

Metal Cleaning Chemicals Market by Cleaner Type (Aqueous, Solvent), Metal Type (Steel, Aluminum, Cooper), Ingredient (Surfactants, Chelating Agent, Solvent), End-use Industry (Manufacturing, Automotive & Aerospace, Healthcare), & Region - Global Forecast to 2027

<https://marketpublishers.com/r/M2DE4399122EN.html>

Date: January 2023

Pages: 235

Price: US\$ 4,950.00 (Single User License)

ID: M2DE4399122EN

Abstracts

The global metal cleaning chemicals market will grow to USD 18.2 Billion by 2027, at a CAGR of 5.1% from USD 14.1 Billion in 2022. Metal cleaning chemicals are also widely used in the construction industry as they are used for removal of metallic scale and corrosion products. Metal cleaning chemicals are essential in architectural forming such as for manufacturing showpieces where superior finishing is required. According to the International Organization of Motor Vehicle Manufacturers (OICA), Asia Pacific is the largest motor vehicle producer in the world and accounted for over 58.3% of the global motor vehicle production.

“Aqueous was largest cleaner type in terms of value, in 2021.”

Aqueous solutions dominate the metal cleaning sector because of the low VOC content and low toxicity. The major aqueous metal cleaning chemicals are builders, surfactants, sequestrants and inhibitors, emulsion cleaners and others. Surfactants are organic substances that lower the surface tension of liquids. They are the most important ingredients of aqueous metal cleaning chemicals. Surfactants are mainly used as detergents, wetting agents, and emulsifiers. There are two types of surfactants, ionic and non-ionic. Ionic surfactants can be further grouped into negatively charged anionic, positively charged cationic, and amphoteric that carry both negative and positive functions. It is common practice to blend surfactants to achieve the desired properties.

This is expected to drive the demand for aqueous based metal cleaners.

“Automotive & Aerospace was the second-largest end-use industry, in terms of value, in 2021”

Aircraft requires regular cleaning to prevent them from early wear and tear and to increase the product life. The automotive sector requires cleaning and polishing during the manufacturing and assembly stages. In this industry, regular tire cleaning, body cleaning, and window cleaning are also required. The aerospace sector also requires cleaning in the manufacturing and assembly stages. Metal cleaning chemicals are also required in regular cleaning of wheels and brakes, oxygen breathing systems, air conditioner components, flight and crew seats, hydraulic equipment, and flight control systems in the aerospace industry.

“Surfactants was the largest ingredient type, in terms of value, in 2021”

Surfactants enable the cleaning solution to wet a surface more quickly, so the contaminants can be readily loosened and removed (usually with the aid of mechanical action). Surfactants also emulsify oily dirt and keep them dispersed and suspended, so they do not settle back on the surface. To accomplish their intended jobs effectively, many cleaning products include two or more surfactants. Increasing demand for surfactants in various end-use industries is expected to drive the market demand.

Aluminum was the second-largest metal type, in terms of value, in 2021”

After iron (steel), aluminum is the second-most widely used metal worldwide. Aluminum has a unique combination of properties such as low weight, high strength, superior malleability, easy machining, excellent corrosion resistance, and good thermal and electrical conductivity. It is also very easy to recycle. It is used in the manufacture of automobiles, electrical equipment, packaging materials, machinery, and building construction. Aluminum is also ideal for beer and soft drink cans and foil as it can be melted and reused or recycled.

“North America was the second-largest metal cleaning chemicals market, in terms of value, in 2021”

North America is the second-largest market for metal cleaning chemicals. The market in the region is characterized by the increasing use of environment-friendly metal cleaning chemicals due to the adoption of stringent regulations and growing consumer

awareness. Aqueous-based metal cleaners are the most-used metal cleaning chemicals in the region and have been replacing solvent-based chemicals that are environmentally unsafe due to their high VOC content.

The major players in the North American region are The Dow Chemicals (US), Air Products and Chemicals (US), Stepan Company (US), and Emerson Electric (US).

By Company Type: Tier 1 - 69%, Tier 2 - 23%, and Tier 3 - 8%

By Designation: C-Level - 23%, Director Level - 37%, and Others - 40%

By Region: North America - 32%, Europe - 21%, Asia Pacific - 28%, South America - 12%, Middle East & Africa - 7%,

The key players profiled in the report include BASF SE (Germany), Evonik Industries AG (Germany), Eastman Chemical Company (US), Quaker Chemical Corporation (US), Stepan Company (US), The Chemours Company (US), and The Dow Chemical Company (US), among others are the major players in this market.

Research Coverage

This report segments the market for metal cleaning chemicals is based on cleaner type, metal type, ingredient type, end-use industry and region, and provides estimations for the overall market size across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, products & services, key strategies, associated with the market for metal cleaning chemicals.

Reasons to Buy this Report

This research report is focused on various levels of analysis — industry analysis (industry trends), market share analysis of top players, and company profiles, which together provide an overall view on the competitive landscape; emerging and high-growth segments of the metal cleaning chemicals market; high-growth regions; and market drivers, restraints, and opportunities.

