

Rinse aid NONION for Oil Cleansing

1 Features

- The non-ionic surfactant that suits for the oil based make-up remover.
- Refreshing feeling after wash-off.
- Good compatibility with wide variety of oils.
- Mild to skin and eyes.

2 Structure and Specification

$\begin{array}{l} \text{—O—(C}_2\text{H}_4\text{O)}_a\text{—COR} \\ \text{—O—(C}_2\text{H}_4\text{O)}_b\text{—COR} \\ \text{—O—(C}_2\text{H}_4\text{O)}_c\text{—COR} \\ \text{—O—(C}_2\text{H}_4\text{O)}_d\text{—COR} \\ \text{—O—(C}_2\text{H}_4\text{O)}_e\text{—H} \\ \text{—O—(C}_2\text{H}_4\text{O)}_f\text{—H} \end{array}$ <p style="text-align: right;">R=Isostearic acid residue a+b+c+d+e+f=30</p>		
Parameter	Methods	Specification
Description	—	Colorless to yellowish clear viscous liquid, slightly specific odor
Acid Value(mg KOH/g)	JSQI	10max
Loss on Drying (%)	JSQI	3.0max(5 g, 105°C, 3hours)
Residue on Ignition(%)	JSQI	1.0max(No.3, 3 g)
HLB	Griffin	11.1
INCI	SORBETH-30 TETRAISOSTEARATE	
Chinese INCI	山梨醇聚醚-30 四异硬脂酸酯	

3 Functionality

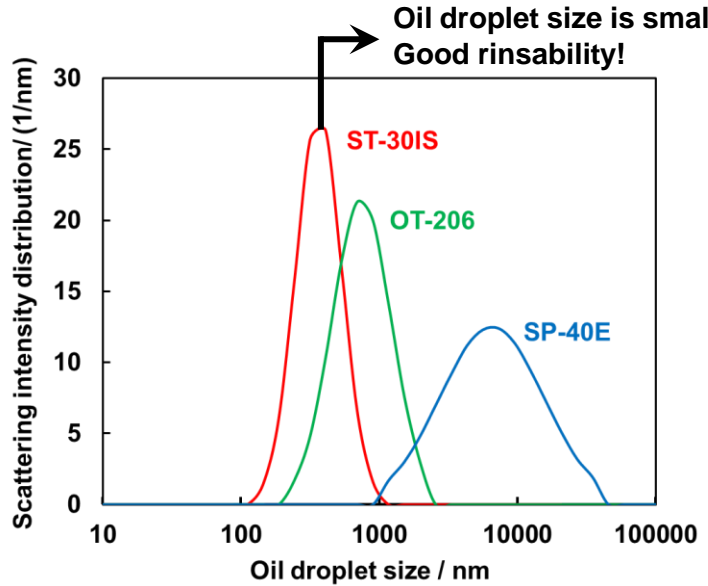
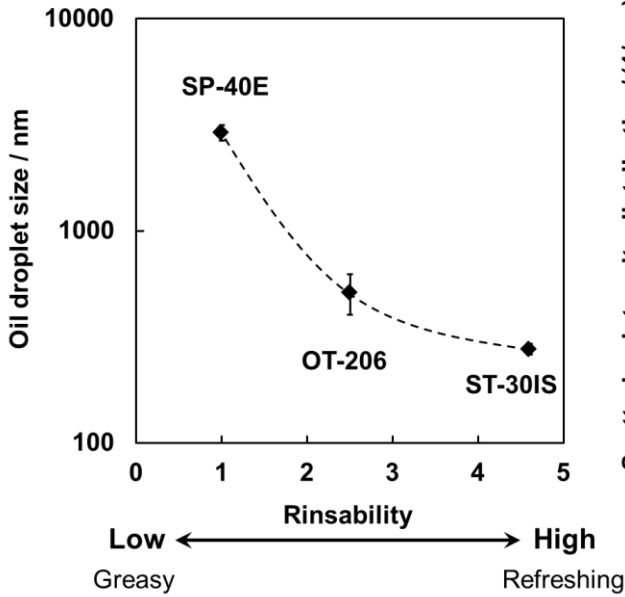
● Compatibility with Oils

Oils and surfactants are mixed in a ratio of 1:1, and mixture are visually observed at 25°C.

Surfactant	INCI	HLB	Liquid paraffin	Hydrogenated Polyisobutene	Olea Europaea Fruit OilL	Ethylhexyl Palmitate
UNIOX [®] ST-30IS	SORBETH-30 TETRAISOSTEARATE	11.1	I	S	S	S
NONION [™] OT-206	PEG-6 SORBITAN OLEATE	11.8	S	S	S	I
UNIOX [®] HC-20	PEG-20 HYDROGENATED CASTOR OIL	10.1	I	I	S	S
UNIOX [®] SP-40E	SORBETH-40 PENTAOLEATE	11.4	S	S	S	S

