

Streak-Free Easy-Nxt-Cleaner

DOW

®





With the right products, getting rid of grease need not be a chore! Efficient cleaner created with convenience results in less time spent on household chores, and ***Dow has the Solution!***



Formulated with Dow's EcoSense™ SS-201 solvent surfactant blend and ACUSOL™ PRO Polymer, resulting in an efficient removal of greasy stains, coupled with easy-next-clean, leaving surfaces a streak-free shine.

No more annoyance with fingerprints especially on mirror surfaces!

Featured products

- **EcoSense™ SS-201** is a high-performance solvent surfactant blend with excellent detergency performance.
- **EcoSense™ 1200 HCG Surfactant** is a plant-based, readily biodegradable nonionic surfactant that produces moderate to high stable foam for use in applications such as liquid laundry detergents, hand dishwash liquids, floor cleaners, all-purpose cleaners, etc.
- **DOWANOL™ DPnB Glycol Ether**, a slow-evaporating, hydrophobic glycol ether with excellent surface tension-lowering ability and is useful in cleaning products by itself or when blended with other products. It is a good solvent for removing oils and greases.
- **XIAMETER™ OFX-193S Fluid** is a silicone polyether that acts as a surface tension depressant, wetting agent, foam builder and sensory enhancer in various home care applications.
- **ACUSOL™ PRO Polymer** is an anionically charged, water-soluble polymer that enables the formulator to develop streak-free, hard surface cleaners that provide for superior grease removal, and make next-time cleaning easier, without contributing to build-up.

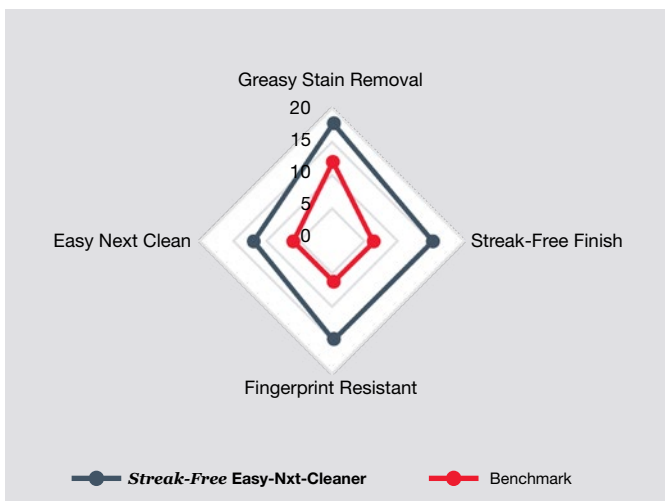
Formulation

Ingredients	Wt. % (ai)	Function
Deionized Water	q.s. to 100	Solvent
EcoSense™ SS-201	5.00	Cleaning
EcoSense™ 1200 HCG Surfactant	1.00	Cleaning
Denatured Alcohol	45.00	Solvent
DOWANOL™ DPnB Glycol Ether	0.50	Cleaning
XIAMETER™ OFX-193S Fluid	0.25	Wetting
ACUSOL™ PRO Polymer	0.10	Easy Next Clean
Preservative	q.s.	Preservative
Fragrance	q.s.	Scent
Dye	q.s.	Aesthetic

Procedure

1. Dissolve the ingredients one by one according to the sequence listed and mix well.

Performance Results



The *Streak-Free* Hard Surface Cleaner was evaluated by a group of 12 panelists based on the ability to remove greasy stains on different surfaces in the kitchen such as, refrigerators, cabinets and stove tops that are regularly exposed during cooking. Other areas of application for this product include various mirrored surfaces, such as windows and mobile phone screens.

This formula has demonstrated superior cleaning performance over the market benchmark product, while ensuring a streak-free finish with anti-fingerprint benefits. Next-time cleaning was also found to be easier and more efficient, hence enabling cleaning to be a hassle-free chore.

Your solution to greasy stain removal on hard surfaces leaving a streak-free finish and easy-next-clean!

EcoSense™ SS-201

Snapshot

- Excellent detergency enhancement
- Ready to formulate with other ingredients in hard surface cleaners
- Low odor
- Low toxicity
- Easy to use
- Favorable environment profile¹ – readily biodegradable, EPA Safer Choice, zero VOC and not HAP

Applications

- Kitchen cleaners and degreasers
- All-purpose cleaners
- Oven cleaners
- Wipes

¹EcoSense™ SS-201 solvent surfactant blend is readily biodegradable and passes OECD tests for ready biodegradability, ingredients in EcoSense™ SS-201 solvent surfactant blend meet US EPA (Environmental Protection Agency) Safer Choice Criteria, and not a source of VOCs (Volatile Organic Compounds) under the California Air Resources Board and US EPA criteria for consumer cleaning product applications, solvent in EcoSense™ SS-201 solvent surfactant blend is not HAPs (Hazardous Air Pollutants) under The Clean Air Act Amendments of 1990 (CAAA).