The report provides insights on the following pointers:

Market Penetration: Comprehensive information on metal cleaning chemicals

offered by top players in the global market

Market Development: Comprehensive information about lucrative emerging markets — the report analyzes the markets for metal cleaning chemicals across regions

Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global metal cleaning chemicals market

Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the metal cleaning chemicals market

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.2.1 INCLUSIONS & EXCLUSIONS

1.2.2 METAL CLEANING CHEMICALS MARKET DEFINITION AND INCLUSIONS, BY CLEANER TYPE

1.2.3 METAL CLEANING CHEMICALS MARKET DEFINITION AND INCLUSIONS, BY INGREDIENT TYPE

1.2.4 METAL CLEANING CHEMICALS MARKET DEFINITION AND INCLUSIONS, BY END-USE INDUSTRY

1.2.5 METAL CLEANING CHEMICALS MARKET DEFINITION AND INCLUSIONS, BY METAL TYPE

1.3 STUDY SCOPE

1.3.1 METAL CLEANING CHEMICALS MARKET SEGMENTATION

1.3.2 REGIONS COVERED

1.3.3 YEARS CONSIDERED

1.4 CURRENCY CONSIDERED

1.5 UNIT CONSIDERED

1.6 STAKEHOLDERS

1.7 SUMMARY OF CHANGES

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 1 METAL CLEANING CHEMICALS MARKET: RESEARCH DESIGN

2.1.1 SECONDARY DATA

2.1.2 PRIMARY DATA

2.1.2.1 Primary interviews—demand and supply sides

2.1.2.2 Key industry insights

2.1.2.3 Breakdown of primary interviews

2.2 MARKET SIZE ESTIMATION

2.2.1 BOTTOM-UP APPROACH

FIGURE 2 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1: BOTTOM UP (SUPPLY SIDE): COLLECTIVE SHARE OF TOP PLAYERS

FIGURE 3 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 1: BOTTOM UP (SUPPLY SIDE): COLLECTIVE REVENUE OF ALL PRODUCTS

FIGURE 4 MARKET SIZE ESTIMATION METHODOLOGY: APPROACH 2 (DEMAND SIDE)

2.3 DATA TRIANGULATION

FIGURE 5 METAL CLEANING CHEMICALS MARKET: DATA TRIANGULATION

2.4 GROWTH ASSUMPTIONS AND FORECASTS

2.4.1 SUPPLY SIDE

FIGURE 6 MARKET CAGR PROJECTIONS FROM SUPPLY SIDE

2.4.2 DEMAND SIDE

FIGURE 7 MARKET GROWTH PROJECTIONS FROM DEMAND SIDE: DRIVERS AND OPPORTUNITIES

2.5 IMPACT OF RECESSION

2.6 FACTOR ANALYSIS

2.7 RESEARCH ASSUMPTIONS

2.8 RESEARCH LIMITATIONS

2.9 RISK ASSESSMENT

3 EXECUTIVE SUMMARY

FIGURE 8 MANUFACTURING WAS LARGEST END-USE INDUSTRY OF METAL CLEANING CHEMICALS IN 2021

FIGURE 9 AQUEOUS CLEANERS TO BE FASTER-GROWING SEGMENT DURING FORECAST PERIOD

FIGURE 10 STEEL TO BE LARGEST METAL TYPE SEGMENT IN METAL CLEANING CHEMICALS MARKET

FIGURE 11 SURFACTANTS TO BE LARGEST INGREDIENT TYPE IN METAL CLEANING CHEMICALS MARKET DURING FORECAST PERIOD

FIGURE 12 ASIA PACIFIC ACCOUNTED FOR LARGEST MARKET SHARE IN 2021

4 PREMIUM INSIGHTS

4.1 BRIEF OVERVIEW OF METAL CLEANING CHEMICALS MARKET

FIGURE 13 MANUFACTURING INDUSTRY TO DRIVE MARKET DURING FORECAST PERIOD

4.2 METAL CLEANING CHEMICALS MARKET SIZE, BY REGION

FIGURE 14 ASIA PACIFIC TO BE LARGEST MARKET DURING FORECAST PERIOD

4.3 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET, BY CLEANER TYPE AND COUNTRY (2021)

FIGURE 15 AQUEOUS CLEANERS SEGMENT AND CHINA ACCOUNTED FOR MAXIMUM SHARES

4.4 METAL CLEANING CHEMICALS MARKET SIZE, METAL TYPE VS. REGION
FIGURE 16 STEEL LED METAL CLEANING CHEMICALS MARKET ACROSS
REGIONS

4.5 METAL CLEANING CHEMICALS MARKET: BY MAJOR COUNTRIES
FIGURE 17 INDIA TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MARKET DYNAMICS

FIGURE 18 DRIVERS, RESTRAINTS, CHALLENGES, AND OPPORTUNITIES IN
METAL CLEANING CHEMICALS MARKET

5.2.1 DRIVERS

5.2.1.1 Growing automotive and construction industries to drive market

FIGURE 19 WORLD MOTOR VEHICLE PRODUCTION: 2017–2021

5.2.1.2 Increasing demand for aqueous-based metal cleaning chemicals

5.2.1.3 Need for precision metal cleaning driving demand for innovative metal
cleaning solutions

5.2.1.4 Rising demand for metals from end-use industries

5.2.2 RESTRAINTS

5.2.2.1 Stringent regulations on metal cleaning chemicals

5.2.3 OPPORTUNITIES

5.2.3.1 Green and biobased alternatives to traditional metal cleaning chemical
products

5.2.3.2 Rising concerns toward industrial cleaning & maintenance and worker safety

5.2.4 CHALLENGES

5.2.4.1 Waste management in metal manufacturing facilities

5.3 PORTER'S FIVE FORCES ANALYSIS

FIGURE 20 METAL CLEANING CHEMICALS MARKET: PORTER'S FIVE FORCES
ANALYSIS

5.3.1 THREAT OF NEW ENTRANTS

5.3.2 THREAT OF SUBSTITUTES

5.3.3 BARGAINING POWER OF SUPPLIERS

5.3.4 BARGAINING POWER OF BUYERS

5.3.5 INTENSITY OF COMPETITIVE RIVALRY

TABLE 1 METAL CLEANING CHEMICALS MARKET: PORTER'S FIVE FORCES
ANALYSIS

5.4 KEY STAKEHOLDERS & BUYING CRITERIA

5.4.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 21 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF METAL CLEANING CHEMICALS FOR TOP THREE METALS

