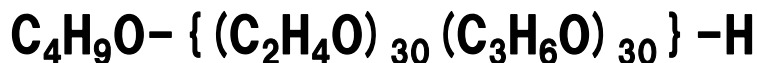




SOLBULE® BR-02

1 SOLBULE® BR-02

Chemical
Structure



Concept

Cleansing Agents with High detergency and Low irritation

INCI

PPG-30-BUTETH-30

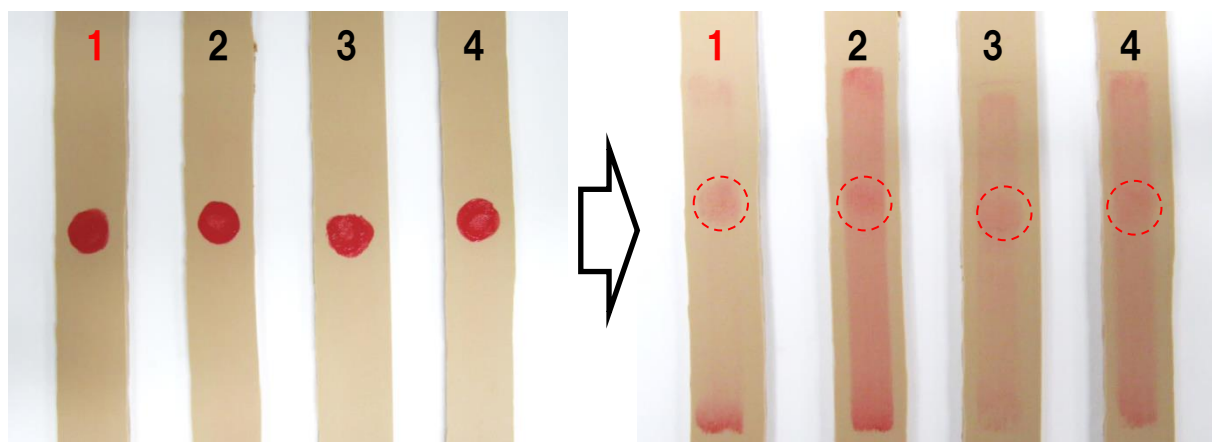
中文INCI

PPG-30-丁醇聚醚-30

2 Characteristics

- ① High detergency by original manufacture method
- ② Low irritation for eye and skin
- ③ Non-sticky feeling
- ④ No bitterness

3 Detergency



Run	INCI
1	PPG-30-BUTETH-30 (SOLBULE® BR-02)
2	PPG-30-BUTETH-30 (UNILUBE® 50MB-72)
3	PEG-8 CAPRYLIC/CAPRIC GLYCERIDES
4	PEG-7 GLYCERYL COCOATE

< Measuring instrument and condition >

Friction-Testing Machine RUBBING TESTER (TESTER SANGYO Co., Ltd.)
Weight : 200g , The number of reciprocating : 10

< Measuring method >

1. 5mg of lipstick was painted on artificial leather.
2. Cotton and artificial leather were attached on RUBBING TESTER. And 1mL of 5% aqueous solution was infiltrated on cotton.
3. Leather was rubbed and cleaned with cotton.

BR-02 has similar detergency to conventional polyether.

