

Chemical Risk & Sustainability Tech Market Forecasts to 2034 – Global Analysis By Technology Type (Risk Assessment & Compliance Software, Chemical Tracking & Monitoring Systems, Circular Economy Platforms, Sustainable Feedstock Technologies, Waste-to-Value Chemical Processes and Carbon Capture & Utilization (CCU) Technologies), Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Chemical Risk & Sustainability Tech Market is accounted for \$7.72 billion in 2026 and is expected to reach \$15.38 billion by 2034 growing at a CAGR of 9.0% during the forecast period. Chemical Risk & Sustainability Technology addresses the challenge of controlling chemical hazards while advancing sustainable business practices. It uses digital tools, databases, and analytics to track chemicals, assess risks, and meet complex regulatory requirements worldwide. These solutions support safer material choices, protect employees, and lower environmental footprints throughout product lifecycles. Enhanced visibility into supply chains allows companies to manage toxic substances, reduce pollution, and align with ESG targets. Growing compliance demands, corporate sustainability strategies, and customer expectations are accelerating the use of these technologies in sectors including industrial manufacturing, pharmaceuticals, and consumer-focused industries.

According to sustainability statistics published by industry sources, bioplastics currently represent approximately 0.5% of the over 400 million tonnes of plastic produced annually worldwide. Furthermore, global production capacity of bioplastics is projected to increase from 2.2 million tonnes in 2022 to 6.3 million tonnes in 2027, highlighting the

scaling of sustainable chemical technologies.

Market Dynamics:

Driver:

Rising focus on ESG and corporate sustainability

Heightened attention to ESG standards and sustainability commitments is fueling growth in the Chemical Risk & Sustainability Tech market. Stakeholders increasingly demand transparency around chemical safety, environmental impact, and ethical operations. Companies must collect, analyze, and report detailed sustainability data to meet these expectations. Digital platforms simplify ESG reporting, support lifecycle analysis, and ensure responsible chemical use. By enabling measurable sustainability outcomes and regulatory alignment, these technologies help organizations strengthen credibility, meet investor expectations, and integrate sustainability into core business strategies.

Restraint:

High implementation and maintenance costs

The substantial cost associated with adopting Chemical Risk & Sustainability Technology remains a major market limitation. Companies must invest heavily in software deployment, IT integration, and workforce training to effectively use these solutions. For smaller organizations, these expenses can outweigh perceived benefits, delaying adoption. In addition, recurring costs for system maintenance, updates, and compliance content increase long-term financial commitments. This economic barrier restricts market penetration, especially for cost-conscious firms and businesses operating in price-sensitive or emerging markets.

Opportunity:

Rising corporate commitment to sustainable innovation

The shift toward sustainability-driven innovation is creating significant opportunities in the Chemical Risk & Sustainability Tech market. Companies are prioritizing the development of environmentally responsible and safer products. Digital tools help evaluate chemical alternatives, manage compliance, and measure sustainability

outcomes throughout innovation cycles. By supporting responsible product development, these technologies align business growth with sustainability goals. Growing investment in sustainable innovation is likely to boost long-term demand for advanced chemical risk management solutions.

Threat:

Rapidly changing regulatory landscapes

Constant evolution of chemical safety and sustainability regulations represents a major threat to the market. Regional differences and frequent amendments demand ongoing updates to digital platforms. Vendors face high costs to maintain regulatory accuracy, while users risk relying on outdated information. This volatility can undermine confidence in technology solutions and complicate compliance planning. As regulatory uncertainty increases, organizations may hesitate to invest in long-term platforms, slowing market growth.

Covid-19 Impact:

The pandemic influenced the Chemical Risk & Sustainability Tech market by highlighting the need for remote, data-driven chemical management. Travel restrictions and workforce limitations disrupted traditional compliance processes, pushing organizations toward digital tools for monitoring chemical risks and sustainability performance. While economic uncertainty initially reduced spending on new technologies, the crisis increased awareness of regulatory compliance, supply chain transparency, and workplace safety. As companies adapted to new operating models, digital platforms became essential for continuity and risk control. This shift supported gradual recovery and reinforced long-term market growth prospects.

