

Isocyanate Market by Type (MDI, TDI, Aliphatic, Others) & Application (Rigid Foam, Flexible Foam, Paints & Coatings, Adhesive & Sealants, and Elastomers & Binders) - Global Trends & Forecast to 2019

<https://marketpublishers.com/r/I58B15365F6EN.html>

Date: June 2014

Pages: 286

Price: US\$ 5,650.00 (Single User License)

ID: I58B15365F6EN

Abstracts

Isocyanates are used to make various products, ranging from flexible or rigid lightweight foams to tough, stiff, and strong elastomers. This enables their use in variety of consumer and industrial applications. Some of the examples are thermal insulation of buildings, refrigerators, household furniture, automotive seating, packaging, cushioning, shoe soles. The major application of isocyanate is rigid foam, which accounts for a majority of their usage, followed by flexible foam, paints & coatings, adhesives & sealants, elastomers & binders, and other applications.

Of the three main isocyanate, methylene diphenyl diisocyanate (MDI) has been the most successful, as demonstrated by BASF (Germany). This success story is now spurred on by increased investment in the sector. TDI and aliphatic isocyanate are the sectors that have received the most funding, as the companies are investing to increase their isocyanate capacities by establishing new plants and expanding the capacities of the existing ones. BASF (Germany) and Bayer MaterialScience (Germany) appear to be breaking out as emerging winners. The share of aliphatic isocyanate and other isocyanate such as NDI is also increasing, driven by increased usage of paints & coatings, and adhesives & sealants.

The isocyanate market has a significant number of small as well as few big manufacturers. The companies in isocyanate market are segmented according to type of isocyanate produced by them. Some of the manufacturers focus on producing aromatic isocyanate (TDI & MDI), while others focus on producing aliphatic isocyanate

(HDI, IPDI) In the isocyanate market, the companies are focusing on geographic expansion to increase their presence around the globe. Major isocyanate producers are expanding their operations in emerging Asia-pacific countries, which are driving the isocyanate demand on account of the rise in their economic condition.

The isocyanate market has a specific set of raw materials, which are based on crude oil derivatives. Every isocyanate manufacturer uses different type of raw materials and ingredients to manufacture different types of isocyanate. The industry also lacks the need for bulk suppliers. The raw materials that are used in bulk are aniline, propylene, toluene, and benzene. These materials are not difficult to source, but their supply depends on crude oil production and price. The crude oil prices are very volatile and depend on various geo-political factors, so any rise in the price of crude oil will increase the price of raw materials for isocyanate. Price increases in raw materials force the manufacturers to increase the price of isocyanate-based products, which creates a threat of reduction in the demand.

This report analyzes various marketing trends and establishes the most effective growth strategy in the market. It identifies market dynamics such as the drivers, restraints, opportunities, burning issues, and winning imperatives. Major companies such as Ashai Kasei (Japan), BASF SE (Germany), Bayer MaterialScience (Germany), Chemtura Corporation (U.S.), Dow Chemical Company (U.S.), Evonik Industries (Germany), Hebei Cangzhou Dahua Group Co. Ltd (China), Huntsman Corporation (U.S.), Kumho Mitsui Chemicals Inc (South Korea), Mitsui Chemicals Inc (Japan), Vencorex (France), and Yantai Wanhua Polyurethanes Co. Ltd. (China) have also been profiled in this report.

Scope of the report

On the basis of region:

Asia-Pacific

China

Japan

India

Europe

Germany

Italy

Belgium

U.K.

Russia

North America

U.S.

Canada

The Middle East & Africa

Latin America

On the basis of types of Isocyanate:

Methylene diphenly di-isocyanate (MDI)

Toluene di-isocyanate (TDI)

Aliphatic isocyanate

Others

On the basis of application:

Rigid foam

Flexible foam

Paints & coatings

Adhesives & sealants

Elastomers & binders

Others

Contents

1 INTRODUCTION

- 1.1 KEY DELIVERABLES
- 1.2 REPORT DESCRIPTION
- 1.3 MARKETS COVERED
- 1.4 STAKEHOLDERS
- 1.5 RESEARCH METHODOLOGY
 - 1.5.1 MARKET SIZE ESTIMATION
 - 1.5.2 KEY DATA POINTS TAKEN FROM SECONDARY SOURCES
 - 1.5.3 LIST OF SECONDARY DATA SOURCES
 - 1.5.4 KEY DATA POINTS TAKEN FROM PRIMARY SOURCES
 - 1.5.5 ASSUMPTIONS MADE FOR THIS REPORT