4 Compatibility

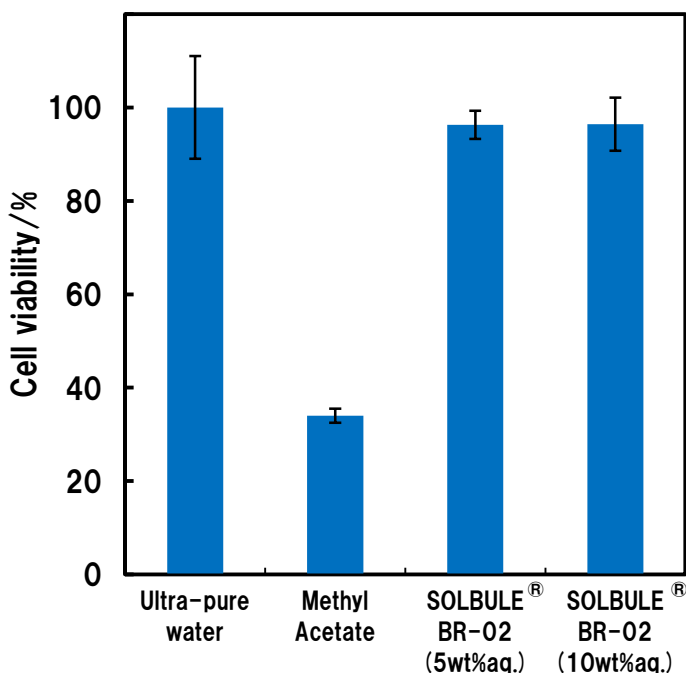
S : Soluble I : Insoluble

Category	Ingredients	1wt%	10wt%
Solvent	Water	S	S
	Glycerin	I	I
	Ethanol	S	S
	DPG	S	S
	PEG#400	S	S
	Oleic acid	S	S
Hydrocarbon	Squalane	S	S
	Hydrogenated Polyisobutene	S	S
	Liquid paraffin	I	I
Silicone	Dimethicone	I	I
	Cyclopentasiloxane	I	I
Triglyceride	Olive oil	I	I
	Triethylhexanoin	S	S
Ester	Isopropyl palmitate	S	S
	Ethylhexyl palmitate	I	I
	Ethyl oleate	S	S

BR-02 has a good compatibility with solvents or oils.

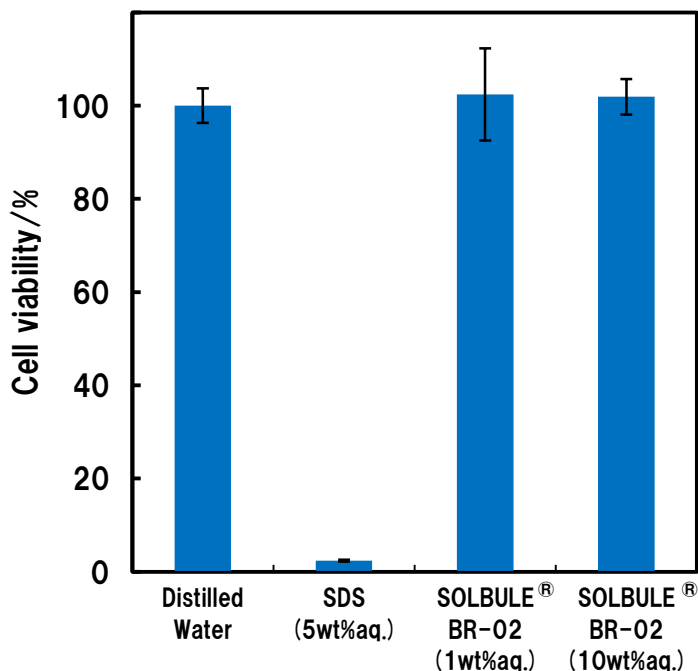
5 Safety Data

In vitro eye irritation test



<Sample> OCL-200EIT (MatTek Co.)
<Method> OECD TG492

In vitro skin irritation test



<Sample> LabCyte EPI-MODEL24 (J-TEC Co., Ltd.)
<Method> OECD TG439

Cleansing Water

Product name	INCI	wt%
SOLBULE® BR-02	PPG-30-BUTETH-30	3.0
WILBRIDE® S-753	PEG/PPG/POLYBUTYLENE GLYCOL-8/5/3 GLYCERIN	2.0
-	BUTYLENE GLYCOL	1.0
NONION LT-221	POLYSORBATE 20	0.8
WILSURF® EX	Listed	0.2
-	POLYQUATERNIUM-10	0.1
-	EDTA-2Na	0.1
-	WATER	92.8
Total		100

【Procedure】Weigh ingredients and mix uniformly at R.T.

pH6.0

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