



EXODIME range

Powerful Cleaning Agents



Powerful cleaning



/ EXODIME RANGE

Aminoxides are **powerful** and **biodegradable cleaning agents**. Their unique chemical structure shows excellent stability in strong acidic and alkaline environments. Aminoxides are used to break down stubborn stains and residues, making them essential ingredients in a wide range of cleaning products.

Different grades are available depending on your requirements.

Aminoxide	INCI-name	Active Matter (%)	NOI ¹	Preservative	Palm based	RSPO ²
Exodime FAO	Cocamine Oxide	30	0.87	-	✓	✓
Exodime CPO	Cocamidopropylamine Oxide	36	0.74	-	-	n.a.
Exodime CPO LA	Cocamidopropylamine Oxide	32	0.74	-	-	n.a.
Exodime D40	Decylamine Oxide	40	0	-	-	n.a.
Exodime LOA	Lauramine Oxide	30	0.86	-	✓	✓
Exodime LOX	Lauramine Oxide	30	0.86	-	✓	✓
Exodime M25	Myristamine Oxide	25	0.88	-	✓	✓
Exodime MAO	Myristamine Oxide	30	0.88	-	✓	✓

¹NOI: calculation of natural origin index is based on the renewable carbon content = C of natural origin/ total C – The calculation does not include water.

²RSPO: product also available in mass balance certified grade



/ EXODIME RANGE

Aminoxides are powerful nonionic surfactants that excel in removing dirt and grease.



/ KEY FEATURES

- Very versatile product range
- Degreasing
- Foaming and non-foaming agents
- Foam stabilizers
- Viscosity building properties (pH dependent)
- Mild to skin and eyes
- Mild conditioning properties

/ FORMULATOR BENEFITS

- Broad acid and alkaline stability
- Compatible with strong oxidizing agents
- Easy to handle liquids
- Low colour
- Cold processable

/ APPLICATIONS

Detergents

- Hand dishwashing liquids
- Hard surface cleaners
- Toilet cleaners
- Car care
- Chlorine bleaches

Personal Care

- Shampoos
- Shower and bath products
- Liquid soaps
- Bath foams
- Conditioners
- Hair mousses



- Derived from natural origin
- High renewable carbon index
- Readily biodegradable
- Available as RSPO Mass balance certified grade
- Vegan

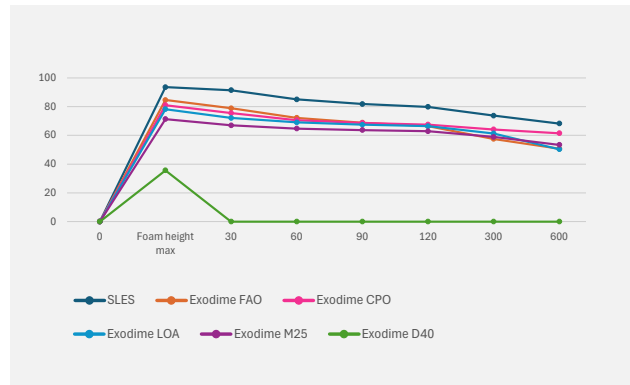


/ FOAMING PROPERTIES

The foam behaviour is studied with the Kruss Dynamic Foam Analyser.

Depending on the cleaning application, we have aminoxides that are excellent foaming to non-foaming. Exodime FAO, Exodime CPO and Exodime LOA show a relatively high flash foam. Exodime M25 is only medium foaming and Exodime D40 is low to non-foaming.

Measurement conditions: Sample concentration: 0.10% active in water - Temperature: RT - Air volume: 75ml - Measuring time: 600s



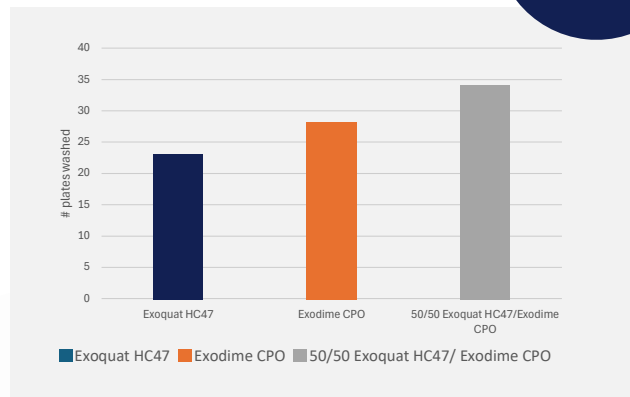
Graph 1: Foaming properties aminoxides.

/ HAND DISHWASHING PERFORMANCE

Evaluation of the cleaning performance in removing vegetable oils and animal fats according to an internal test protocol.

Hand dishwashing test formulation

Ingredients	% active
Co-surfactant	8
LES28	12
Sodium hydroxide	Qs to pH 8



Combination of Exodime CPO and EXOquat HC47 gives the best performance!

Graph 2: Hand dishwashing performance.

The higher the number of plates washed, the better the cleaning performance.