The risk assessment & compliance software segment is expected to be the largest during the forecast period

The risk assessment & compliance software segment is expected to account for the largest market share during the forecast period because it directly addresses the core challenge of managing chemical risks and regulatory obligations. Organizations use these platforms to evaluate chemical hazards, maintain compliance records, and respond efficiently to regulatory changes. The solutions streamline audits, improve transparency, and support safer chemical decision-making across operations. Their ability to integrate into existing business processes and deliver immediate compliance

value makes them essential tools for many industries. With increasing pressure to meet safety, environmental, and sustainability requirements, this segment continues to be the foundation of chemical risk and sustainability technology adoption.

The pharmaceuticals segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the pharmaceuticals segment is predicted to witness the highest growth rate as demand intensifies for advanced chemical risk and sustainability management solutions. Strict global regulations, high safety standards, and growing pressure to reduce environmental footprints make digital compliance tools essential for pharmaceutical companies. These organizations require precise tracking of chemicals, lifecycle assessments, and sustainability reporting to support safe and efficient operations. The shift toward sustainable drug development, combined with complex global supply chains, is increasing reliance on technology-driven platforms. This strong regulatory and sustainability focus continues to accelerate adoption within the pharmaceutical sector.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share as a result of strict chemical safety regulations, advanced technological capabilities, and strong awareness of sustainability practices. Companies in the region actively invest in digital platforms to manage regulatory compliance, chemical risks, and environmental performance. High emphasis on ESG goals, combined with robust enforcement of environmental laws, accelerates adoption of specialized software solutions. The presence of leading technology providers and strong innovation ecosystems further strengthens regional leadership. As businesses prioritize transparency, safety, and sustainability, North America continues to maintain a significant share of the market.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR as industries increasingly adopt chemical risk and sustainability technologies. Accelerated industrial growth, coupled with tighter environmental and chemical management regulations, is pushing companies to modernize compliance processes. Organizations are investing in digital platforms to manage complex supply chains, improve chemical safety, and meet sustainability expectations. Increased focus on

ESG, supportive government policies, and growing digital infrastructure further support rapid adoption. These factors collectively position Asia Pacific as the fastest-growing regional market.

Key players in the market

Some of the key players in Chemical Risk & Sustainability Tech Market include General Biological, PhycoWorks, Anodyne Chemistries, Zenfold Sustainable Technologies, Imperagen, Again, Polymer-X, DUDE CHEM, Oxylum, Cascade Biocatalysts, Atlantic Care Chemicals Pvt. Ltd., Clean Science and Technology, Bayer AG, Camson Biotechnologies, Corteva, Sulapac, Notpla and Syzygy Plasmonics.

Key Developments:

In January 2026, Corteva Inc. and bp announced the launch of Etlas, their new 50:50 joint venture that will produce oil from crops – including canola, mustard and sunflower – for use in the production of biofuels like sustainable aviation fuel (SAF) and renewable diesel (RD). Etlas will harness both Corteva’s century-long expertise in seed technology to develop crops ideally suited to produce SAF and RD as well as bp’s expertise in refining and marketing fuel for the commercial transportation market.

In November 2025, Sulapac has partnered with Belgian biochemistry innovator TripleW to pilot a closed-loop chemical recycling system for PLA-based reusable cups, demonstrating that Sulapac’s dishwasher-proof, bio-based and biodegradable “Sulapac Solid” material can be commercially recycled and upcycled multiple times without relying on fossil-derived plastics.

In November 2025, Bayer AG and World Health Organization (WHO) have renewed a longstanding collaboration to support endemic countries in scaling up free-of-charge treatment against three deadly neglected tropical diseases (NTDs). Since 2002, Bayer AG has been donating medicines in support of WHO’s work on NTDs, which is now managed by the newly-established Department of Malaria and Neglected Tropical Diseases (MNT).

