

HANDLING & STORAGE INSTRUCTIONS



TREATMENT RECOMMENDATIONS

- For an optimal handling experience, apply ANVOL® nitrogen stabilizer to the urea/UAN first and then proceed with adding additional products (e.g. ammonium sulfate, ammonium thiosulfate, etc.) to the blend.
- Blend urea treated with ANVOL for one minute per ton prior to introducing other fertilizer materials.

COLD WEATHER HANDLING

- Treating urea/UAN during cold times of the year may require additional attention to equipment used.
- Be aware that as temperatures fluctuate, the viscosity of ANVOL may change.
- Increased viscosity may impact a pump's ability to maintain constant flow rates.
- Diaphragm pumps with lower gallon per minute output can be affected more than positive displacement pumps.
- If treating in temps below 45 °F (7 °C), we advise the addition of the following to maintain uniform product temperature and flow rates:
 - Store tote in heated warehouse.
 - Add heat tape to lines.
 - Use a heat blanket if tote is to be in cold temperatures during use.
- Check flow meter output and recalibrate if necessary. Note: viscosity changes may impact how flow meters read fluid delivery rates.
- Contact your KAS Territory Business Manager or Product Service Advisor with further questions.

ON-SITE BULK TANK STORAGE

- Store this product in tightly closed original container in a well-ventilated place and in accordance with local/regional/national/international regulations.
- Store at temperatures between 10 °F (-12 °C) and 100 °F (38 °C) and avoid contact with water.
- Avoid freezing. If the product is subjected to temperatures below 5 °F (-15 °C) for an extended period of time, it will become solid. If this occurs, move product to a warm location where the inside temperature of the product can be brought above 32 °F (0 °C). At this point, the product will return to its normal liquid state. Following these procedures, the product may be used normally. No degradation of active ingredient will occur with the product that has been frozen.
- Avoid high temperatures. Long-term storage at temperatures above 100 °F (38 °C) and long-term storage of open containers will cause the product to degrade. As the product degrades, it can release harmful gases. Store below 100 °F (38 °C) and use opened containers within 30 days. Always use oldest stock first.

APPLICATION EQUIPMENT END OF SEASON CARE

- Rinsing equipment after ANVOL use: Water is the best option for rinsing this equipment following Best Management Practices.
- Winterizing equipment after ANVOL use: ANVOL is compatible with all common equipment winterizing solutions. Recommended solutions are those that contain ethylene glycols and propylene glycols.

ANVOL MATERIAL/PRODUCT COMPATIBILITY			ANVOL CHEMICAL COMPATIBILITY	
Material/Product	Rating	Comment	Chemical	Rating
Stainless Steel, Mild Steel, Carbon Steel	Yes		Urea	Yes
Tin, Aluminum	Yes		UAN	Yes
Copper, Brass, Zinc	Yes		Herbicides	Jar Test*
Teflon, Polyethylene (high density, low density, or crosslinked)	Yes		Strong Acids	No (unless neutralized)
Polyvinyl Chloride (PVC), Polypropylene	Yes		Weak Acids	Two Days
Buna N, Neoprene, EPDM, Silicone Red Rubber, Nitrile, Nylon	Yes		Bases	Yes
Viton	Caution	Swelling may occur. ANVOL caused a 2.2% swelling in Viton in 28 days at 113 °F (45 °C) following ASTM D4333		

*To test compatibility with crop protection chemicals or biologicals, conduct a jar test.

NFPA RATING, STORAGE TEMPERATURE AND SIGNAL WORD				
NFPA 704 Diamond Ratings			Minimum Storage Temperature °F (°C)	EPA Signal Word
Health	Flammability	Reactivity	10 °F (-12 °C)	Danger
3	1	0		

PRODUCT DENSITY VS. TEMPERATURE (POUNDS PER GALLON AT 60 °F (16 °C) IS 9.32)								
Temperature °F (°C)	4 (-15)	30 (-1)	40 (4)	50 (10)	60 (16)	70 (21)	80 (27)	90 (32)
Specific Gravity	1.136	1.124	1.120	1.118	1.117	1.112	1.110	1.105
Wt per Gallon (lbs/gal)	9.479	9.377	9.346	9.326	9.321	9.276	9.260	9.219
Viscosity (cP)	>6,000	762	577	235	137	119	70	53

No warranty, express or implied, is made, including, but not limited to, implied warranties of merchantability and fitness for a particular purpose, which are specifically excluded. Before use, consult the product packaging, labeling and safety data sheet for additional information regarding the product's characteristics, uses, safety, efficacy and health effects.