

Technical Bulletin**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

<u>Property</u>	<u>Specifications</u>	<u>Test Method*</u>
Appearance	Clear and substantially free of foreign matter	ST-30.1
Color, Pt-Co	40 max.	ST-30.12
Water, wt% ¹	0.1 max.	ST-31.53

¹ Karl Fisher Assay

*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

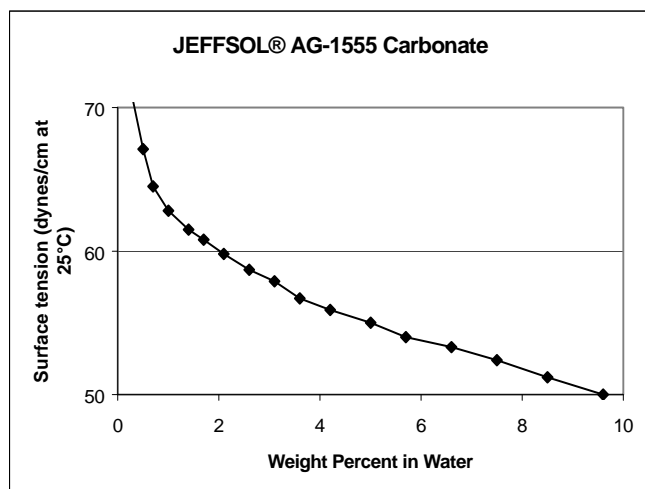
JEFFSOL[®] AG-1555 carbonate may be satisfactorily stored in carbon steel or stainless steel tanks using steel pipes and pumps. Because of the decomposition potential of carbonates, the tanks should be equipped with pressure relief devices and have an inert gas pad.

Satisfactory pump gasket materials include TEFLON[®] 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.

**Hansen Solubility Parameter**
(cal^{1/2} cm^{-3/2})

• Total	13.3
• Dispersive	9.8
• Polar	8.8
• Hydrogen bonding	2.0
• Dipole moment (Debyes 40°C)	4.98

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.

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Samples 1-800-662-0924

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