2 EXECUTIVE SUMMARY

3 PREMIUM INSIGHTS

- 3.1 MARKET SEGMENTATION
- 3.2 ASIA-PACIFIC– BEST MARKET TO INVEST
- 3.3 ASIA-PACIFIC–TO CONTINUE DRIVING THE ISOCYANATES MARKET
- 3.4 METHYLENE DIPHENYL DIISOCYANATE: THE LARGEST TYPE OF ISOCYANATES
- 3.5 RIGID POLYURETHANE FOAM INDUSTRY– GROWING AT THE HIGHEST RATE
- 3.6 MDI IS THE DOMINANT PLAYER IN TERMS OF MARKET SIZE
- 3.7 BASF IS THE LARGEST PRODUCER OF ISOCYANATES
- 3.8 MOST COMPANIES RELIED ON CAPACITY EXPANSIONS FOR GROWTH
- 3.9 BAYER MATERIALSCIENCE– THE MOST ACTIVE PLAYER IN ISOCYANATES MARKET

4 MARKET OVERVIEW

- 4.1 INTRODUCTION
- 4.2 VALUE CHAIN ANALYSIS
- 4.3 BURNING ISSUES
 - 4.3.1 PRICING & TOXICITY ISSUES
- 4.4 WINNING IMPERATIVES
 - 4.4.1 FOCUS ON EXPANSION & INNOVATION

