



Rhushabh Chemicals

Bringing Color to your Style

PHYSICAL AND ANALYTICAL DATA

ONYLPHENOL ETHOXYLATE

RHU CHEM	APPEARANCE AT 25° c	SPECIFIC GRAVITY	HYDROXYL VALUE	PH	HLB	MIN. INGREDIENT
NP-2	Pale Yellow	0.94-0.96	177±5	6.5-7.5	5.82	99%
NP-2.5	Colorless to clear viscous liquid	0.94-0.96	165±5	6.5-7.5	6.76	99%
NP-3.0	Colorless to clear viscous liquid	0.94-0.96	155±5	6.5-7.5	7.58	99%
NP-4.0	Colorless to clear viscous liquid	0.96-0.99	137±5	6.5-7.5	9.01	99%
NP-4.5	Colorless to clear viscous liquid	0.96-0.99	128±5	6.5-7.5	9.74	99%
NP-5.0	Colorless to clear viscous liquid	1.00-1.04	123±5	6.5-7.5	10.15	99%
NP-6.0	Colorless to clear viscous liquid	1.03-1.04	112±5	6.5-7.5	11.03	99%
NP-6.5	Colorless to clear viscous liquid	1.03-1.04	107±5	6.5-7.5	11.42	99%
NP-7.0	Colorless to clear viscous liquid	1.03-1.04	102±5	6.5-7.5	11.8	99%
NP-8.0	Colorless to clear viscous liquid	1.05-1.06	94±5	6.5-7.5	12.42	99%
NP-9.0	Colorless to clear viscous liquid	1.05-1.06	88±5	6.5-7.5	12.98	99%
NP-9.5	Colorless to clear viscous liquid	1.05-1.06	83±5	6.5-7.5	13.22	99%
NP-10	Colorless to clear viscous liquid	1.05-1.06	81±5	6.5-7.5	13.44	99%
NP-11	Colorless to clear viscous liquid	1.05-1.07	76±5	6.5-7.5	13.87	99%
NP-13	Colorless to clear viscous liquid	1.05-1.08	68±5	6.5-7.5	14.57	99%
NP-15	White waxy semi solid	1.05-1.08	62±5	6.5-7.5	15.00	99%
NP-18	White waxy semi solid	1.05-1.08	54±5	6.5-7.5	15.66	99%



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NP-20	White waxy semi solid	1.05-1.08	50±5	6.5-7.5	16.00	99%
NP-30	White to off white waxy solid	1.05-1.08	35±5	6.5-7.5	17.14	99%
NP-40	White to off white waxy solid	1.05-1.08	31±5	6.5-7.5	17.78	99%
NP-50	White to off white waxy solid	1.05-1.08	23±5	6.5-7.5	18.18	99%

OCTYLPHENOL ETHOXYLATE

RHU CHEM	APPEARANCE	PH	HLB	MOISTURE CONSTANT MAX.	SPECIFIC GRAVITY
OP-5	Pale Yellow to colorless hazy liquid	6.5-7.5	10.3	1%	0.97-1.00
OP-9.5	Pale yellow to colorless clear liquid	6.5-7.5	13.33	1%	1.05-1.06
OP-10	Pale yellow to colorless clear liquid	6.5-7.5	13.57	1%	1.05-1.06
OP-15	Pale yellow to colorless clear liquid	6.5-7.5	15.2	1%	1.06-1.09
OP-20	Pale yellow to semi waxy solid	6.5-7.5	16.18	1%	1.06-1.09
OP-30	Pale yellow to waxy solid	6.5-7.5	17.28	1%	1.07-1.10
OP-40	Pale yellow to waxy solid	6.5-7.5	17.88	1%	1.07-1.10
OP-50	Pale yellow to waxy solid	6.5-7.5	18.27	1%	1.07-1.10



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DODYCYLPHENOL ETHOXYLATE

RHU CHEM	APPEARANCE	HLB	MOISTURE	PH CONTENT MAX.
DDP-5	Pale yellow to colorless clear liquid	9.13	1%	6.5-7.5
DDP-10	Pale yellow to colorless clear liquid	12.54	1%	6.5-7.5
DDP-15	Pale yellow to colorless clear liquid	14.32	1%	6.5-7.5
DDP-20	Pale yellow to white waxy liquid	15.41	1%	6.5-7.5
DDP-30	Pale yellow to white waxy solid	16.69	1%	6.5-7.5
DDP-40	Pale yellow to white waxy solid	17.41	1%	6.5-7.5

▣ HLB BY DISPENSABILITY

	HLB Range
No dispensability in water	1-4
Poor dispersion	3-6
Milky dispersion after vigorous agitation	6-8
Stable milky dispersion	8-10
Translucent to clear dispersion	10-13
Clear solution	13+



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▣ HLB RANGES AND APPLICATIONS

HLB RANGE	APPLICATIONS
3-6	W/o. emulsifier
7-9	Wetting agent
9-13	O/w. emulsifier
13-15	Detergent
15-18	Solubilizer

▣ FOAMING PROPERTIES

Hydrophobic Group	nEO Volume (ml)	Foaming Formation Foam (min.)	Foam Stability Balance	Estimate Hydrophobic
RHU CHEM NP	4	10	1	0.4
	6	150	5	0.6
	10	150	5.5	1.0
	30	170	7	2.9
	50	165	6.5	4.8
RHU CHEM OP	5	40	2	0.5
	10	160	6	1.1
	20	170	15	2.1
	30	150	12	3.2



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☑ **FOAMING HEIGHT**

Hydrophobic Group	nEO Volume (ml)	Foam height Initial	(mm) 5min
RHU CHEM NP	6	15	10
	9.5	80	60
	10	110	80
	15	130	110
	20	120	110
	30	120	105
	40	115	105
	50	100	85

n = No of OXYETHYLENE (nEO = Mole)

Note: Above RHU CHEM Range are the running products. We can produce higher moles on customer specific demand and specifications can be altered as per customer requirement.

Thank you