TABLE 2 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS OF METAL CLEANING CHEMICALS FOR TOP THREE METAL TYPES (%)

5.4.2 BUYING CRITERIA

FIGURE 22 KEY BUYING CRITERIA FOR TOP THREE METAL TYPES

TABLE 3 KEY BUYING CRITERIA FOR TOP THREE METAL TYPES

5.5 MACROECONOMIC INDICATORS

5.5.1 GDP TRENDS AND FORECAST FOR MAJOR ECONOMIES

TABLE 4 GDP TRENDS AND FORECAST OF MAJOR ECONOMIES, 2019–2027 (USD BILLION)

6 INDUSTRY TRENDS

6.1 SUPPLY CHAIN ANALYSIS

FIGURE 23 METAL CLEANING CHEMICALS MARKET: SUPPLY CHAIN

6.1.1 RAW MATERIALS

6.1.2 MANUFACTURING OF METAL CLEANING CHEMICALS

6.1.3 DISTRIBUTION NETWORK

6.1.4 END-USE INDUSTRIES

6.2 METAL CLEANING CHEMICALS MARKET: REALISTIC, PESSIMISTIC, OPTIMISTIC, AND NON-COVID-19 SCENARIOS

FIGURE 24 MARKET SIZE UNDER REALISTIC, PESSIMISTIC, OPTIMISTIC, AND NON-COVID-19 SCENARIOS

TABLE 5 METAL CLEANING CHEMICALS MARKET FORECAST SCENARIO, 2019–2027 (USD MILLION)

6.2.1 NON-COVID-19 SCENARIO

6.2.2 OPTIMISTIC SCENARIO

6.2.3 PESSIMISTIC SCENARIO

6.2.4 REALISTIC SCENARIO

6.3 PRICING ANALYSIS

6.3.1 AVERAGE SELLING PRICE OF INGREDIENT TYPES, BY KEY PLAYERS

FIGURE 25 AVERAGE SELLING PRICE OF TOP THREE INGREDIENT TYPES, BY KEY PLAYERS

TABLE 6 AVERAGE SELLING PRICES OF KEY PLAYERS FOR TOP THREE APPLICATIONS (USD/KG)

6.3.2 AVERAGE SELLING PRICE, BY REGION

FIGURE 26 AVERAGE SELLING PRICE OF METAL CLEANING CHEMICALS, BY REGION (USD/KG)

TABLE 7 AVERAGE SELLING PRICE OF METAL CLEANING CHEMICALS, BY REGION (USD/KG)

6.4 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

6.4.1 REVENUE SHIFTS & REVENUE POCKETS FOR METAL CLEANING CHEMICALS MARKET

FIGURE 27 REVENUE SHIFT FOR METAL CLEANING CHEMICALS MARKET

6.5 CONNECTED MARKETS: ECOSYSTEM

TABLE 8 METAL CLEANING CHEMICALS MARKET: ECOSYSTEM

FIGURE 28 METAL CLEANING CHEMICALS MARKET: ECOSYSTEM

6.6 TECHNOLOGY ANALYSIS

6.6.1 LASER TECHNOLOGY FOR CLEANING METALS

6.6.2 MICRO-BUBBLE TECHNOLOGY

6.7 CASE STUDY ANALYSIS

6.7.1 CASE STUDY ON V.H. BLACKINTON & CO.

6.7.2 CASE STUDY ON DANFOSS CHATLEFF LLC

6.8 TRADE DATA STATISTICS

6.8.1 IMPORT SCENARIO OF SURFACTANTS

FIGURE 29 IMPORTS OF SURFACTANTS, BY KEY COUNTRY (2012–2021)

TABLE 9 IMPORTS OF SURFACTANTS, BY REGION, 2012–2021 (USD MILLION)

6.8.2 EXPORT SCENARIO OF SURFACTANTS

FIGURE 30 EXPORTS OF SURFACTANTS, BY KEY COUNTRY (2012–2021)

TABLE 10 EXPORTS OF SURFACTANTS, BY REGION, 2012–2021 (USD MILLION)

6.9 REGULATORY LANDSCAPE

6.9.1 REGULATIONS RELATED TO METAL CLEANING CHEMICALS

6.10 KEY CONFERENCES & EVENTS, 2022–2023

TABLE 11 METAL CLEANING CHEMICALS MARKET: DETAILED LIST OF CONFERENCES & EVENTS

6.11 PATENT ANALYSIS

6.11.1 APPROACH

6.11.2 DOCUMENT TYPE

TABLE 12 TOTAL NUMBER OF PATENTS IN LAST 11 YEARS (2011–2021)

