Liquid Ammonium and Potassium Thiosulfate Market to Hit $55B by 2031, Driven by Precision Farming | DataM Intelligence

Liquid Ammonium & Potassium Thiosulfate see rapid adoption in modern farming due to their efficiency, sustainability, and compatibility with fertigation.

Liquid Ammonium and Potassium Thiosulfate Market

AUSTIN, TX, UNITED STATES, July 17, 2025 /EINPresswire.com/ -- The Liquid Ammonium and Liquid Potassium Thiosulfate Market reached US$□27.2 billion in 2022 and is projected to grow steadily, reaching US$□55 billion by 2031, at a CAGR of 9.2% during the forecast period of 2024 to 2031. This remarkable growth trajectory is fueled by evolving trends in precision agriculture, sustainable fertilizer demand, and rising global food production pressures.

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> Liquid Ammonium and Potassium Thiosulfate market to surge from $27.2B in 2022 to $55B by 2031, driving a 9.2% CAGR through precision farming and sustainable agri-tech.”
>
> *DataM Intelligence*

Both liquid ammonium thiosulfate (ATS) and liquid potassium thiosulfate (KTS) are gaining traction as efficient nutrient solutions across diverse agricultural and industrial sectors. These compounds provide an optimal mix of nitrogen, potassium, and sulfur essential nutrients for healthy crop development while offering ease of application and compatibility with modern irrigation systems.

Market Dynamics

Growth Drivers

Adoption of Precision Agriculture: Modern farming practices are increasingly reliant on fertilizers that offer high absorption rates, precise application, and soil-friendly profiles. ATS and KTS meet these criteria, enhancing crop productivity while reducing fertilizer runoff.

Environmental Sustainability Push: Regulatory bodies and international farming organizations are encouraging the use of environmentally safer fertilizers. Liquid thiosulfates help reduce nitrogen loss to the atmosphere and leaching into groundwater, making them a preferred choice for sustainable agriculture.

Compatibility with Fertigation and Foliar Systems: Liquid thiosulfates are easily mixed with irrigation water and can be applied through fertigation or foliar feeding. This reduces application costs, saves labor, and improves nutrient delivery efficiency.

Growing Global Food Demand: With the global population expected to reach nearly 10 billion by 2050, agricultural intensification is inevitable. This increases the demand for high-efficiency fertilizers that support robust crop yields.

Market Challenges

Raw Material Volatility: Prices of key raw materials, such as sulfur and ammonia, can fluctuate due to geopolitical events, energy markets, and environmental regulations. These fluctuations affect production costs and profit margins for manufacturers.

Infrastructure Gaps in Developing Economies: Despite rising interest in liquid fertilizers, many regions still lack the infrastructure to store, transport, and apply them efficiently. This limits potential market penetration in parts of Africa and Southeast Asia.

Competition from Solid Fertilizers: Traditional granular fertilizers continue to dominate several large farming regions due to cost advantages and established distribution networks, presenting a competitive challenge to liquid alternatives.

Competitive Landscape

Key players in the market are investing in research and expanding their geographic footprint to meet growing demand. The competition is marked by strategic partnerships, acquisitions, and new product launches. Several companies are focusing on enhancing nutrient delivery technologies and developing customized fertilizer blends for different soil types and crops.

Major companies include:

Plant Food Company, Inc.
Hydrite Chemical
Tessenderlo Kerley International
Mears Fertilizer, Inc.
Martin Midstream Partners L.P.
Kugler Company
Poole Agribusiness
Shakti Chemicals
Omnia Specialities Pty
TerraLink Horticulture Inc.

These companies are also focusing on sustainability certifications and green labelling to appeal to environmentally conscious farmers and regulators.

Investment Landscape

The investment outlook for this market is highly promising, driven by innovation in product formulation, supply chain optimization, and technology integration in agriculture. Several manufacturers are investing in capacity expansion and R&D to improve the stability, shelf life, and multi-nutrient characteristics of their liquid fertilizer offerings.

Startups and major agrochemical companies are also collaborating with agri-tech firms to integrate liquid thiosulfates with smart irrigation systems, AI-powered nutrient planning, and climate-adaptive farming strategies. These investments are improving product performance while opening new avenues for profitability.

Market Segmentation

By Type: Liquid Ammonium Thiosulfate, Liquid Potassium Thiosulfate.
By Application: Fertilizers, Binder and Adhesive, Household and Industrial Cleaners, Fabrics, Water Treatment, Plastics, Others.
By End-User: Agriculture Industry, Textile Industry, Building and Construction Industry, Others.
By Region: North America, Europe, South America, Asia Pacific, Middle East, and Africa.

Regional Outlook

North America
This region leads the market due to the widespread adoption of precision agriculture and sustainable farming practices. The U.S. remains the largest consumer, benefiting from robust logistics, government subsidies for eco-friendly inputs, and a highly mechanized farming sector.

Europe
Sustainability regulations and stringent environmental policies are driving European farmers to transition toward liquid fertilizers. Countries like Germany, France, and the Netherlands are witnessing rapid growth in demand for ATS and KTS.

Asia-Pacific
This region is projected to be the fastest-growing market, led by China, India, and Japan. Agricultural modernization, coupled with increasing demand for high-value crops and governmental support, is fueling adoption.

Latest News – USA

The United States is witnessing significant momentum in liquid fertilizer adoption. In early 2025, several federal and state-level agricultural development programs prioritized climate-smart agriculture, leading to increased funding for liquid fertilizer producers.

New infrastructure investments in the Midwest aim to expand regional supply chains for ammonium and potassium thiosulfates. Additionally, a major agrochemical company announced the construction of a new thiosulfate production plant in Nebraska, aimed at boosting domestic output and reducing import dependency. The USDA has also rolled out incentives for adopting liquid nutrient systems as part of its sustainable agriculture strategy.

Latest News – Japan

Japan has intensified its focus on precision and smart farming in response to its aging farming population and shrinking arable land. In Q1 2025, Japanese agricultural cooperatives began piloting potassium thiosulfate-based liquid fertilizers integrated with automated drone spraying systems for rice and fruit crops.

Simultaneously, the Ministry of Agriculture, Forestry and Fisheries (MAFF) launched a grant program supporting innovations in low-emission nutrient solutions. Liquid thiosulfates, especially KTS blends, are at the forefront of this initiative due to their compatibility with drip irrigation and vertical farming setups gaining popularity in urban areas like Tokyo and Osaka.

Conclusion

The Liquid Ammonium and Liquid Potassium Thiosulfate Market is rapidly transitioning from a niche segment to a central pillar of global agricultural strategies. As climate change, food security, and sustainability take center stage, these liquid fertilizers offer an ideal blend of efficiency, environmental compatibility, and technological adaptability.

With significant growth expected through 2031, businesses that invest in innovation, regional expansion, and digital integration will be well-positioned to lead the next decade of agricultural

transformation. Whether through precision farming in the U.S. or high-tech agriculture in Japan, the future of liquid thiosulfates is undeniably robust.

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