4.5 METHYLENE DIPHENYL DIISOCYANATE (MDI)

4.5.1 TYPES & APPLICATIONS

4.5.2 PRODUCTION

4.5.3 DRIVERS

4.5.3.1 Growth in end-user industries

4.5.3.2 Compliance with Energy Regulations

4.5.3.3 Growing Market in Asia-Pacific

4.5.4 RESTRAINTS

4.5.4.1 Rising Costs of Feedstock

4.5.5 OPPORTUNITIES

4.5.5.1 Phosgene Free MDI Production Process

4.6 TDI (TOLUENE DIISOCYANATE)

4.6.1 TYPES & APPLICATIONS

4.6.2 PRODUCTION

4.6.3 DRIVERS

4.6.3.1 Growth in End-use Industries

4.6.3.2 Growth in Emerging Economies

4.6.4 RESTRAINTS

4.6.4.1 Rising Toluene Costs

4.6.5 OPPORTUNITIES

4.6.5.1 Scope in the Automotive Industry

4.7 ALIPHATIC ISOCYANATES

4.7.1 PRODUCTION

4.7.1.1 HDI

4.7.1.2 IPDI

4.7.1.3 H12MDI

4.7.2 DRIVERS

4.7.2.1 Growth in End-use Industries

4.7.2.2 Growth in Emerging Economies

4.7.3 RESTRAINTS

4.7.4 OPPORTUNITIES

4.7.4.1 Scope in the Construction Industry

4.8 RAW MATERIAL ANALYSIS

4.8.1 CRUDE OIL

4.8.2 PROPYLENE

4.8.3 ANILINE

4.8.4 BENZENE

4.8.5 TOLUENE

4.8.6 PHOSGENE

4.9 MARKET SHARE ANALYSIS

4.10 PRICE ANALYSIS

4.10.1 MDI

4.10.2 TDI

4.11 PORTER'S FIVE FORCES ANALYSIS

4.11.1 SUPPLIERS' BARGAINING POWER

4.11.2 BUYERS' BARGAINING POWER

4.11.3 THREAT OF NEW ENTRANTS

4.11.4 THREAT OF SUBSTITUTES

4.11.5 DEGREE OF COMPETITION

5 ISOCYANATES MARKET, BY TYPE

5.1 INTRODUCTION

5.2 MARKET SHARE OF ISOCYANATES, BY TYPE

5.2.1 MDI CONTINUES TO BOOST THE MARKET

5.2.2 MDI

5.2.2.1 MDI has been Around for a Long Time

5.2.2.2 BASF: The Largest Producer of MDI

5.2.2.3 Emerging Economies Driving the Consumption

5.2.2.4 Rigid Foams: A major Application of MDI

5.2.3 TDI

5.2.3.1 Asia-Pacific Driving the Demand

5.2.3.2 Flexible Foam is Consumed in Large Quantities

5.2.4 ALIPHATIC ISOCYANATES

5.2.4.1 Market in Asia-Pacific Experiencing Significant Surge

5.2.4.2 Paints & Coatings: The Major Applications

5.2.5 OTHER ISOCYANATES

5.2.5.1 Other Isocyanates are used in Specific Applications

5.2.5.2 Several Types of Isocyanates yet to be Commercialized

6 ISOCYANATES MARKET, BY APPLICATION

6.1 INTRODUCTION

6.2 MARKET ANALYSIS, BY APPLICATION

6.2.1 RIGID FOAMS TO EXPERIENCE MAXIMUM GROWTH

6.2.2 RIGID FOAMS

6.2.2.1 Refrigerators & Construction Consume Large Quantities of Rigid Foam

6.2.2.2 Rigid Foam: The Demand Driven by Developing Economies

6.2.3 FLEXIBLE FOAMS

6.2.3.1 Flexible Foam Offers Unique Property of Weight Reduction, Attracting Automotive Manufacturers

6.2.3.2 Increasing Industrialization in Developing Economies Driving Market Growth

6.2.4 PAINTS & COATINGS

6.2.4.1 Paints & Coatings: Growing Demand will Drive the Market

6.2.5 ELASTOMERS & BINDER

6.2.5.1 Isocyanates Offer Superior Stress Recovery & Resistance Properties

6.2.5.2 Significant Demand in Asia-Pacific

6.2.6 ADHESIVES & SEALANTS

6.2.6.1 Demand Driven by Enhanced Usage in Automotive & Construction Sectors

6.2.6.2 Rising Automobiles & Constructions in Asia-Pacific Fuelling the Market Growth

6.2.7 OTHER APPLICATIONS

6.2.7.1 Isocyanates Are Used in Various Other Applications

6.2.7.2 Asia-Pacific: A Major Consumer

7 ISOCYANATES MARKET, BY GEOGRAPHY

7.1 MARKET SEGMENTATION

7.2 MARKET ESTIMATES, BY REGION

7.3 ASIA-PACIFIC TO DRIVE THE ISOCYANATES MARKET

7.3.1 ASIA-PACIFIC

7.3.1.1 Driven by Thriving Economies

7.3.1.2 The Asia-Pacific Market to Grow at a Rapid Pace

7.3.1.3 China

7.3.1.3.1 China: biggest consumer of isocyanates

7.3.1.3.2 Increase in demand & prices drives the growth in China

7.3.1.4 Japan

7.3.1.4.1 Japan—still reeling under the effects of the natural disasters

7.3.1.4.2 Japan has been one of the pioneer markets of isocyanates

7.3.1.5 India

7.3.1.5.1 India: An emerging market

7.3.1.5.2 India: High potential with strong growth

7.3.1.6 Rest of the Asia-Pacific

