

Global Heavy Metal Scavenger for Wastewater Treatment Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Heavy Metal Scavenger for Wastewater Treatment market size was valued at US\$ 106 million in 2025 and is forecast to a readjusted size of US\$ 250 million by 2032 with a CAGR of 12.9% during review period.

In 2025, global production of heavy metal scavengers for wastewater treatment reached 98,000 metric tons, with an average price of \$1,053 per ton.

Heavy metal scavengers (also known as heavy metal chelating agents) are chemical agents specifically designed to treat wastewater containing heavy metals. Their primary function is to utilize organic chelating groups to undergo strong chelation reactions with heavy metal ions in the wastewater (such as Hg²⁺, Cd²⁺, Cu²⁺, Pb²⁺, Ni²⁺, Zn²⁺, and Cr³⁺). This process generates insoluble, low-moisture, and easily filterable flocculent precipitates, thereby efficiently separating and removing heavy metals from the wastewater. Compared to traditional chemical precipitation methods (such as lime neutralization or sulfide precipitation), heavy metal scavengers offer significant advantages: mild reaction conditions (ambient temperature, wide pH range), high removal efficiency, resistance to interference from complexing agents, low and stable sludge generation, and the absence of secondary pollution. They can be dosed directly into existing chemical precipitation systems without the need for additional equipment.

The raw material systems for heavy metal scavengers vary significantly depending on the product type. DTC (dithiocarbamate) types are the most prevalent; their core raw materials include organic amines (such as diethylamine, dimethylamine, and ethylenediamine) and carbon disulfide (CS₂). DTC monomers are prepared through a

condensation reaction between the amines and carbon disulfide, followed by a salt-forming reaction to yield the final product. Xanthate types are produced using alcohols (such as ethanol or isopropanol) and carbon disulfide under alkaline conditions. TMT types utilize trimercapto-s-triazine and sodium hydroxide as raw materials. High-molecular-weight polymer types are prepared via free-radical polymerization using raw materials such as acrylamide, acrylic acid, and sulfur-containing monomers. Bio-based types utilize natural polymers such as chitosan, starch, or cellulose which undergo chemical modification to introduce chelating groups (such as xanthate or dithiocarbamate groups). Sulfur-free, eco-friendly variants are formulated using sulfur-free chelating groups (such as carboxyl, amino, or oxime groups). Additionally, all product types require the inclusion of alkaline additives (e.g., sodium hydroxide, sodium carbonate) for pH adjustment, as well as auxiliary components like stabilizers and dispersants. Carbon disulfide and organic amines are key cost drivers for DTC-based products; fluctuations in their prices directly impact production costs.

In terms of cost structure, raw materials represent the largest expenditure for heavy metal chelating agents, typically accounting for 50%–65% of total production costs. Organic amines and carbon disulfide are the core raw materials for DTC products, making up 60%–70% of raw material costs; alcohols and carbon disulfide constitute the bulk of costs for xanthate products; and natural polymer raw materials and modifying agents are the primary cost components for bio-based products. Energy and utility costs account for approximately 10%–15%, covering energy consumption for processes such as reaction heating, cooling, agitation, and drying. Equipment depreciation and maintenance costs represent about 10%–15%, with major investments including reaction vessels, condensers, centrifuges, and drying equipment. Environmental protection and safety costs account for roughly 5%–10%; due to the toxicity and volatility of carbon disulfide, tail-gas recovery units and ventilation systems are required, and the use of organic solvents must comply with environmental regulations. Labor and management costs account for approximately 5%–10%, covering areas such as formulation R&D, quality control, and production operations. Packaging and logistics costs make up about 5%–8%; liquid products require corrosion-resistant containers, while solid products require moisture-proof packaging.

This report is a detailed and comprehensive analysis for global Heavy Metal Scavenger for Wastewater Treatment market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many

markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Heavy Metal Scavenger for Wastewater Treatment market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Heavy Metal Scavenger for Wastewater Treatment market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Heavy Metal Scavenger for Wastewater Treatment market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Heavy Metal Scavenger for Wastewater Treatment market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Heavy Metal Scavenger for Wastewater Treatment

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Heavy Metal Scavenger for Wastewater Treatment market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Hunan Fucheng Environmental Protection Technology, Leer Environment, Shenzhen Changlong Technology, Sainz Environmental Protection, Suzhou Dr.Tsing Environment

Technology, JFE Mineral & Alloy, Ishihara Sangyo Kaisha, Evonik, SNF Group, TODA KOGYO, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Heavy Metal Scavenger for Wastewater Treatment market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

DTC-based

TMT-based

Xanthate-based

Others

Market segment by Product Form

Liquid

Solid

Market segment by Specialization

General-purpose

Specialized

Market segment by Application

Electroplating Industry

Metallurgical Industry

Electronics Industry

Petrochemical Industry

Metal Processing

Mineral Processing

Other

Major players covered

Hunan Fucheng Environmental Protection Technology

Leer Environment

Shenzhen Changlong Technology

Sainz Environmental Protection

Suzhou Dr.Tsing Environment Technology

JFE Mineral & Alloy

Ishihara Sangyo Kaisha

Evonik

SNF Group

TODA KOGYO

Ouchi Shinko Chemical Industrial

Kurita

Veolia

Aries Chemical

Syensqo

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Heavy Metal Scavenger for Wastewater Treatment product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Heavy Metal Scavenger for Wastewater Treatment, with price, sales quantity, revenue, and global market share of Heavy Metal Scavenger for Wastewater Treatment from 2021 to 2026.

Chapter 3, the Heavy Metal Scavenger for Wastewater Treatment competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Heavy Metal Scavenger for Wastewater Treatment breakdown data are

shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Heavy Metal Scavenger for Wastewater Treatment market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Heavy Metal Scavenger for Wastewater Treatment.

Chapter 14 and 15, to describe Heavy Metal Scavenger for Wastewater Treatment sales channel, distributors, customers, research findings and conclusion.

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