FIGURE 31 PATENTS REGISTERED IN METAL CLEANING CHEMICALS MARKET, 2011–2021

FIGURE 32 PATENT PUBLICATION TRENDS, 2011–2021

FIGURE 33 LEGAL STATUS OF PATENTS FILED IN METAL CLEANING CHEMICALS MARKET

6.11.3 JURISDICTION ANALYSIS

FIGURE 34 MAXIMUM PATENTS FILED IN US JURISDICTION

6.11.4 TOP APPLICANTS

FIGURE 35 TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LIMITED REGISTERED MAXIMUM NUMBER OF PATENTS BETWEEN 2011 AND 2021

TABLE 13 PATENTS BY TAIWAN SEMICONDUCTOR MANUFACTURING COMPANY LIMITED

TABLE 14 PATENTS BY THE PROCTER & GAMBLE COMPANY

TABLE 15 TOP 10 PATENT OWNERS IN US, 2011–2021

7 METAL CLEANING CHEMICALS MARKET, BY CLEANER TYPE

7.1 INTRODUCTION

FIGURE 36 AQUEOUS CLEANERS TO DOMINATE METAL CLEANING CHEMICALS MARKET DURING FORECAST PERIOD

TABLE 16 METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 17 METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 18 METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 19 METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

7.2 AQUEOUS CLEANERS

7.2.1 LOW VOC CONTENT AND TOXICITY TO DRIVE MARKET FOR AQUEOUS CLEANERS

7.2.2 BUILDERS

7.2.3 SURFACTANTS

7.2.4 SEQUESTRANTS AND INHIBITORS

7.2.5 EMULSION CLEANERS

7.2.6 OTHERS

FIGURE 37 ASIA PACIFIC TO BE LARGEST MARKET FOR AQUEOUS METAL CLEANING CHEMICALS

TABLE 20 AQUEOUS CLEANERS: METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 21 AQUEOUS CLEANERS: METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 22 AQUEOUS CLEANERS: METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 23 AQUEOUS CLEANERS: METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

7.3 SOLVENT CLEANERS

7.3.1 ENVIRONMENTAL REGULATIONS TO NEGATIVELY IMPACT DEMAND FOR SOLVENT CLEANERS

7.3.2 OXYGENATED SOLVENTS

7.3.2.1 Esters

7.3.2.2 Glycol ethers

7.3.2.3 Alcohols

7.3.2.4 Ketones

7.3.3 HYDROCARBON SOLVENTS

7.3.4 HALOGENATED SOLVENTS

7.3.5 OTHER SOLVENTS

FIGURE 38 NORTH AMERICA TO BE SECOND-LARGEST MARKET FOR SOLVENT CLEANERS

TABLE 24 SOLVENT CLEANERS: METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 25 SOLVENT CLEANERS: METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 26 SOLVENT CLEANERS: METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 27 SOLVENT CLEANERS: METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

8 METAL CLEANING CHEMICALS MARKET, BY INGREDIENT TYPE

8.1 INTRODUCTION

FIGURE 39 SURFACTANTS TO BE LARGEST INGREDIENT TYPE SEGMENT DURING FORECAST PERIOD

TABLE 28 METAL CLEANING CHEMICALS MARKET SIZE, BY INGREDIENT TYPE, 2017–2020 (KILOTON)

TABLE 29 METAL CLEANING CHEMICALS MARKET SIZE, BY INGREDIENT TYPE, 2021–2027 (KILOTON)

TABLE 30 METAL CLEANING CHEMICALS MARKET SIZE, BY INGREDIENT TYPE, 2017–2020 (USD MILLION)

TABLE 31 METAL CLEANING CHEMICALS MARKET SIZE, BY INGREDIENT TYPE, 2021–2027 (USD MILLION)

8.2 CHELATING AGENTS

8.2.1 HIGH PERFORMANCE OF CHELATING AGENTS IN HARD WATER TO DRIVE MARKET

8.3 SURFACTANTS

8.3.1 BETTER CLEANING PROPERTIES AND DEMAND FROM VARIOUS END-USE

INDUSTRIES TO DRIVE MARKET

8.4 SOLVENTS

8.4.1 HIGH DEMAND IN INDUSTRIAL CLEANING TO DRIVE MARKET

8.5 SOLUBILIZERS

8.5.1 EXTENSIVE USE IN HIGH-TEMPERATURE APPLICATIONS TO DRIVE MARKET

8.6 PH REGULATORS

8.6.1 RISING DEMAND FROM AQUEOUS CLEANERS TO DRIVE MARKET

8.7 OTHERS

9 METAL CLEANING CHEMICALS MARKET, BY METAL TYPE

9.1 INTRODUCTION

FIGURE 40 STEEL TO BE LARGEST METAL TYPE DURING FORECAST PERIOD

TABLE 32 METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (KILOTON)

TABLE 33 METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (KILOTON)

TABLE 34 METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (USD MILLION)

TABLE 35 METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (USD MILLION)

9.2 STEEL

9.2.1 RECYCLABILITY OF STEEL TO SUPPORT MARKET GROWTH

FIGURE 41 ASIA PACIFIC TO BE LARGEST MARKET DURING FORECAST PERIOD

TABLE 36 METAL CLEANING CHEMICALS MARKET SIZE IN STEEL, BY REGION, 2017–2020 (KILOTON)

TABLE 37 METAL CLEANING CHEMICALS MARKET SIZE IN STEEL, BY REGION, 2021–2027 (KILOTON)

TABLE 38 METAL CLEANING CHEMICALS MARKET SIZE IN STEEL, BY REGION, 2017–2020 (USD MILLION)

TABLE 39 METAL CLEANING CHEMICALS MARKET SIZE IN STEEL, BY REGION, 2021–2027 (USD MILLION)