Typical Physical and Performance Properties

Appearance	Slightly yellow liquid
Actives (%)	100
Cloud point, 1% in water (°C)	50 - 70
Color, Pt-Co	50 max.
pH, 1% in water	4 - 8
Water (Wt.%)	0.6 max.
Water solubility at 20°C (Wt.%)	5.0
Recommended use level	5.0 - 7.0% as supplied

These values are not intended for use in preparing specifications

EcoSense™ 1200 HCG Surfactant

Snapshot

- Mild
- Soluble in alkaline solutions
- Produces moderate to high stable foam
- Low filming / streaking
- Good detergency and wetting properties
- Readily biodegradable

Applications

- Liquid laundry detergents
- Hand dishwash liquids
- Floor cleaners
- All-purpose cleaners
- Glass cleaners
- Metal cleaners
- Highly alkaline formulations

Typical Physical and Performance Properties

Appearance	Hazy pale yellow viscous liquid
Actives (%)	50.0 - 52.0
Cloud point, 1% in water (°C)	>100
HLB	11 - 13
Critical micellization concentration at 25°C (ppm)	74.3
Surface tension at 25°C, 0.1% actives (dynes/cm)	28.7
Ross-Miles foam height at 25°C, 0.1% actives, initial / 5 minutes (mm)	80 / 80
pH, 10% in water	11.5 - 12.5
Viscosity at 40°C (cSt)	4,000

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DOWANOL™ DPnB Glycol Ether

Snapshot

- Slow-evaporating, hydrophobic glycol ether
- Excellent surface tension-lowering ability
- Useful in cleaning products by itself or when blended with other products
- Good solvent for removing oils and greases
- Readily biodegradable

Applications

- Kitchen cleaners and degreasers
- All-purpose cleaners
- Glass cleaners
- Oven cleaners
- Metal cleaners
- Rust removers
- Fabric instant stain removers
- Laundry pre-spotters
- Liquid air fresheners

Typical Physical and Performance Properties

Appearance	Clear colorless liquid	
Actives (%)	100	
VOC exempt (vapor pressure < 0.1mm Hg at 20°C)	Yes	
Vapor pressure at 20°C (mm Hg)	0.04	
Evaporation rate (n-butyl acetate = 1.0)	0.006	
Flash point (Setaflash Closed Cup) (°C)	100.4	
Surface tension at 20°C (dynes/cm)	28.8	
Solubility at 25°C (%)	Solvent in water	4
	Water in solvent	10.4

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XIAMETER™ OFX-193S Fluid

Snapshot

- Wetting agent
- Surface tension depressant
- Suitable for clear systems
- Low usage levels
- Compatible with a wide range of surfactants
- Foam builder, forms a dense, stable foam
- Improve anti-fogging in glass cleaner
- Ability to be used in water-in-oil and water-in-silicone emulsions makes them unique to formulate non-VOC products

Applications

- Glass cleaners
- All-purpose cleaners
- Ironing aids
- Fabric sprays

Typical Physical and Performance Properties

Appearance	Clear to hazy liquid, light amber color, no significant particulate
Actives (%)	100
Viscosity at 25°C (cSt)	260
Specific gravity at 25°C	1.07
Cloud point, 1% in water (°C)	95 - 100
Recommended use level (Wt.%)	0.5 - 2.0

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ACUSOL™ PRO Polymer

Snapshot

- Superior grease removal
- Easy next-time cleaning
- Does not leave streaks or a film
- Leaves no visual residue
- Heat, age, freeze-thaw and quat stability²
- Easy to dose and incorporate into formulations
- Suitable for both neutral and alkaline cleaners
- Maintains formulation clarity
- Can be formulated with bleach

Applications

- Kitchen cleaners and degreasers
- Glass cleaners
- All-purpose cleaners
- Disinfectant screen wipes

²In normal trigger spray formulations containing up to 0.25% ADBAC quaternary disinfectant.

Typical Physical and Performance Properties

Appearance	Transparent to slightly hazy, yellowish liquid
Actives (%)	24 - 26
Odor	Mild, inoffensive odor
Viscosity, spindle 1, 30rpm (mPa.s)	100
pH, 10% in water	10.2 - 10.6
Recommended use level (% active)	0.5 - 1.0

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