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| <b>Compound Name: AG-WASH</b>           |
| <b>Synonyms: Formerly Known As: N/A</b> |

|                            |                            |              |  |
|----------------------------|----------------------------|--------------|--|
| <b>Product Information</b> | <b>Shipping Name</b>       | <b>DOT:</b>  | AG-WASH  |
|                            |                            | <b>IATA:</b> |  |
|                            |                            | <b>IMCO:</b> |  |
|                            | <b>Formula: See Below.</b> |              | <b>Chemical Family:</b><br>Quaternary Ammonium Compounds |

|                     | Material of Component  | %        | CAS # | Hazard Class                    |
|---------------------|--|----------|-------|---------------------------------|
| <b>Ingredients:</b> | Alkyl (C <sub>12</sub> - C <sub>16</sub> ) dimethyl benzyl ammonium chloride (CAS #68424-85-1) | 3.0-3.7% | ND    | <u>2</u> -<br><b>Health</b>     |
|                     | Octyl decyl dimethyl ammonium chloride (CAS #32426 -11-2)                                      | 2.2-2.9% | ND    | <u>0</u> - <b>Fire</b>          |
|                     | Diocetyl dimethyl ammonium chloride (CAS #5538-94-3)   | 1.0-1.5% | ND    | <u>0</u> -<br><b>Reactivity</b> |
|                     | Didecyl dimethyl ammonium chloride (CAS #7173-51-5)  | 1.0-1.9% | ND    | <u>0</u> - <b>Other</b>         |
|                     | INERTS   | Balance% | ND    | _____                           |

|                      |   |                                    |   |                  |
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| <b>Physical Data</b> | <b>Melting Point</b>                            | N/A                                | <b>Specific Gravity (H<sub>2</sub>O=1)</b>    | 0.990 -<br>0.998 |
|                      | <b>Boiling Point</b>                            | ND                                 | <b>Solubility in H<sub>2</sub>O (% by Wt)</b> | Soluble          |
|                      | <b>Vapor Pressure</b>                           | ND                                 | <b>% Volatiles by Weight</b>                  | ND               |
|                      | <b>Vapor Density (Air - 1)</b>                  | ND                                 | <b>Evaporation Rate (butyl acetate = 1)</b>   | ND               |
|                      | <b>Room Temperature, Appearance &amp; State</b> | Color-less to light straw in color | pH (as is)                                    | 4.1+/-0.3        |
|                      | <b>Odor</b>                                     | Benzaldehyde odor                  | pH (1% Solution)                              | 6.7              |

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| Fire,<br>Explosion<br>And<br>Reactivity<br>Data | <b>Flash point:</b> over 200°F   |   | Explosion (%)<br>Upper: ND<br>Lower: ND   |
|   | <b>Auto-ignition Temperature</b>   | ND  |   |
|   | <b>Extinguishing Media:</b><br><input checked="" type="checkbox"/> Water <input checked="" type="checkbox"/> Water Fog <input type="checkbox"/> CO <sub>2</sub> <input type="checkbox"/> Dry Chemical <input type="checkbox"/> Foam  |   |   |
|   | <b>Special Fire Fighting Procedures:</b><br>Cool fire exposed containers with spray. Must wear MSHA/NIOSH approved self-contained breathing apparatus.<br>Explosive mixtures can form with air. Combustion products are toxic.<br>Solvent vapors can travel to ignition source and flash back. |   |   |
|   | <b>Degree of Fire and Explosion Hazard:</b>  |   | ND    Stable <input checked="" type="checkbox"/> Unstable <input type="checkbox"/>    |
|   | <b>Hazardous Polymerization:</b>   |   | <input type="checkbox"/> May Occur <input checked="" type="checkbox"/> Will Not Occur |
|   | <b>Conditions to Avoid</b> - Mixing with strong oxidizers or reducing agents.  |   |   |
|   | <b>Major Contaminates that may contribute to instability</b> - Oxidizers and reducing agents.  |   |   |
|   | <b>Incompatibility</b> - Strong oxidizers and reducing agents  |   |   |
|   | <b>Hazardous Decomposition Products</b> - N/A  |   |   |
| Routes<br>Of<br>Exposure                        | <b>Route</b>   | <b>Hazard Classification:</b>   |   |
|   | Inhalation   | Irritation of mucous membrane can be caused by solvent vapors or mists of product.  |   |
|   | Skin Contact   | Irritation, Corrosive.  |   |
|   | Skin Absorption  | N/A   |   |
|   | Eye Contact  | Corrosive. Eye damage can result from direct contact.   |   |
|   | Ingestion  | May be fatal. Burning pain in the mouth, throat, abdomen, swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions. |   |