9.3 ALUMINUM

9.3.1 UNIQUE PROPERTIES OF ALUMINUM TO DRIVE DEMAND

FIGURE 42 NORTH AMERICA TO BE SECOND-LARGEST MARKET IN ALUMINUM SEGMENT

TABLE 40 METAL CLEANING CHEMICALS MARKET SIZE IN ALUMINUM, BY REGION, 2017–2020 (KILOTON)

TABLE 41 METAL CLEANING CHEMICALS MARKET SIZE IN ALUMINUM, BY REGION, 2021–2027 (KILOTON)

TABLE 42 METAL CLEANING CHEMICALS MARKET SIZE IN ALUMINUM, BY REGION, 2017–2020 (USD MILLION)

TABLE 43 METAL CLEANING CHEMICALS MARKET SIZE IN ALUMINUM, BY REGION, 2021–2027 (USD MILLION)

9.4 COPPER

9.4.1 INCREASING DEMAND FOR COPPER TO DRIVE MARKET

FIGURE 43 ASIA PACIFIC TO BE LARGEST MARKET FOR METAL CLEANING CHEMICALS IN COPPER SEGMENT DURING FORECAST PERIOD

TABLE 44 METAL CLEANING CHEMICALS MARKET SIZE IN COPPER, BY REGION, 2017–2020 (KILOTON)

TABLE 45 METAL CLEANING CHEMICALS MARKET SIZE IN COPPER, BY REGION, 2021–2027 (KILOTON)

TABLE 46 METAL CLEANING CHEMICALS MARKET SIZE IN COPPER, BY REGION, 2017–2020 (USD MILLION)

TABLE 47 METAL CLEANING CHEMICALS MARKET SIZE IN COPPER, BY REGION, 2021–2027 (USD MILLION)

9.5 OTHERS

FIGURE 44 SOUTH AMERICA TO BE SECOND FASTEST-GROWING MARKET IN OTHER METALS SEGMENT

TABLE 48 METAL CLEANING CHEMICALS MARKET SIZE IN OTHER METALS, BY REGION, 2017–2020 (KILOTON)

TABLE 49 METAL CLEANING CHEMICALS MARKET SIZE IN OTHER METALS, BY REGION, 2021–2027 (KILOTON)

TABLE 50 METAL CLEANING CHEMICALS MARKET SIZE IN OTHER METALS, BY REGION, 2017–2020 (USD MILLION)

TABLE 51 METAL CLEANING CHEMICALS MARKET SIZE IN OTHER METALS, BY REGION, 2021–2027 (USD MILLION)

10 METAL CLEANING CHEMICALS MARKET, BY END-USE INDUSTRY

10.1 INTRODUCTION

FIGURE 45 MANUFACTURING TO BE LARGEST END-USE INDUSTRY OF METAL CLEANING CHEMICALS

TABLE 52 METAL CLEANING CHEMICALS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (KILOTON)

TABLE 53 METAL CLEANING CHEMICALS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (KILOTON)

TABLE 54 METAL CLEANING CHEMICALS MARKET SIZE, BY END-USE INDUSTRY, 2017–2020 (USD MILLION)

TABLE 55 METAL CLEANING CHEMICALS MARKET SIZE, BY END-USE INDUSTRY, 2021–2027 (USD MILLION)

10.2 MANUFACTURING

10.2.1 DEMAND FOR HIGH-PERFORMANCE METAL CLEANING CHEMICALS TO BOOST MARKET

10.3 AUTOMOTIVE & AEROSPACE

10.3.1 NEED FOR REGULAR CLEANING TO PROPEL DEMAND

10.4 HEALTHCARE

10.4.1 INCREASED HEALTHCARE EXPENDITURE TO CREATE FAVORABLE CONDITIONS FOR MARKET GROWTH

10.5 OTHERS

11 METAL CLEANING CHEMICALS MARKET, BY REGION

11.1 INTRODUCTION

FIGURE 46 ASIA PACIFIC TO BE FASTEST-GROWING METAL CLEANING CHEMICALS MARKET DURING FORECAST PERIOD

TABLE 56 METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2020 (KILOTON)

TABLE 57 METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2021–2027 (KILOTON)

TABLE 58 METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2020 (USD MILLION)

TABLE 59 METAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2021–2027 (USD MILLION)

11.2 IMPACT OF RECESSION

11.3 ASIA PACIFIC

FIGURE 47 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SNAPSHOT

11.3.1 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET, BY METAL TYPE

TABLE 60 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (KILOTON)

TABLE 61 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL, 2021–2027 (KILOTON)

TABLE 62 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (USD MILLION)

TABLE 63 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL, 2021–2027 (USD MILLION)

11.3.2 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET, BY CLEANER TYPE

TABLE 64 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 65 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 66 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 67 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.3.3 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET, BY COUNTRY

TABLE 68 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 69 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 70 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 71 ASIA PACIFIC: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.3.3.1 China

11.3.3.1.1 Strong economic growth to support market

TABLE 72 CHINA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 73 CHINA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 74 CHINA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 75 CHINA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.3.3.2 Japan

11.3.3.2.1 Demand from automotive sector to drive market

TABLE 76 JAPAN: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 77 JAPAN: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 78 JAPAN: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 79 JAPAN: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.3.3.3 India

11.3.3.3.1 Rising industrialization to propel market growth

TABLE 80 INDIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 81 INDIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 82 INDIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 83 INDIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.3.3.4 South Korea

