

Carspray™ 400

Carspray™ 400 is a superior emulsifier blend for car wash rinse aid/drying agent formulations promoting gloss, beading and sheeting

- Excellent sheeting action for fast drying
- Does not require non-ionic surfactant to create a microemulsion
- Superior freeze/thaw stability
- Minimizes spotting and streaking
- Premium blend optimized for best performance

Composition

Blend

CAS Number

61789-77-3 and 68155-39-5

Chemical and Physical Properties (Not Part of Specifications)

Appearance (25 °C/ 77 °F)	clear, amber liquid
Flash point (SETA)	20 °C (68 °F)
pH value (10 % in iso-propanol/water)	6 - 10
Freeze/thaw recovery	excellent

Packaging

Carspray™ 400 is available in 400 lb drums as well as in bulk.

Storage and processing recommendation

- DOT- Flammable Liquid NOS (Contains Isopropanol)
- Keep in closed or covered containers when not in use. Store in cool, dry place with adequate ventilation. Do not store near heat or open flame.
- Store in accordance with OSHA regulation 1910.106.
- Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities.
- Whenever possible, use mechanical means to move large and/or heavy objects to help prevent back injuries.
- CARSPRAY™ 400 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.

Storage and Processing

	Storage Temperature	Process Within
Container	20 °C– 25 °C (68 °F– 77 °F)	6 months

Hazardous goods classification

Information concerning

- Classification and labeling 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 provided on our material safety data sheets.

Applications

Used in automatic car wash rinse / drying aid formulations as a superior emulsifier blend to promote sheeting action and increased drying efficiency. Also used in manual car washes as a spot free post-rinse.

Formulation

Premium CARSPRAY™ 400 Rinse Aid Concentrate

	% by weight
CARSPRAY™ 400 ¹⁾	20
Ethylene glycol monobutyl ether ²⁾	5
Mineral seal oil ³⁾	25
Water, D. I.	50

1. Evonik Goldschmidt Corporation
2. Dowanol EB Dow Chemical Company
3. Mineral seal oil – select one of the following:
 - a. Kermac 600 (Calumet Lubes)
 - b. Kensol 61H (American Refinery)

Blending procedure

Combine CARSPRAY™ 400, ethylene glycol monobutyl ether and mineral seal oil in a vessel and mix thoroughly. Add the measured amount of water while mixing into the liquid 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 microemulsion formation.

Formulation Trouble Shooting

Problem	Possible Cause	Possible Solution
Hazy or split formulation	Not enough coupler, i.e. butyl cello solve	Continue mixing, adding coupler slowly, until formulation is clear
	Not enough emulsifier	Continue mixing, adding CARSPRAY™ 400 slowly until formulation is clear, recommended CARSPRAY™ 400 to oil ratio is 0.9–1:1 If formula becomes thick, add more coupler, i.e. butyl cellosolve, until thin
	Inadequate mixing	Mechanical agitation is recommended for best results
	Mineral seal oil specifications	Goldschmidt recommends the following seal oils: Kermac 600 (Calumet Lubes), Kensol 61H (American Refinery)

Please note

Slight modification to your final formulation may be necessary as the chain length distribution of the natural raw material stocks may vary or whenever a new batch of raw material is used in your formulas..

Product Safety

Slight modification to your final formulation may be necessary as the chain length distribution of the natural raw material stocks may vary or whenever a new batch of other raw materials (MSO, EB, etc.) is used in your formulas.

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