

# NOVELUTION

## Product Portfolio

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Sasol Performance Chemicals



SASOL



NORTH AMERICA

Sasol Performance Chemicals is a global producer of innovative and high-performance products for the inks, paints, and coatings industry such as additives for emulsion polymerization, architectural coatings, tinting systems, wax emulsions and dispersions, building blocks for resins and associated thickener and surface modifiers.

This includes linear, branched and semi-branched fatty alcohols, nonionic and anionic additives, and polyethylene glycols.

Based on the broadest alcohol portfolio in the world, Sasol Organics offers with the NOVELUTION series, high performing alkyl phenol-free nonionic and anionic surfactants to assist in finding the ideal additive for different formulation systems in the world of inks, paints and coatings.

## Main Application Fields

Emulsion Polymerization	Architectural Coatings	Pigment Dispersions	Miscellaneous
<p>Anionic and nonionic surfactants, improving</p> <ul style="list-style-type: none"> <li>• Reaction efficiency</li> <li>• Product stability</li> <li>• Waterproofing behavior</li> </ul>	<p>Additives to improve</p> <ul style="list-style-type: none"> <li>• Color acceptance</li> <li>• Freeze-thaw stability</li> <li>• Rub resistance</li> <li>• Washability</li> </ul>	<p>Additives to improve</p> <ul style="list-style-type: none"> <li>• Color strength</li> <li>• Freeze-thaw stability</li> <li>• Viscosity Stability</li> </ul>	<ul style="list-style-type: none"> <li>• Speciality cleaner and degreaser for metals and plastics</li> <li>• Emulsifier for paraffins, waxes, resins</li> <li>• Resin building blocks</li> </ul>



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## NOVELUTION Product Portfolio

## Nonionic Emulsifiers

	Active matter	App at 20 °C	Kind of hydrophobe	HLB	Cloud point °C
NOVELUTION Z0630	100 %	Liquid	Linear	11.2	73 <sup>(1)</sup>
NOVELUTION Z1040	100 %	Liquid	Linear	10.5	60 <sup>(1)</sup>
NOVELUTION Z1080K	100 %	Liquid	Linear	13.8	81 <sup>(2)</sup>
NOVELUTION Z2630K	100 %	Liquid	Linear	10.6	64 <sup>(1)</sup>
NOVELUTION Z2670K	100 %	Liquid	Linear	12.2	60 <sup>(2)</sup>
NOVELUTION Z26120K	100 %	Pasty	Linear	14.6	72 <sup>(3)</sup>
NOVELUTION Z6860	100 %	Pasty	Linear	10.1	78 <sup>(2)</sup>
NOVELUTION Z68280	100 %	Solid	Linear	16.6	78 <sup>(3)</sup>
NOVELUTION Z68800	100 %	Solid	Linear	18.6	75 <sup>(3)</sup>
NOVELUTION N30*	100 %	Solid	Linear	5.3	tbd
NOVELUTION N60*	100 %	Solid	Linear	8.3	tbd
NOVELUTION N90*	100 %	Solid	Linear	10.3	tbd
NOVELUTION N120*	100 %	Solid	Linear	11.8	tbd
NOVELUTION N250*	100 %	Solid	Linear	15.0	tbd
NOVELUTION N500*	100 %	Solid	Linear	17.1	tbd
NOVELUTION N800*	100 %	Solid	Linear	18.1	tbd
NOVELUTION N1000*	100 %	Solid	Linear	18.5	tbd
NOVELUTION N1500*	100 %	Solid	Linear	18.9	tbd
NOVELUTION 330	100 %	Liquid	Branched	8.0	49 <sup>(1)</sup>
NOVELUTION 350	100 %	Liquid	Branched	10.5	65 <sup>(1)</sup>
NOVELUTION 370	100 %	Liquid	Branched	12.1	74 <sup>(1)</sup>
NOVELUTION 380	100 %	Liquid	Branched	12.8	77 <sup>(1)</sup>
NOVELUTION 390	100 %	Liquid	Branched	13.3	58 <sup>(2)</sup>
NOVELUTION 390K	100 %	Pasty	Branched	13.3	58 <sup>(2)</sup>
NOVELUTION 399K	90 %	Liquid	Branched	13.3	58 <sup>(2)</sup>
NOVELUTION 3100K	100 %	Pasty	Branched	13.7	75 <sup>(2)</sup>
NOVELUTION 3108K	80 %	Liquid	Branched	13.7	72 <sup>(2)</sup>
NOVELUTION 3130K	100 %	Pasty	Branched	14.8	57 <sup>(3)</sup>
NOVELUTION 3139K	90 %	Liquid	Branched	14.8	55 <sup>(3)</sup>
NOVELUTION 3300	100 %	Solid	Branched	17.3	76 <sup>(3)</sup>
NOVELUTION 3307	70 %	Liquid	Branched	17.3	76 <sup>(3)</sup>
NOVELUTION 3400	100 %	Solid	Branched	18.0	72 <sup>(3)</sup>