11.3.3.4.1 Increasing demand for passenger and commercial vehicles to boost demand

TABLE 84 SOUTH KOREA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 85 SOUTH KOREA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 86 SOUTH KOREA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 87 SOUTH KOREA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.4 NORTH AMERICA

FIGURE 48 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SNAPSHOT

11.4.1 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET, BY METAL TYPE

TABLE 88 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (KILOTON)

TABLE 89 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (KILOTON)

TABLE 90 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (USD MILLION)

TABLE 91 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (USD MILLION)

11.4.2 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET, BY CLEANER TYPE

TABLE 92 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 93 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY

CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 94 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 95 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.4.3 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET, BY COUNTRY

TABLE 96 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 97 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 98 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 99 NORTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.4.3.1 US

11.4.3.1.1 Strong industrial infrastructure to fuel market

TABLE 100 US: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 101 US: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 102 US: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 103 US: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.4.3.2 Canada

11.4.3.2.1 Automotive industry to boost demand for metal cleaning chemicals

TABLE 104 CANADA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 105 CANADA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 106 CANADA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 107 CANADA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.4.3.3 Mexico

11.4.3.3.1 Rising industrialization to propel metal cleaning chemicals market

TABLE 108 MEXICO: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 109 MEXICO: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER

TYPE, 2021–2027 (KILOTON)

TABLE 110 MEXICO: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 111 MEXICO: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.5 EUROPE

FIGURE 49 EUROPE: METAL CLEANING CHEMICALS MARKET SNAPSHOT

11.5.1 EUROPE: METAL CLEANING CHEMICALS MARKET, BY METAL TYPE

TABLE 112 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (KILOTON)

TABLE 113 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (KILOTON)

TABLE 114 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (USD MILLION)

TABLE 115 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL, 2021–2027 (USD MILLION)

11.5.2 EUROPE: METAL CLEANING CHEMICALS MARKET, BY CLEANER TYPE

TABLE 116 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 117 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 118 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 119 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.5.3 EUROPE: METAL CLEANING CHEMICALS MARKET, BY COUNTRY

TABLE 120 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 121 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 122 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 123 EUROPE: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.5.3.1 Germany

11.5.3.1.1 Large automotive sector to fuel market

TABLE 124 GERMANY: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 125 GERMANY: METAL CLEANING CHEMICALS MARKET SIZE, BY

CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 126 GERMANY: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 127 GERMANY: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.5.3.2 UK

11.5.3.2.1 Manufacturing industry to drive market

TABLE 128 UK: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 129 UK: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 130 UK: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 131 UK: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.5.3.3 France

11.5.3.3.1 Increasing spending power to lead to growth in demand for metal cleaning chemicals

TABLE 132 FRANCE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 133 FRANCE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 134 FRANCE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 135 FRANCE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.5.3.4 Italy

11.5.3.4.1 Automotive industry to propel market

TABLE 136 ITALY: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 137 ITALY: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 138 ITALY: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 139 ITALY: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.5.3.5 Russia

11.5.3.5.1 Established oil & gas industry to augment demand for metal cleaning chemicals

TABLE 140 RUSSIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 141 RUSSIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 142 RUSSIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 143 RUSSIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.5.3.6 Spain

11.5.3.6.1 Oil & gas industry to fuel consumption of metal cleaning chemicals

TABLE 144 SPAIN: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 145 SPAIN: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 146 SPAIN: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 147 SPAIN: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.6 MIDDLE EAST & AFRICA

11.6.1 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET, BY METAL TYPE

TABLE 148 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (KILOTON)

TABLE 149 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (KILOTON)

TABLE 150 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (USD MILLION)

TABLE 151 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (USD MILLION)

11.6.2 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET, BY CLEANER TYPE

TABLE 152 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 153 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 154 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 155 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.6.3 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET, BY COUNTRY

TABLE 156 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 157 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 158 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 159 MIDDLE EAST & AFRICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.6.3.1 Saudi Arabia

11.6.3.1.1 Increasing demand from manufacturing sector to drive market

TABLE 160 SAUDI ARABIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 161 SAUDI ARABIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 162 SAUDI ARABIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 163 SAUDI ARABIA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.6.3.2 UAE

11.6.3.2.1 Manufacturing industry to spur market growth

TABLE 164 UAE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 165 UAE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 166 UAE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 167 UAE: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.7 SOUTH AMERICA

11.7.1 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET, BY METAL TYPE

TABLE 168 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (KILOTON)

TABLE 169 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (KILOTON)

TABLE 170 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2017–2020 (USD MILLION)

TABLE 171 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY METAL TYPE, 2021–2027 (USD MILLION)

11.7.2 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET, BY CLEANER TYPE

TABLE 172 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 173 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 174 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 175 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.7.3 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET, BY COUNTRY

TABLE 176 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (KILOTON)

TABLE 177 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (KILOTON)

TABLE 178 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2020 (USD MILLION)

TABLE 179 SOUTH AMERICA: METAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2021–2027 (USD MILLION)

11.7.3.1 Brazil

11.7.3.1.1 High spending power and industrial growth to drive demand

TABLE 180 BRAZIL: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 181 BRAZIL: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 182 BRAZIL: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 183 BRAZIL: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

11.7.3.2 Argentina

11.7.3.2.1 Rising vehicle sales to drive market

TABLE 184 ARGENTINA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (KILOTON)

TABLE 185 ARGENTINA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (KILOTON)

TABLE 186 ARGENTINA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2017–2020 (USD MILLION)