S:Soluble I:Insoluble

● Rinsability

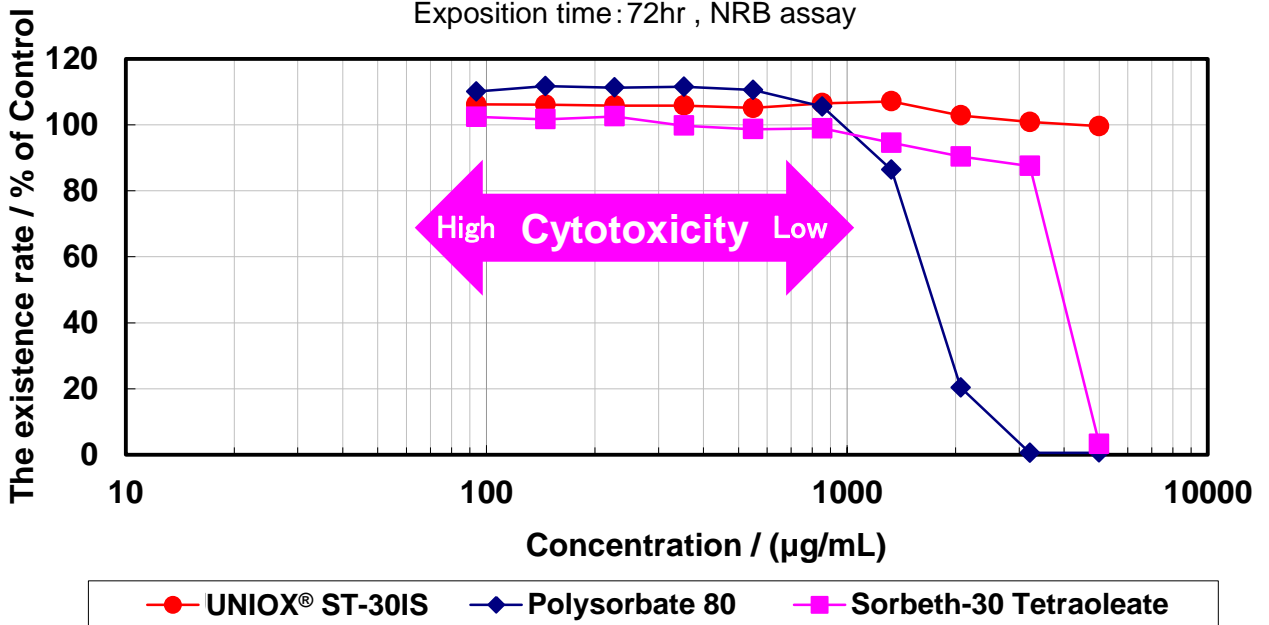


Equipment: Photal FP-3000, Particle size distribution meter(DLS)
 Measurement: Cleansing oils containing nonionic surfactants were diluted to 10 times with water.

Fine emulsion is prepared by diluting with water
➔ Good rinsability

● Cytotoxicity test

Tested in SIRC rabbit corneal cells for cytotoxicity.
 Medium: DMEM + 10%FBS , Density : 20,000cells/well,
 Exposition time : 72hr , NRB assay



Mild to skin and eyes

● Cleaning Oil

	NOF's products	INCI	wt.%
(1)	PARLEAM [®] 4	HYDROGENATED POLYISOBUTENE	40.0
(2)	UNIOX [®] ST-30IS	SORBETH-30 TETRAISOSTEARATE	26.0
(3)	NOFABLE [®] EO-85S	ETHYL OLEATE	8.0
(4)	NONION [™] LT-20	POLYSORBATE 20	8.0
(5)	NOFABLE [®] SO-851S	SORBITANE OLEATE	8.0
(6)	MACBIOBRIDE [®] MG-20P	PPG-20 METHYL GLUCOSE ETHER	4.0
(7)	—	CYCLOPENTASILOXANE	4.0
(8)	—	(Preservatives, pH adjuster, etc.)	q.s.
(9)	—	Water	balance
Total			100.00

Procedure: Put all ingredients into the beaker and mix uniformly at R.T..

● Cleaning Liquid (Bicontinuous Microemulsion)

	NOF's products	INCI	wt.%
(1)	IPP-R [™]	ISOPROPYL PALMITATE	10
(2)	PARLEAM [®] EX	HYDROGENATED POLYISOBUTENE	20
(3)	—	ISOSTEARIC ACID	2
(4)	STAFOAM [™] DFC	COCAMIDE DEA, GLYCERIN	2
(5)	UNIOX [®] ST-30IS	SORBETH-30 TETRAISOSTEARATE	10
(6)	UNILUBE [®] 50MB-11D	PPG-10 BUTETH-9, TOCOPHEROL	20
(7)	—	(Preservatives, pH adjuster, etc.)	q.s.
(8)	—	Water	balance
Total			100.00

Procedure: Put all ingredients into the beaker and mix uniformly at R.T..

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NOF CORPORATION

Oleo & Speciality Chemicals Div.

Head Office

Yebisu Garden Place Tower, 20-3 Ebisu 4-chome, Shibuya-ku, Tokyo 150-6019
TEL.+81-3-5424-6704 FAX.+81-3-5424-6810 <http://www.nof.co.jp/>

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