JEFFSOL® AG-1555 Carbonate

JEFFSOL® AG-1555 carbonate is 40 CFR 180.950 and List 4A (minimal risk classification) approved for use in agricultural pesticide formulations. It is a clear, mobile, hygroscopic liquid at room temperature. This product is an excellent solvent for many organic and inorganic materials. It offers excellent performance as an adjuvant enhancement agent in agricultural pesticide formulations. JEFFSOL® AG-1555 carbonate can be used as a formulation component for tank mix adjuvants and as a solvent/co-solvent in emulsifiable and microemulsifiable concentrate formulations.

APPLICATIONS
- Solvent for pesticide formulations
- Veterinary topical formulations
- Component of tank adjuvants
- Minimal risk solvent

BENEFITS
- High Solvency
- Low toxicity
- Low odor
- High boiling point
- High flash point
- Low evaporation rate
- Low vapor pressure
- Readily biodegradable
- VOC Exempt in U.S.

SALES SPECIFICATIONS

<table>
<thead>
<tr>
<th>Property</th>
<th>Specifications</th>
<th>Test Method*</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Clear and substantially free of foreign matter</td>
<td>ST-30.1</td>
</tr>
<tr>
<td>Color, Pt-Co</td>
<td>40 max.</td>
<td>ST-30.12</td>
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<td>Water, wt%¹</td>
<td>0.1 max.</td>
<td>ST-31.53</td>
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<td>¹ Karl Fisher Assay</td>
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*Methods of Test are available from Huntsman Corporation upon request.

ADDITIONAL INFORMATION

Regulatory Information
- EPA Ag Approval: 40 CFR 180.950
- DOT/TDG Classification: Not regulated
- HMIS Code: 1-1-0
- WHMIS Classification: D2B
- CAS Number: 108-32-7

Chemical Control Laws
- Australia, AICS: Listed
- Canada, DSL: Listed
- Europe, EINECS/ELINCS: Listed
- Europe, REACH: Listed
- Japan, METI: Not determined
- United States, TSCA: Listed

Typical Physical Properties
- Boiling point, °C (°F): 242 (468)
- Density, g/mL, 20°C (68°F): 1.2
- Evaporation rate, 25°C: <0.005
- Flash point, PMCC, °C (°F): 135 (275)
- Melting point, °C (°F): -48 (-54)
- Vapor pressure, mm Hg, 20°C (68°F): 0.03
- Viscosity (Kinematic), cSt, 43.3°C (110°F): 1.6
- Weight, lb/gal, 20°C (68°F): 10.1
TOXICITY AND SAFETY
For information on the toxicity and safe handling of this product, consult the Material Safety Data Sheet (Safety Data Sheet in Europe) prior to use of this product.

HANDLING AND STORAGE
JEFFSOL® AG-1555 carbonate may be satisfactorily stored in carbon steel or stainless steel tanks using steel pipes and pumps. Because of the decomposition potential of carbonates, the tanks should be equipped with pressure relief devices and have an inert gas pad.

Satisfactory pump gasket materials include TEFLO®N fluoropolymer, EPR, neoprene, natural rubber, cork and polyethylene. Unsatisfactory gasket materials are BUNA N, HYPALON® chlorosulfonated polyethylene and VITON® fluoroelastomer.

BIODEGRADABILITY AND ENVIRONMENTAL SAFETY
Recent studies indicate that JEFFSOL® AG-1555 carbonate is very readily biodegradable. Values of up to 90% of Theoretical Oxygen Demand (ThOD) are obtained after 15 days at typical concentrations normally observed in waste water treatment plant and higher levels (250-2500 mg/l). Other recent studies indicate biodegradation of >90% after 28 days.

JEFFSOL® AG-1555 carbonate is practically nontoxic to rats by a single oral exposure or to rabbits by a single dermal exposure. This product is minimally irritating to the eyes and skin of rabbits and did not produce dermal sensitization in laboratory animals.

AVAILABILITY
JEFFSOL® AG-1555 is available in tank cars, tank wagons, and drums. Samples are available by contacting our sample department at 1-800-662-0924.