3: H335 - May cause respiratory irritation.
<b>Precautionary Statement: Prevention</b>	P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P264 - Wash thoroughly after handling. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. P310 - Immediately call a POISON CENTER/doctor/ . P312 - Call a POISON CENTER/doctor/ if you feel unwell. P321 - Specific treatment (see on this label).

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## 2.2. Label elements

<b>Precautionary Statement:</b> <b>Storage</b>	P363 - Wash contaminated clothing before reuse.
	P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
	P405 - Store locked up.
<b>Precautionary Statement:</b> <b>Disposal</b>	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			40 - 50%		
Potassium Carbonate		584-08-7	209-529-3		30 - 40%	Xi; R36/37/38	
Potassium Hydroxide	019-002-00-8	1310-58-3	215-181-3		1 - 10%	Xn; R22 C; R35	
Dequest 2010		2809-21-4	220-552-8		1 - 5%		
Ethylenediaminetetraacetic Acid		60-00-4	200-449-4		1 - 3%	Xi; R36	

## 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			40 - 50%		
Potassium Carbonate		584-08-7	209-529-3		30 - 40%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;	
Potassium Hydroxide	019-002-00-8	1310-58-3	215-181-3		1 - 10%	Acute Tox. 4: H302; Skin Corr. 1A: H314;	
Dequest 2010		2809-21-4	220-552-8		1 - 5%		
Ethylenediaminetetraacetic Acid		60-00-4	200-449-4		1 - 3%	Eye Irrit. 2: H319;	

## 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.
<b>Skin contact</b>	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
<b>Ingestion</b>	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.
--	--

## 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
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## 6.1. Personal precautions, protective equipment and emergency procedures

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

Potassium Hydroxide	WEL 8-hr limit ppm: -	WEL 8-hr limit mg/m <sup>3</sup> : -
	WEL 15 min limit ppm: -	WEL 15 min limit mg/m <sup>3</sup> : 2
	WEL 8-hr limit mg/m <sup>3</sup> total -	WEL 15 min limit mg/m <sup>3</sup> total -
	inhalable dust:	inhalable dust:
	WEL 8-hr limit mg/m <sup>3</sup> total -	WEL 15 min limit mg/m <sup>3</sup> total -
	respirable dust:	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 -

Chemical resistant gloves (PVC).

## Handprotection

## Respiratory protection

Wear: Self-contained breathing apparatus.

## SECTION 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

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Revision 2

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## 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Liquid
<b>Colour</b>	Yellow
<b>Odour</b>	Odourless
<b>Odour threshold</b>	Not relevant
<b>pH</b>	14
<b>Melting point</b>	Not relevant
<b>Freezing Point</b>	0 °C
<b>Initial boiling point</b>	Not determined
<b>Flash point</b>	Not relevant
<b>Evaporation rate</b>	Not relevant
<b>Flammability (solid, gas)</b>	Not relevant
<b>Upper Explosive Limit</b>	Not relevant
<b>Lower Explosive Limit</b>	Not relevant
<b>Vapour pressure</b>	Not relevant
<b>Vapour density</b>	Not relevant
<b>Partition coefficient (n-octanol/water)</b>	Not relevant
<b>Autoignition temperature</b>	Not relevant
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	Not determined
<b>Solubility</b>	Soluble in water

## 9.2. Other information

<b>Specific gravity</b>	1.49
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## SECTION 10: Stability and reactivity

## 10.2. Chemical stability

	Stable under normal conditions.
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## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

<b>Skin corrosion/irritation</b>	May cause irritation to skin. Prolonged or repeated exposure may cause irritation to skin and mucous membranes.
<b>Repeated or prolonged exposure</b>	May cause allergic reactions in susceptible people. May cause severe irritation to eyes and skin.

## 11.1.4. Toxicological Information

	No data available
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## SECTION 12: Ecological information

## 12.1. Toxicity

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

## 12.3. Bioaccumulative potential

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## Partition coefficient

	Ethylenediaminetetraacetic Acid <0
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## SECTION 13: Disposal considerations

## General information

	Dispose of in compliance with all local and national regulations.
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## 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.

14 - ADR/RID.

14 - IMDG.

14 - IATA.

## Text of risk phrases in Section 3

R22 - Harmful if swallowed.

R35 - Causes severe burns.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R36 - Irritating to eyes.

## Text of Hazard Statements in Section 3

Skin Irrit. 2: H315 - Causes skin irritation.

Eye Irrit. 2: H319 - Causes serious eye irritation.

STOT SE 3: H335 - May cause respiratory irritation.

Acute Tox. 4: H302 - Harmful if swallowed.

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.