## Nonionic Emulsifiers

	Active matter	App at 20 °C	Kind of hydrophobe	HLB	Cloud point °C
NOVELUTION 3407	70 %	Liquid	Branched	18.0	73 <sup>(3)</sup>
NOVELUTION 3500	100 %	Solid	Branched	18.3	76 <sup>(3)</sup>
NOVELUTION 3505	50 %	Liquid	Branched	18.3	75 <sup>(3)</sup>
NOVELUTION 5301-85	85 %	Liquid	Branched	13.3	61 <sup>(2)</sup>
NOVELUTION 5302-65	65 %	Liquid	Linear	16.6	81 <sup>(2)</sup>
NOVELUTION 5464	100 %	Liquid	Linear	10.6	39 <sup>(1)</sup>
NOVELUTION 5486	100 %	Liquid	Linear	12.0	54 <sup>(3)</sup>
NOVELUTION 54RT64	100 %	Liquid	Linear	10.0	61 <sup>(3)</sup>
NOVELUTION LE07K	100 %	Liquid	Semi-branched	12.8	80 <sup>(1)</sup>
NOVELUTION LE217K	70 %	Liquid	Semi-branched	16.8	80 <sup>(2)</sup>
NOVELUTION LE407K	70 %	Liquid	Semi-branched	18.2	75 <sup>(2)</sup>

## Anionic Emulsifiers

	Active matter	App at 20 °C	Kind of hydrophobe	CMC ppm	Surface tension 1g/L @ 25°C, mN/m
NOVELUTION 333	ca. 27 %	Liquid	branched	230	35
NOVELUTION PA89N	ca. 90 %	Liquid	branched	50	33
NOVELUTION FES 104-L	ca. 27 %	Liquid	linear	200	34
NOVELUTION FES 107-L	ca. 27 %	Liquid	linear	100	37
NOVELUTION FES 112-L	ca. 27 %	Liquid	linear	220	34
NOVELUTION FES 130-L	ca. 27 %	Liquid	linear	240	36

## Polyethylene Glycols

	Active matter	App at 20 °C	Ethylene oxide	Hydroxyl number, mg KOH/g
NOVELUTION PEG 200	100 %	Liquid	4 mole	534–590
NOVELUTION PEG 300	100 %	Liquid	6 mole	356–394
NOVELUTION PEG 400	100 %	Liquid	8 mole	267–295
NOVELUTION PEG 600	100 %	Pasty	12 mole	178–197
NOVELUTION PEG 1000	100 %	Pasty	20 mole	107–118

<sup>(1)</sup> 10 % active matter in 25 % BDG solution, <sup>(2)</sup> 1 % active matter in water, <sup>(3)</sup> 1 % active matter in 10 % NaCl solution

\*Development Product

$$HLB = \frac{20 \times \text{molecular weight hydrophilic}}{\text{molecular weight total}}$$

### Quick Selection List NOVELUTION Nonionic Emulsifiers

	Color acceptance	Dispersing stability	Dynamic wetting	Emulsifier for FT waxes, paraffins	Freeze-thaw stability	Ink formulations	Pigment dispersing	Pigment wetting	Resin emulsifier	Low foam	Scrub resistance
NOVELUTION Z0630			•	•	•	•		•		•	
NOVELUTION Z1030			•	•	•	•		•		•	
NOVELUTION Z1080K			•	•	•	•		•		•	
NOVELUTION Z25640K	•			•		•		•			•
NOVELUTION Z2670K	•			•							•
NOVELUTION Z26120K				•							•
NOVELUTION Z6860	•		•			•					•
NOVELUTION Z68280		•					•		•		
NOVELUTION Z68800		•					•		•		
NOVELUTION N30			•		•	•	•	•	•	•	•
NOVELUTION N60						•	•		•	•	
NOVELUTION N90	•						•		•		
NOVELUTION N120	•			•			•		•		•
NOVELUTION N250		•		•			•		•		
NOVELUTION N500		•		•			•		•		
NOVELUTION N1000		•		•	•		•		•		
NOVELUTION N1500		•		•	•		•		•		
NOVELUTION 330			•		•	•		•	•	•	
NOVELUTION 350	•		•		•	•		•	•	•	
NOVELUTION 370	•		•					•	•		•
NOVELUTION 380	•			•				•			•
NOVELUTION 390	•			•				•			•
NOVELUTION 399K	•			•			•		•		•
NOVELUTION 3108K	•	•		•			•		•		•
NOVELUTION 3138	•	•		•			•		•		
NOVELUTION 3208				•			•		•		
NOVELUTION 3300		•					•		•		
NOVELUTION 3307		•					•		•		
NOVELUTION 3400		•					•		•		
NOVELUTION 3407		•					•		•		
NOVELUTION 3505		•		•			•		•		
NOVELUTION 5301-85		•		•		•	•		•		
NOVELUTION 5302-65				•		•	•		•		
NOVELUTION 5464	•		•	•		•				•	•
NOVELUTION 5486	•		•	•		•				•	•
NOVELUTION LE07K	•							•	•		•
NOVELUTION LE217K		•			•		•		•		
NOVELUTION LE407K		•			•		•		•		

# At Your Service

**Sasol Chemicals North America LLC**  
**12120 Wickchester Lane**  
**Houston, TX 77079**

## **Organics Division**

### Sales Information:

Telephone: +1 832-783-6390  
sasolsalesinfo@us.sasol.com

### Technical Customer Service:

Telephone: +1 832-783-6380  
techinfo@us.sasol.com



**sasol**

[www.sasolnorthamerica.com](http://www.sasolnorthamerica.com)