

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Page 1/6

140168 NatureCare SP20 EM Developer 4x1.5L T/M 4x13.3L

Revision 2
Revision date 2017-06-09

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

1.1. Product identifier

Product name	140168 NatureCare SP20 EM Developer 4x1.5L T/M 4x13.3L
---------------------	--

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; R34 Xi; R43 N; R51/53 Symbols: Xn: Harmful. N: Dangerous for the environment.
Main hazards	Causes burns. May cause sensitisation by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.1.2. Classification - EC 1272/2008	Skin Corr. 1A: H314; Skin Sens. 1: H317; Aquatic Chronic 2: H411;

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. Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Precautionary Statement: Prevention	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. P273 - Avoid release to the environment. 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. 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

140168 NatureCare SP20 EM Developer 4x1.5L T/M 4x13.3L

Revision 2

Revision date 2017-06-09

2.2. Label elements

Precautionary Statement: Storage Precautionary Statement: Disposal	lenses, if present and easy to do. Continue rinsing. 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. P391 - Collect spillage.
	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 Carbonate		584-08-7	209-529-3		1 - 5%	Xi; R36/37/38	
4-(N-Ethyl-N-2-methanesulphonylami noethyl)-2-methylphenylenediamine sesquisulphate monohydrate	612-134-00-2	25646-71-3	247-161-5		1 - 5%	Xn; R22 R43 N; R50/53	
Diethylene glycol	603-140-00-6	111-46-6	203-872-2		1 - 5%	Xn; R22	
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		1 - 5%	C; R35	
Diethylhydroxylamine 85% w/w		3710-84-7	223-055-4		0.5 - 1%	Xn; R20/21 Xi; R36/37/38 R10-53	
tetrasodium ethylene diamine tetraacetate	607-428-00-2	64-02-8	200-573-9		0.5 - 1%	Xn; R22 Xi; R41	

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 Carbonate		584-08-7	209-529-3		1 - 5%	Skin Irrit. 2: H315; Eye Irrit. 2: H319; STOT SE 3: H335;	
4-(N-Ethyl-N-2-methanesulphonylami noethyl)-2-methylphenylenediamine sesquisulphate monohydrate	612-134-00-2	25646-71-3	247-161-5		1 - 5%	Acute Tox. 4: H302; Skin Sens. 1: H317; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;	
Diethylene glycol	603-140-00-6	111-46-6	203-872-2		1 - 5%	Acute Tox. 4: H302;	
Sodium hydroxide	011-002-00-6	1310-73-2	215-185-5		1 - 5%	Skin Corr. 1A: H314;	
Diethylhydroxylamine 85% w/w		3710-84-7	223-055-4		0.5 - 1%	Flam. Liq. 3: H226; Asp. Tox. 1: H304; Acute Tox. 4: H312; Acute Tox. 4: H332;	
tetrasodium ethylene diamine tetraacetate	607-428-00-2	64-02-8	200-573-9		0.5 - 1%	Acute Tox. 4: H302; Eye Dam. 1: H318;	

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.

140168 NatureCare SP20 EM Developer 4x1.5L T/M 4x13.3L

Revision 2

Revision date 2017-06-09

SECTION 5: Firefighting measures**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	-
Sodium hydroxide	respirable dust:	-	respirable dust:	-
	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**8.2.1. Appropriate engineering controls**

Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Wear chemical protective clothing.

140168 NatureCare SP20 EM Developer 4x1.5L T/M 4x13.3L

Revision 2

Revision date 2017-06-09

8.2. Exposure controls

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/Orange
Odour	Slight
Odour threshold	Not relevant
pH	12
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

9.2. Other information

Specific gravity	1.12
------------------	------

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.
---------------------------	---

140168 NatureCare SP20 EM Developer 4x1.5L T/M 4x13.3L

Revision 2

Revision date 2017-06-09

11.1. Information on toxicological effects

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.

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

140168 NatureCare SP20 EM Developer 4x1.5L T/M 4x13.3L

Revision 2

Revision date 2017-06-09

Further information

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:
 9 - 9.1. Information on basic physical and chemical properties (Autoignition temperature).
 9 - 9.1. Information on basic physical and chemical properties (Decomposition temperature).

Text of risk phrases in Section

3

R10 - Flammable
 R20/21 - Harmful by inhalation and in contact with skin.
 R22 - Harmful if swallowed.
 R35 - Causes severe burns.
 R36/37/38 - Irritating to eyes, respiratory system and skin.
 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.
 R53 - May cause long-term adverse effects in the aquatic environment.

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 Sens. 1: H317 - May cause an allergic skin reaction.
 Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.
 Skin Corr. 1A: H314 - Causes severe skin burns and eye damage.
 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.
 Eye Dam. 1: H318 - Causes serious 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.