

Formulation

| Name | CAR WASH CONCENTRATE WITH COCAMIDE DEA ALTERNATIVE | | | | | | | | | | | | | | | | | | | | | |
|---|---|--|--------------------|----------------------|----------------|---------|------|-----------|-------|--------------------|-------|----------------------|------|----------|------|----------|------|----------|-------|--|--------------|---------------|
| No. | 1109 | | | | | | | | | | | | | | | | | | | | | |
| Description | This consumer-type formula is designed for easy dilution while generating a large amount of stable foam. | | | | | | | | | | | | | | | | | | | | | |
| Formulation | INGREDIENTS: Deionized Water Sodium Chloride BIO-SOFT® D-40 AMMONYX® LMDO Dye Fragrance Preservative | <table border="0"> <thead> <tr> <th style="text-align: left;"><u>% by Weight</u></th> <th style="text-align: left;"><u>Functionality</u></th> </tr> </thead> <tbody> <tr> <td>q.s. to 100.00</td> <td>Carrier</td> </tr> <tr> <td>0.25</td> <td>Thickener</td> </tr> <tr> <td>20.00</td> <td>Primary Surfactant</td> </tr> <tr> <td>10.00</td> <td>Secondary Surfactant</td> </tr> <tr> <td>q.s.</td> <td>Additive</td> </tr> <tr> <td>q.s.</td> <td>Additive</td> </tr> <tr> <td>q.s.</td> <td>Additive</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td>Total</td> <td style="text-align: right;">100.00</td> </tr> </tbody> </table> | <u>% by Weight</u> | <u>Functionality</u> | q.s. to 100.00 | Carrier | 0.25 | Thickener | 20.00 | Primary Surfactant | 10.00 | Secondary Surfactant | q.s. | Additive | q.s. | Additive | q.s. | Additive | <hr/> | | Total | 100.00 |
| <u>% by Weight</u> | <u>Functionality</u> | | | | | | | | | | | | | | | | | | | | | |
| q.s. to 100.00 | Carrier | | | | | | | | | | | | | | | | | | | | | |
| 0.25 | Thickener | | | | | | | | | | | | | | | | | | | | | |
| 20.00 | Primary Surfactant | | | | | | | | | | | | | | | | | | | | | |
| 10.00 | Secondary Surfactant | | | | | | | | | | | | | | | | | | | | | |
| q.s. | Additive | | | | | | | | | | | | | | | | | | | | | |
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| <hr/> | | | | | | | | | | | | | | | | | | | | | | |
| Total | 100.00 | | | | | | | | | | | | | | | | | | | | | |
| Procedure | 1. Charge tank with water. 2. Add ingredients in order shown above and mix until homogenous. | | | | | | | | | | | | | | | | | | | | | |
| Physical Properties | Appearance at 25°C | Clear liquid | | | | | | | | | | | | | | | | | | | | |
| | Viscosity at 25°C, cps | 830 | | | | | | | | | | | | | | | | | | | | |
| | pH, as is concentrate | 9.0 | | | | | | | | | | | | | | | | | | | | |
| | Solids, % | 11.25 | | | | | | | | | | | | | | | | | | | | |
| | VOC (calculated) as is, % | 0 | | | | | | | | | | | | | | | | | | | | |
| Storage/Stability | 4 weeks at 50°C | Stable | | | | | | | | | | | | | | | | | | | | |
| | 4 weeks at 25°C | Stable | | | | | | | | | | | | | | | | | | | | |
| | 4 weeks at 4°C | Stable | | | | | | | | | | | | | | | | | | | | |
| | Freeze/Thaw, 3 cycles | Stable | | | | | | | | | | | | | | | | | | | | |
| Instructions for Use | Dilute 1 ounce to 1 gallon of water (1:128). Mix and apply using a sponge. Rinse and dry the car surface. Foaming performance is unsurpassed to commercially available products in both Ross-Miles and Shake Foam Tests. | | | | | | | | | | | | | | | | | | | | | |
| External Comment | Marketing Notes: When used as per Stepan's recommendations, this formulation is VOC-compliant with U.S. Federal and California Air Resource Board (CARB) Consumer Products regulation for non-aerosol, motor vehicle wash (0.2% VOC limit as of December 31, 2012). BIO-SOFT® D-40 and AMMONYX® LMDO are approved ingredients on www.cleangredients.org . This formulation does not contain Nonylphenol Ethoxylates (NPEs). AMMONYX® LMDO is an alternate surfactant for those customers that do not want Cocamide DEA in their formulation. | | | | | | | | | | | | | | | | | | | | | |
| Registered Trademarks of Stepan Company | BIO-SOFT® AMMONYX® | | | | | | | | | | | | | | | | | | | | | |
| For Additional Assistance | For applications or product handling assistance, call our Technical Service Department at 1-800-745-7837 (U.S.) or 011-334-76-505-100 (Europe). For ordering assistance, call our Account Service Department at 1-800-457-7673. Nothing contained herein grants or extends a license, express or implied, in connection with patents, issued or pending, of the manufacturer or others. The information contained herein is based on the manufacturer's own study and the works of others. The manufacturer makes no warranties, expressed or implied, as to the accuracy, completeness, or adequacy of the information contained herein. The manufacturer shall not be liable (regardless of fault) to the vendee's employees, or anyone for any direct, special or consequential damages arising out of or in connection with the accuracy, completeness, adequacy or furnishing of such information. | | | | | | | | | | | | | | | | | | | | | |

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