

## Carspray™ 300

Automotive drying / rinse aid

- Superior cationic emulsifier for mineral seal oils
- Promoting beading and rapid roll-off of rinse water
- Minimize spotting and streaking
- Works well at cold temperatures
- Freeze - thaw stable

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Carspray™ 300 drying aid is the premier cationic emulsifier for automatic car wash rinse aid formulations.

<b>Chemical and physical properties (not part of specifications)</b>	
Appearance (80 °C)	clear yellow liquid
Pounds/gallon (77 °F)	7.2 lbs
Flash point (PMCC)	50 °F

#### Properties

- superior beading properties
- Excellent emulsifier
- substantive to surface
- Helps protect finish
- Ease of formulation

#### Application

Used in automatic car wash and rinse aid formulations as a superior cationic emulsifier to promote beading and rapid roll-off of rinse water.

#### Formulation trouble shooting

<b>Problem</b>	<b>Possible cause</b>	<b>Possible solution</b>
Hazy or split formulation	Not enough coupler, i. e. butyl cellosolve	Continue mixing, adding coupler slowly, until formulation is clear
	Inadequate mixing	Mechanical agitation is recommended for best results
	Surfactant to oil ratio	Recommended surfactant to oil ration is 1 : 1
	Mineral oil specifications	Goldschmidt recommends the following mineral oils: Kermac 600 solvent (Ker McKee Oil), Diale A oil (Shell Oil), Isopar V (Exxon)
Performance	Not enough sheeting	Add Carspray™ 205
	Not enough beading	Add more Carspray™ 300 and MSO
	Not enough foam	Add TEGO™ Betain F 50

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**Packaging**

708 kg pallet (4 drums 177 kg)  
1 560 lbs pallet (4 drums 390 lbs)

**Storage and processing recommendation**

The product can be stored in sealed original package at temperatures between 20 °C (68 °F) and 25 °C (77 °F) for at least 6 months after date of delivery. At temperatures below 0 °C (32 °F) the product could be damaged.

Carspray™ 300 drying/rinse aid will recover after freezing without adversely affecting performance, simply allow it to come to room temperature and mix until homogeneous before using. Do not heat with open flame.

The product contains flammable liquid. Storage tanks should be used in accordance with local regulations in regard to storage of flammables.

**Please note**

Slight modifications to your final formulation may be necessary as the chain length distribution of the natural raw material stocks may vary.

Contact your local representative for more information on product safety.

**Hazardous goods classification**

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 fires
- toxicity and ecological effects

is given in our material safety data sheets.

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**Guideline Formulation**

Premium Carspray™ 300 concentrate	
	% by weight
Carspray™ 300 <sup>1)</sup>	20
Ethylene glycol monobutyl ether <sup>2)</sup>	5
Mineral seal oil <sup>3)</sup>	25
Water	50

1) Goldschmidt Chemical Corporation

2) Dowanol EB                      Dow Chemical Company

3) Mineral seal oil – select one of the following:

Witsol MSO	CK Witco Corporation
Semtol 40	CK Witco Corporation
Kermac 600 solvent	Calumet Lubes
Isopar V	Exxon Chemical

**Blending procedure**

Combine Carspray™ 300, ethylene glycol monobutyl ether and mineral seal oil in vessel and mix thoroughly. In a separate vessel weigh in the water. While mixing the water, pour the blended oils directly into the water vortex. Mix until solution is homogeneous.

There must be good mixing (good vortex) to emulsify easily. The quality of mixing will directly influence the ease of emulsion formation.

Use dilution (day-tank): 5 gallons concentrate to 50 gallons water.

Application rate: 2 – 50 ounces per car.

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