Technology Types Covered:

Risk Assessment & Compliance Software

Chemical Tracking & Monitoring Systems

Circular Economy Platforms

Sustainable Feedstock Technologies

Waste-to-Value Chemical Processes

Carbon Capture & Utilization (CCU) Technologies

Applications Covered:

Pharmaceuticals

Agrochemicals

Specialty Chemicals

Consumer Products Chemicals

Bulk/Industrial Chemicals

Construction Chemicals

End Users Covered:

Manufacturing & Industrial Production

Energy & Utilities

Healthcare & Life Sciences

Automotive & Mobility

Electronics & Semiconductors

Food & Beverage Processing

Regions Covered:**North America**

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

Contents

1 EXECUTIVE SUMMARY

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

2 RESEARCH FRAMEWORK

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
 - 2.4.1 Data Collection (Primary and Secondary)
 - 2.4.2 Data Modeling and Estimation Techniques
 - 2.4.3 Data Validation and Triangulation
 - 2.4.4 Analytical and Forecasting Approach

3 MARKET DYNAMICS AND TREND ANALYSIS

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

4 COMPETITIVE AND STRATEGIC ASSESSMENT

- 4.1 Porter's Five Forces Analysis
 - 4.1.1 Supplier Bargaining Power
 - 4.1.2 Buyer Bargaining Power
 - 4.1.3 Threat of Substitutes
 - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

5 GLOBAL CHEMICAL RISK & SUSTAINABILITY TECH MARKET, BY TECHNOLOGY TYPE

- 5.1 Risk Assessment & Compliance Software
- 5.2 Chemical Tracking & Monitoring Systems
- 5.3 Circular Economy Platforms
- 5.4 Sustainable Feedstock Technologies
- 5.5 Waste-to-Value Chemical Processes
- 5.6 Carbon Capture & Utilization (CCU) Technologies

6 GLOBAL CHEMICAL RISK & SUSTAINABILITY TECH MARKET, BY APPLICATION

- 6.1 Pharmaceuticals
- 6.2 Agrochemicals
- 6.3 Specialty Chemicals
- 6.4 Consumer Products Chemicals
- 6.5 Bulk/Industrial Chemicals
- 6.6 Construction Chemicals

7 GLOBAL CHEMICAL RISK & SUSTAINABILITY TECH MARKET, BY END USER

- 7.1 Manufacturing & Industrial Production
- 7.2 Energy & Utilities
- 7.3 Healthcare & Life Sciences
- 7.4 Automotive & Mobility
- 7.5 Electronics & Semiconductors
- 7.6 Food & Beverage Processing

8 GLOBAL CHEMICAL RISK & SUSTAINABILITY TECH MARKET, BY GEOGRAPHY

- 8.1 North America
 - 8.1.1 United States
 - 8.1.2 Canada

- 8.1.3 Mexico
- 8.2 Europe
 - 8.2.1 United Kingdom
 - 8.2.2 Germany
 - 8.2.3 France
 - 8.2.4 Italy
 - 8.2.5 Spain
 - 8.2.6 Netherlands
 - 8.2.7 Belgium
 - 8.2.8 Sweden
 - 8.2.9 Switzerland
 - 8.2.10 Poland
 - 8.2.11 Rest of Europe
- 8.3 Asia Pacific
 - 8.3.1 China
 - 8.3.2 Japan
 - 8.3.3 India
 - 8.3.4 South Korea
 - 8.3.5 Australia
 - 8.3.6 Indonesia
 - 8.3.7 Thailand
 - 8.3.8 Malaysia
 - 8.3.9 Singapore
 - 8.3.10 Vietnam
 - 8.3.11 Rest of Asia Pacific
- 8.4 South America
 - 8.4.1 Brazil
 - 8.4.2 Argentina
 - 8.4.3 Colombia
 - 8.4.4 Chile
 - 8.4.5 Peru
 - 8.4.6 Rest of South America
- 8.5 Rest of the World (RoW)
 - 8.5.1 Middle East
 - 8.5.1.1 Saudi Arabia
 - 8.5.1.2 United Arab Emirates
 - 8.5.1.3 Qatar
 - 8.5.1.4 Israel
 - 8.5.1.5 Rest of Middle East