Excellent
cleaning performance



/ MULTI-PURPOSE CLEANING PERFORMANCE



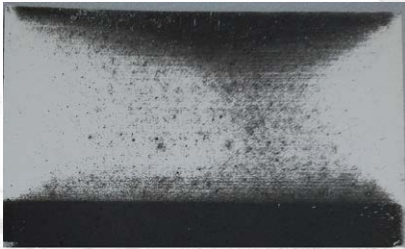
Evaluation of the cleaning performance of several aminoxides in removing fat and dust with a TQC Scrub Abrasion and Washability Tester according to an internal test protocol.

All purpose cleaner test formulation

Ingredients	% W/W
water	To 100
Surfactant (active)	2.0
Sodium carbonate	To pH 11

Viscosity: water thin

Aminoxides are an excellent choice for your hard surface cleaning application.

Exodime D40	Exodime LOA	Exodime CPO
		
INCI: Decylamine Oxide	INCI: Lauramine Oxide	INCI: Cocamidopropylamine Oxide
Readily biodegradable	Readily biodegradable	Readily biodegradable
	Ingredients of natural origin; RCI: 86%	Ingredients of natural origin; RCI: 74%

The more soil removed, the better the cleaning performance.

/ GUIDE FORMULATIONS

Hand dishwashing liquid – ref. 7822-13A

Ingredient	INCI Description	% W/W
Water	Aqua	60.8
LES28	Sodium Laureth Sulfate	28.6
Exoquat PK47	Cocamidopropyl Betaine	5.0
Exodime CPO	Cocamidopropylamine Oxide	5.6
Preservative	-	Qs
Citric acid	Citric Acid	Qs to pH 7.0
Sodium chloride	Sodium Chloride	Qs to 400 mPa.s

Clear Bleach Gel – ref. 4053363-21A

Ingredient	INCI Description	% W/W
Water	Aqua	68.2
NaOCl (2.2% active chlorine)	Sodium Hypochlorite	10.0
Sodium hydroxide (0.25M)	Sodium Hydroxide	10.0
LES28	Sodium Laureth Sulfate	1.8
Exodime M25	Myristamine Oxide	9.0
Exosoap PPZ	Potassium Cocoate	1.0
Sodium chloride	Sodium Chloride	Qs

pH: 12.0
Viscosity: 1000 mPa.s

Manual Car Wash Shampoo – ref. 16522-18A

Ingredient	INCI Description	% W/W
Water	Aqua	71.5
Dodecyl benzene sulfonic acid	Dodecyl Benzene Sulfonic Acid	19.5
Sodium hydroxide (50%)	Sodium Hydroxide	Qs to pH 8.0
Exodime CPO	Cocamidopropylamine Oxide	9.0
Preservative	-	Qs

Viscosity: 2000 – 3000 mPa.s
Concentrated formulation: dilute 1:100 with water before use





All-Purpose Cleaner – ref. 16778-21B

Ingredient	INCI Description	% W/W
Water	Aqua	Qs 100
Exodime LOA	Lauramine Oxide	6.7
Tetrasodium glutamate diacetate – 47%	Tetrasodium glutamate diacetate	0.1
Sodium carbonate	Sodium carbonate	Qs
Preservative	-	Qs

pH: 11.0
Viscosity: water thin

Concentrated All-Purpose Cleaner Refill – ref. 16778-22B

Ingredient	INCI Description	% W/W
Water	Aqua	Qs 100
Exodime LOA	Lauramine Oxide	67.0
Tetrasodium glutamate diacetate – 47%	Tetrasodium glutamate diacetate	0.1
Sodium carbonate	Sodium carbonate	0.5
Sodium hydroxide	Sodium Hydroxide	Qs
Preservative	-	Qs

pH: 12.0
Viscosity: water thin



Because we care

Refill

- 10x concentrated!
- Diluted at home
- Save plastic
- Reduce water transport





13 production sites



700 people



worldwide supplier

/ EOC GROUP WORLDWIDE PARTNER FOR SUSTAINABLE CHEMISTRY

EOC Group is a family-owned producer of chemical products with headquarters located in Belgium. Our product portfolio extends from compounds and latices to emulsions, surfactants, adhesives, technical textile chemicals, thermoplastic elastomers and polyurethanes. With a focus on sustainable entrepreneurship, we aim to produce high-quality products providing excellent service to our customers.

/ OUR STRENGTHS

- Standardized products or tailor-made solutions. We like to think along with your developments. Products can be changed, and enhanced up to your needs.
- Transparent communication.
- Reliable distribution: inhouse logistic fleet etc.
- Extensive technical support: our technical team is at your service for any type of question regarding your product, formulation and regulatory related enquiries.

/ BECAUSE WE CARE



We are committed to the 17 UN Sustainable Development Goals. Our R&D experts strive to search for sustainable raw materials and processes to offer alternatives to our customers. EOC continuously improves its sustainable processing by e.g.; heat recovery to induce electricity, windmill at Belgian production sites, re-use water project in production process, solar park, ...

We are a member of RSPO



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