TABLE 187 ARGENTINA: METAL CLEANING CHEMICALS MARKET SIZE, BY CLEANER TYPE, 2021–2027 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 INTRODUCTION

12.2 STRATEGIES ADOPTED BY KEY PLAYERS

12.2.1 OVERVIEW OF STRATEGIES ADOPTED BY KEY MANUFACTURERS

12.3 MARKET SHARE ANALYSIS

12.3.1 RANKING OF KEY MARKET PLAYERS, 2021

FIGURE 50 RANKING OF TOP FIVE PLAYERS IN METAL CLEANING CHEMICALS MARKET, 2021

12.3.2 MARKET SHARE OF KEY PLAYERS

TABLE 188 METAL CLEANING CHEMICALS MARKET: DEGREE OF COMPETITION

FIGURE 51 BASF SE LED METAL CLEANING CHEMICALS MARKET IN 2021

12.3.2.1 BASF SE

12.3.2.2 Dow Inc.

12.3.2.3 Evonik Industries AG

12.3.2.4 Eastman Chemical Company

12.3.2.5 Stepan Company

12.3.3 REVENUE ANALYSIS OF TOP FIVE PLAYERS

FIGURE 52 REVENUE ANALYSIS OF KEY COMPANIES IN LAST 5 YEARS

12.4 COMPANY PRODUCT FOOTPRINT ANALYSIS

FIGURE 53 METAL CLEANING CHEMICALS MARKET: COMPANY FOOTPRINT

TABLE 189 METAL CLEANING CHEMICALS MARKET: CLEANER TYPE FOOTPRINT

TABLE 190 METAL CLEANING CHEMICALS MARKET: END-USE INDUSTRY FOOTPRINT

TABLE 191 METAL CLEANING CHEMICALS MARKET: COMPANY REGION FOOTPRINT

12.5 COMPANY EVALUATION QUADRANT (TIER 1)

12.5.1 STARS

12.5.2 EMERGING LEADERS

12.5.3 PARTICIPANTS

12.5.4 PERVASIVE PLAYERS

FIGURE 54 COMPANY EVALUATION QUADRANT FOR METAL CLEANING CHEMICALS MARKET (TIER 1)

12.6 COMPETITIVE BENCHMARKING

TABLE 192 METAL CLEANING CHEMICALS MARKET: DETAILED LIST OF KEY START-UPS/SMES

TABLE 193 METAL CLEANING CHEMICALS MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES**12.7 START-UP/SME EVALUATION QUADRANT****12.7.1 PROGRESSIVE COMPANIES****12.7.2 RESPONSIVE COMPANIES****12.7.3 STARTING BLOCKS****12.7.4 DYNAMIC COMPANIES****FIGURE 55 START-UP/SME EVALUATION QUADRANT FOR METAL CLEANING CHEMICALS MARKET****12.8 COMPETITIVE SCENARIOS****12.8.1 DEALS****TABLE 194 METAL CLEANING CHEMICALS MARKET: DEALS (2018–2022)****12.8.2 PRODUCT LAUNCHES****TABLE 195 METAL CLEANING CHEMICALS MARKET: PRODUCT LAUNCHES (2018–2022)****12.8.3 OTHER DEVELOPMENTS****TABLE 196 METAL CLEANING CHEMICALS MARKET: EXPANSIONS, INVESTMENTS, AND INNOVATIONS (2018–2022)****13 COMPANY PROFILES****13.1 MAJOR PLAYERS**

(Business Overview, Products Offered, Recent Developments, Deals, Other developments, MnM view, Key strengths, Strategic choices, Weakness competitive threats) *

13.1.1 BASF SE**FIGURE 56 BASF SE: COMPANY SNAPSHOT****TABLE 197 BASF SE: COMPANY OVERVIEW****13.1.2 EVONIK INDUSTRIES AG****FIGURE 57 EVONIK INDUSTRIES AG: COMPANY SNAPSHOT****TABLE 198 EVONIK INDUSTRIES AG: COMPANY OVERVIEW****13.1.3 CLARIANT AG****FIGURE 58 CLARIANT AG: COMPANY SNAPSHOT****TABLE 199 CLARIANT AG: COMPANY OVERVIEW****13.1.4 STEPAN COMPANY****FIGURE 59 STEPAN COMPANY: COMPANY SNAPSHOT****TABLE 200 STEPAN COMPANY: COMPANY OVERVIEW****13.1.5 EASTMAN CHEMICAL COMPANY****FIGURE 60 EASTMAN CHEMICAL COMPANY: COMPANY SNAPSHOT**

