

Product Information

SURFYNOL® 104 A

Non-ionic Dynamic Wetting Agent and Molecular Defoamer

PRODUCT DESCRIPTION

SURFYNOL® 104 A is a Gemini wetting agent and molecular defoamer with a unique chemical structure which allows this product to provide multifunctional properties such as surface tension reduction, foam control, and viscosity stabilization.

The hydrophobic nature can result in significantly reduced water sensitivity compared to either conventional ethoxylated or anionic surfactants.

SURFYNOL® 104 A contains no added alkylphenol ethoxylates (APEs), silicones or fluorosurfactants.

Typical Properties

Property	Unit	Value
Activity	%	50
Appearance		Clear, pale yellow liquid
Flash Point	°C	≤73
Pour Point	°C	-19
Specific Gravity at 21°C	g/ml	0.87
Viscosity at 20°C	mPa·s	100

The data represents typical values (no product specification)

TYPICAL APPLICATIONS

- Adhesives
- Flexible food packaging adhesives
- Pressure sensitive adhesives
- Pigment synthesis and grinding/dispersing
- Dye processing
- Metalworking fluids

BENEFITS & ADVANTAGES

- Low dynamic surface tension
- Ability to wet contaminated substrates
- Non-micelle forming
- Stability between pH 3-10
- Prevents surface defect problems such as fisheyes, crawling, and cratering on lowenergy substrates
- Reduces microfoam
- Reduces water sensitivity
- Defoams, de-airetrains, and improves flow
- Enhances leaf and soil penetration while improving bloom and stability in agricultural chemical formulations
- Lubricates, wets and prevents smut formation while eliminating hot spots in metalworking fluids

HANDLING & PROCESSING

Between 0.10 and 1.0% of total formulation weight is recommended.

STORAGE

Keep containers tightly closed in a dry, cool and well ventilated place. Product is freeze-thaw stable. If it phase separates or freezes at colder temperatures, warm container to 40°C and mix thoroughly before use. Please refer to material safety data sheet.

SHELF LIFE

60 months from the date of manufacture.

The shelf life period can be subject to prolongations based on reapprovals in accordance with the established Evonik ISO 9001 quality management process.

HAZARDOUS SUBSTANCE

Information concerning

- Classification and labelling according to regulations for transport and for dangerous substances
- Protective measures for storage and handling
- Measures in case of accidents and fire
- Toxicity and ecological effects

is given in our material safety data sheets.

REGISTRATION LISTING SUMMARY

The relevant components of SURFYNOL® 104 A are listed/registered or exempt in the following chemical inventories.

Registration Listings

Registry	Status
Australia (AIRC)	Yes
Canada (DSL)	Yes
China (IECSC)	Yes

Registration Listings

Registry	Status
EU (EINECS/ELINCS)	Yes
Japan (ENCS)	Yes
South Korea (TCCL)	Yes
New Zealand (NZIoC)	Yes
Philippines (PICCS)	Yes
Taiwan (TCSI)	Yes
USA (TSCA)	Yes

Disclaimer

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Evonik Operations GmbH

Interface & Polyurethane Additives
Goldschmidtstraße 100
45127 Essen
Germany