8.5.2 Africa

8.5.2.1 South Africa

8.5.2.2 Egypt

8.5.2.3 Morocco

8.5.2.4 Rest of Africa

9 STRATEGIC MARKET INTELLIGENCE

9.1 Industry Value Network and Supply Chain Assessment

9.2 White-Space and Opportunity Mapping

9.3 Product Evolution and Market Life Cycle Analysis

9.4 Channel, Distributor, and Go-to-Market Assessment

10 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES

10.1 Mergers and Acquisitions

10.2 Partnerships, Alliances, and Joint Ventures

10.3 New Product Launches and Certifications

10.4 Capacity Expansion and Investments

10.5 Other Strategic Initiatives

11 COMPANY PROFILES

11.1 General Biological

11.2 PhycoWorks

11.3 Anodyne Chemistries

11.4 Zenfold Sustainable Technologies

11.5 Imperagen

11.6 Again

11.7 Polymer-X

11.8 DUDE CHEM

11.9 Oxylum

11.10 Cascade Biocatalysts

11.11 Atlantic Care Chemicals Pvt. Ltd.

11.12 Clean Science and Technology

11.13 Bayer AG

11.14 Camson Biotechnologies

11.15 Corteva

11.16 Sulapac

11.17 Notpla

11.18 Syzygy Plasmonics

List Of Tables

LIST OF TABLES

Table 1 Global Chemical Risk & Sustainability Tech Market Outlook, By Region (2023-2034) (\$MN)

Table 2 Global Chemical Risk & Sustainability Tech Market Outlook, By Technology Type (2023-2034) (\$MN)

Table 3 Global Chemical Risk & Sustainability Tech Market Outlook, By Risk Assessment & Compliance Software (2023-2034) (\$MN)

Table 4 Global Chemical Risk & Sustainability Tech Market Outlook, By Chemical Tracking & Monitoring Systems (2023-2034) (\$MN)

Table 5 Global Chemical Risk & Sustainability Tech Market Outlook, By Circular Economy Platforms (2023-2034) (\$MN)

Table 6 Global Chemical Risk & Sustainability Tech Market Outlook, By Sustainable Feedstock Technologies (2023-2034) (\$MN)

Table 7 Global Chemical Risk & Sustainability Tech Market Outlook, By Waste-to-Value Chemical Processes (2023-2034) (\$MN)

Table 8 Global Chemical Risk & Sustainability Tech Market Outlook, By Carbon Capture & Utilization (CCU) Technologies (2023-2034) (\$MN)

Table 9 Global Chemical Risk & Sustainability Tech Market Outlook, By Application (2023-2034) (\$MN)

Table 10 Global Chemical Risk & Sustainability Tech Market Outlook, By Pharmaceuticals (2023-2034) (\$MN)

Table 11 Global Chemical Risk & Sustainability Tech Market Outlook, By Agrochemicals (2023-2034) (\$MN)

Table 12 Global Chemical Risk & Sustainability Tech Market Outlook, By Specialty Chemicals (2023-2034) (\$MN)

Table 13 Global Chemical Risk & Sustainability Tech Market Outlook, By Consumer Products Chemicals (2023-2034) (\$MN)

Table 14 Global Chemical Risk & Sustainability Tech Market Outlook, By Bulk/Industrial Chemicals (2023-2034) (\$MN)

Table 15 Global Chemical Risk & Sustainability Tech Market Outlook, By Construction Chemicals (2023-2034) (\$MN)

Table 16 Global Chemical Risk & Sustainability Tech Market Outlook, By End User (2023-2034) (\$MN)

Table 17 Global Chemical Risk & Sustainability Tech Market Outlook, By Manufacturing & Industrial Production (2023-2034) (\$MN)

Table 18 Global Chemical Risk & Sustainability Tech Market Outlook, By Energy &

Utilities (2023-2034) (\$MN)

Table 19 Global Chemical Risk & Sustainability Tech Market Outlook, By Healthcare & Life Sciences (2023-2034) (\$MN)

Table 20 Global Chemical Risk & Sustainability Tech Market Outlook, By Automotive & Mobility (2023-2034) (\$MN)

Table 21 Global Chemical Risk & Sustainability Tech Market Outlook, By Electronics & Semiconductors (2023-2034) (\$MN)

Table 22 Global Chemical Risk & Sustainability Tech Market Outlook, By Food & Beverage Processing (2023-2034) (\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) Regions are also represented in the same manner as above.

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