TABLE 201 EASTMAN CHEMICAL COMPANY: COMPANY OVERVIEW

13.1.6 THE CHEMOURS COMPANY

FIGURE 61 THE CHEMOURS COMPANY: COMPANY SNAPSHOT

TABLE 202 THE CHEMOURS COMPANY: COMPANY OVERVIEW

13.1.7 DOW INC.

FIGURE 62 DOW INC.: COMPANY SNAPSHOT

TABLE 203 DOW INC.: BUSINESS OVERVIEW

13.1.8 QUAKER CHEMICAL CORPORATION

FIGURE 63 QUAKER CHEMICAL CORPORATION: COMPANY SNAPSHOT

TABLE 204 QUAKER CHEMICAL CORPORATION: COMPANY OVERVIEW

13.1.9 NOURYON

TABLE 205 NOURYON: COMPANY OVERVIEW

13.1.10 SOLVAY

FIGURE 64 SOLVAY: COMPANY SNAPSHOT

TABLE 206 SOLVAY: BUSINESS OVERVIEW

13.2 OTHER KEY MARKET PLAYERS

13.2.1 KYZEN CORPORATION

TABLE 207 KYZEN CORPORATION: COMPANY OVERVIEW

13.2.2 SPARTAN CHEMICAL COMPANY INC

TABLE 208 SPARTAN CHEMICAL COMPANY INC: COMPANY OVERVIEW

13.2.3 CHAUTAUQUA CHEMICALS COMPANY INC.

TABLE 209 CHAUTAUQUA CHEMICALS COMPANY INC.: COMPANY OVERVIEW

13.2.4 HUBBARD-HALL

TABLE 210 HUBBARD-HALL: COMPANY OVERVIEW

13.2.5 ZAVENIR DAUBERT

TABLE 211 ZAVENIR DAUBERT: COMPANY OVERVIEW

13.2.6 ENVIRO TECH INC.

TABLE 212 ENVIRO TECH INC.: COMPANY OVERVIEW

13.2.7 SURTEC

TABLE 213 SURTEC: COMPANY OVERVIEW

13.2.8 DST-CHEMICALS

TABLE 214 DST-CHEMICALS: COMPANY OVERVIEW

13.2.9 NUGENERATION TECHNOLOGIES

TABLE 215 NUGENERATION TECHNOLOGIES: COMPANY OVERVIEW

13.2.10 CREST CHEMICALS INC.

TABLE 216 CREST CHEMICALS INC.: COMPANY OVERVIEW

13.2.11 ZET-CHEMIE GMBH

TABLE 217 ZET-CHEMIE GMBH: COMPANY OVERVIEW

13.2.12 LINCOLN CHEMICAL

TABLE 218 LINCOLN CHEMICAL: COMPANY OVERVIEW

13.2.13 APEX INDUSTRIAL CHEMICALS LIMITED

TABLE 219 APEX INDUSTRIAL CHEMICALS LIMITED: COMPANY OVERVIEW

13.2.14 ENVIROSERVE CHEMICALS INC.

TABLE 220 ENVIROSERVE CHEMICALS INC.: COMPANY OVERVIEW

13.2.15 ACEROS METAL TREATMENT

TABLE 221 ACEROS METAL TREATMENT: COMPANY OVERVIEW

*Details on Business Overview, Products Offered, Recent Developments, Deals, Other developments, MnM view, Key strengths, Strategic choices, Weakness competitive threats might not be captured in case of unlisted companies.

14 ADJACENT & RELATED MARKETS

14.1 INTRODUCTION

14.2 LIMITATIONS

14.3 INDUSTRIAL CLEANING CHEMICALS MARKET

14.3.1 MARKET DEFINITION

14.3.2 MARKET OVERVIEW

14.3.3 INDUSTRIAL CLEANING CHEMICALS, BY REGION

TABLE 222 INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2019 (USD MILLION)

TABLE 223 INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2020–2026 (USD MILLION)

TABLE 224 INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2017–2019 (KILOTON)

TABLE 225 INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY REGION, 2020–2026 (KILOTON)

14.3.3.1 Asia Pacific

TABLE 226 ASIA PACIFIC: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 227 ASIA PACIFIC: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 228 ASIA PACIFIC: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 229 ASIA PACIFIC: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

14.3.3.2 North America

TABLE 230 NORTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 231 NORTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 232 NORTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 233 NORTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

14.3.3.3 Western Europe

TABLE 234 WESTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 235 WESTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 236 WESTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 237 WESTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

14.3.3.4 Central & Eastern Europe

TABLE 238 CENTRAL & EASTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 239 CENTRAL & EASTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 240 CENTRAL & EASTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 241 CENTRAL & EASTERN EUROPE: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

14.3.3.5 South America

TABLE 242 SOUTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 243 SOUTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 244 SOUTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)

TABLE 245 SOUTH AMERICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

14.3.3.6 Middle East & Africa

TABLE 246 MIDDLE EAST & AFRICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2017–2019 (USD MILLION)

TABLE 247 MIDDLE EAST & AFRICA: INDUSTRIAL CLEANING CHEMICALS MARKET SIZE, BY COUNTRY, 2020–2026 (USD MILLION)

TABLE 248 MIDDLE EAST & AFRICA: INDUSTRIAL CLEANING CHEMICALS

MARKET SIZE, BY COUNTRY, 2017–2019 (KILOTON)
TABLE 249 MIDDLE EAST & AFRICA: INDUSTRIAL CLEANING CHEMICALS
MARKET SIZE, BY COUNTRY, 2020–2026 (KILOTON)

15 APPENDIX

15.1 DISCUSSION GUIDE

15.2 KNOWLEDGESTORE: MARKETSANDMARKETS SUBSCRIPTION PORTAL

15.3 CUSTOMIZATION OPTIONS

15.4 RELATED REPORTS

15.5 AUTHOR DETAILS

I would like to order

Product name: Metal Cleaning Chemicals Market by Cleaner Type (Aqueous, Solvent), Metal Type (Steel, Aluminum, Cooper), Ingredient (Surfactants, Chelating Agent, Solvent), End-use Industry (Manufacturing, Automotive & Aerospace, Healthcare), & Region - Global Forecast to 2027

Product link: <https://marketpublishers.com/r/M2DE4399122EN.html>

Price: US\$ 4,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/M2DE4399122EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below
and fax the completed form to +44 20 7900 3970