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| Effects<br>Of<br>Over-<br>exposure | <u>Acute Exposure:</u> ND   |
|                                    | <u>Chronic Exposure:</u> ND |

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| Emergency<br>And<br>First Aid<br>Procedures | <u>Eyes:</u> Immediately flush eyes with water for at least 15 minutes. Call physician.  |
|   | <u>Skin:</u> Immediately flush skin area with water for at least 15 minutes. Call a physician if inflammation results.   |
|   | <u>Inhalation:</u> Seek fresh air or well-ventilated area. Call a physician.   |
|   | <u>Ingestion:</u> If swallowed drink promptly, large quantity of egg whites, gelatin solution or, if these are not available, drink large quantities of water. Avoid alcohol. Call a physician immediately. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage. |
|   | Decontamination Procedures: Soda ash and absorbent.  |
|   | Note: If large dose (e.g. 20g) is ingested it may cause nausea and vomiting. If vomiting is not spontaneous, do not induce vomiting.   |

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| Special<br>Protection<br>Information | Ventilation Requirements:                  | Mechanical (Explosion proof)   |
|                                      | Recommended Personal Protection Equipment: | Splash proof safety goggles, Neoprene gloves, impervious apron, eyewash station, emergency shower and face shield. |
|                                      | Respiratory (Specify Conditions):          | None, if good ventilation is maintained.   |
|                                      | Eyes:                                      | Splash proof safety goggles or face shield.  |
|                                      | Glove:                                     | Neoprene or rubber gloves.   |
|                                      | Special Clothing And Equipment:            | Impervious apron.  |

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| <b>Precautionary Statement</b> | Danger "Keep Out Of Reach Of Children" |
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| <b>Storage And Handling</b> | Keep from freezing. Store in original container. |
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| <b>Disposal, Spill Or Leakage Procedures</b> | <b>Aquatic Toxicity Classification:</b>   | <b>Source</b> | <b>Date</b> |
|  | Hazardous to aquatic life. (fish)   | N/A           | N/A         |
|  | <b>Procedure for Release or Spill:</b> Remove ignition sources. Wear respirator. Small spills may be mopped up, flushed away with water or absorbed on some absorbent material and incinerated. Large spills should be contained; the material then moved into containers and disposed of by approved methods for hazardous wastes. |               |             |
|  | <b>Waste Disposal Method:</b> Incinerate. Make sure all federal, state and local regulations are observed.  |               |             |
|  | <b>Neutralizing Chemicals:</b> Soda Ashe  |               |             |

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| <b>Transportation Data</b> | <b>Proper Shipping Name</b>                       | NON-HAZ-MAT<br>Ship as AG WASH |
|                            | <b>DOT Classification:</b> Non-Hazardous Material |                                |
|                            | <b>DOT Labels:</b> N/A                            |                                |
|                            | <b>DOT Markings:</b> N/A                          |                                |
|                            | <b>DOT Placard:</b> N/A                           |                                |
|                            | <b>UN Number:</b> N/A                             |                                |
|                            | <b>Hazardous Substance / RQ:</b> N/A              |                                |
|                            | <b>49 STCC Number:</b> N/A                        |                                |

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|  | <u>Emergency accident precautions and procedures:</u>                              |
|  | <u>Precautions to be taken in transportation:</u><br>Secure load tightly in place. |
|  | CMA Chemcard Number: N/A   |
|  | Type of Packages: 55g Poly Drum, MBT, 5 g Pail.                                    |