



AGRANA -Warm Up Outdoor SPF50 with CORN PO4 PHB.doc release 01, 05.06.2018 Page 1 of 2

Warm Up Outdoor SPF50 with CORN PO4 PH "B"

"Formulated and developed by GATTEFOSSE"

Ingredients

INCI-Name

%w/w Supplier

Phase A1	
DEMINERALIZED WATER	WATER

DEMINERALIZED WATER	WATER	45,10	-
PEMULEN™ EZ-4U	ACRYLATES/C10-30 ALKYL ACRYLATE	0,20	LUBRIZOL
	CROSSPOLYMER		

Phase A2

SATIAXANE CX91	XANTHAN GUM	0,10	CARGILL
BUTYLENE GLYCOL	BUTYLENE GLYCOL	3,00	-

Phase A3			
CORN PO4 PH "B"	DISTARCH PHOSPHATE	1,00	AGRANA

Phase A4

E.D.T.A. DISODIUM SALT DISODIUM EDTA	0,10	-
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Phase B1

EMULIUM® 22	TRIBEHENIN PEG-20 ESTERS	4,00	GATTEFOSSE
ACTICIRE®	JOJOBA ESTERS, HELIANTHUS ANNUUS	1,00	GATTEFOSSE
	(SUNFLOWER) SEED WAX, ACACIA DECURRENS		
	FLOWER WAX, POLYGLYCERIN-3		
CETOSTEARYL ALCOHOL	CETEARYL ALCOHOL	0,75	BASF
DPPG CG	PROPYLENE GLYCOL DIPELARGONATE	5,00	GATTEFOSSE
SCHERCEMOL DIS ESTER	DIISOPROPYL SEBACATE	3,00	LUBRIZOL
PARSOL MCX	ETHYLHEXYL METHOXYCINNAMATE	7,00	DSM
EUSOLEX 4360	BENZOPHENONE-3	2,50	MERCK
SOLASTAY S1	ETHYLHEXYL METHOXYCRYLENE	2,50	HALLSTAR
PARSOL 340	OCTOCRYLENE	5,00	DSM
TINOGARD TL	BENZOTRIAZOLYL DODECYL P-CRESOL	1,00	BASF
PARSOL EHS	ETHYLHEXYL SALICYLATE	5,00	DSM





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Phase B2

HALLBRITE EZ-FLO TDX	TITANIUM DIOXIDE, BUTYLOCTYL SALICYLATE,	12,00	HALLSTAR
	DIMETHICONE CROSSPOLYMER, SILICA,		
	TRICETEARETH-4 PHOSPHATE		

Phase C

SODIUM HYDROXIDE (10	WATER, SODIUM HYDROXIDE	0,80	-
SOL.)			

Phase D

PE 9010	PHENOXYETHANOL, ETHYLHEXYLGLYCERIN	0,70	-
PERFUME DOME RELAX	PARFUM	0,10	TECHNICO-FLO
RS59716			

Phase E

SODIUM HYDROXIDE (10	WATER, SODIUM HYDROXIDE	0,15	-
SOL.)			

Operating Instructions:

- A1 in beaker
- pre-disperse A2 and introduce into A1; to swell the gel with stirring
- add A3 and A4 in A.
- Heat A to 78 ° C
- Heat B to 78 ° C until complete solublization
- Make the emulsion at 75 $^\circ$ C slowly introduce B into A with vigorous stirring for 15 minutes.
- cool down with vigorous agitation 1000rpm pdt 30minutes
- A 35 °C introduce C and D, then E.
- RQ pH> 6.2

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