7.3.1.6.1 The region boasts of thriving economies

7.3.1.6.2 Rest of the Asia-Pacific: Huge possibility for growth

7.3.2 NORTH AMERICA

7.3.2.1 North America sustaining on strong demand

7.3.2.2 U.S.: The largest consumer of isocyanates in North America

7.3.2.3 U.S.

7.3.2.3.1 The isocyanates market is driven by demand from end-user industries

7.3.2.4 Canada

7.3.2.4.1 Canada: Huge potential for the isocyanates market

7.3.2.4.2 Canadian market: Experiencing high growth

7.3.3 EUROPE

7.3.3.1 Europe:—One of the major markets for isocyanates

7.3.3.2 Germany

7.3.3.2.1 Germany: Consumes significant quantities of isocyanates

7.3.3.2.2 Germany: Strong potential with attention of major isocyanates players

7.3.3.3 Italy

7.3.3.3.1 Italy: The mature market for isocyanates

7.3.3.3.2 Italy: Pursuit for efficiency fuelling the market growth

7.3.3.4 Belgium

7.3.3.4.1 Belgium: Still recovering from the euro crisis

7.3.3.4.2 Belgium: Expected to have a marginal growth

7.3.3.5 U.K.

7.3.3.5.1 U.K.: Poised for better growth

7.3.3.5.2 U.K.: Rising demand and increasing prices lifting the market

7.3.3.6 Russia

7.3.3.6.1 Russia: Uncertainty in the market

7.3.3.6.2 Russia: Market to remain subdued

7.3.3.7 Rest of Europe

7.3.3.7.1 Rest of Europe: Better economic conditions

7.3.3.7.2 Rest of Europe: Market to grow at a slow rate

7.3.4 THE MIDDLE EAST & AFRICA

7.3.4.1 Infrastructure development prevalent in the Middle East & Africa

7.3.4.2 The market is anticipated to remain underdeveloped

7.3.5 LATIN AMERICA

7.3.5.1 Developing economies estimated to drive the future growth

7.3.5.2 Latin America to grow at a significant pace

8 COMPETITIVE LANDSCAPE

8.1 INTRODUCTION

8.2 STRATEGIC DEVELOPMENTS

8.2.1 CAPACITY EXPANSION: THE MOST PREFERRED STRATEGIC APPROACH

8.2.2 ASIA-PACIFIC: THE MOST ACTIVE REGION

8.2.3 BAYER MATERIALSCIENCE & YANTAI WANHUA POLYURETHANES CO. LTD: THE MOST ACTIVE PARTICIPANTS

- 8.2.3.1 Capacity Expansion
- 8.2.3.2 Geographic Expansion
- 8.2.3.3 R&D Activity
- 8.2.3.4 Acquisition
- 8.2.3.5 Others

9 COMPANY PROFILES (OVERVIEW, FINANCIAL *, PRODUCTS & SERVICES, STRATEGY, AND DEVELOPMENTS)

- 9.1 ASAHI KASEI CHEMICALS CORP.
- 9.2 BASF SE
- 9.3 BAYER MATERIALSCIENCE AG
- 9.4 CHEMTURA CORPORATION
- 9.5 DOW CHEMICAL COMPANY
- 9.6 EVONIK INDUSTRIES
- 9.7 HEBEI CANGZHOU DAHUA GROUP CO. LTD.
- 9.8 HUNTSMAN INTERNATIONAL LLC
- 9.9 KUMHO MITSUI CHEMICALS INC.
- 9.10 MITSUI CHEMICALS INC.
- 9.11 VENCOREX
- 9.12 YANTAI WANHUA POLYURETHANES CO. LTD.

*Details might not be captured in case of unlisted companies.

List Of Tables

LIST OF TABLES

TABLE 1 TYPES OF MDI

TABLE 2 IMPACT OF MAJOR DRIVERS ON THE GLOBAL MDI MARKET, 2013-2019

TABLE 3 TYPES OF TDI

TABLE 4 IMPACT OF MAJOR DRIVERS ON THE GLOBAL TDI MARKET, 2013-2019

TABLE 5 TOP 10 LARGEST ECONOMIES BY GDP IN TERMS OF PPP, 2010 & 2020

TABLE 6 10 LARGEST GLOBAL ECONOMIES' TOTAL GDP IN TERMS OF PPP, (2020)

TABLE 7 TYPES & APPLICATIONS

TABLE 8 IMPACT OF MAJOR DRIVERS ON THE GLOBAL ALIPHATIC ISOCYANATE MARKET, 2013-2019

TABLE 9 ASIA-PACIFIC: CONSTRUCTION SPENDING GROWTH RATE, BY COUNTRY, 2013-2018

TABLE 10 ASIA-PACIFIC: CONSTRUCTION SPENDING, 2012 (\$BILLION)

TABLE 11 CRUDE OIL PRICES, BY TYPE, 2011-2015 (\$/BARREL)

TABLE 12 PROPYLENE BULK PRICES, 2013-2019 (\$/TON)

TABLE 13 ANILINE BULK PRICES, 2013-2019 (\$/TON)

TABLE 14 BENZENE BULK PRICES, 2013-2019 (\$/TON)

TABLE 15 TOULENE BULK PRICES, 2013-2019(\$/TON)

TABLE 16 GLOBAL MDI CAPACITY, 2013 (KT/YEAR)

TABLE 17 GLOBAL TDI CAPACITY, 2013 (KT/YEAR)

TABLE 18 GLOBAL HDI CAPACITY, 2013 (KT/YEAR)

TABLE 19 AVERAGE MDI PRICE, BY GEOGRAPHY, 2012-2019 (\$/TON)

TABLE 20 AVERAGE TDI PRICE, BY GEOGRAPHY, 2012-2019 (\$/TON)

TABLE 21 AVERAGE ALIPHATIC ISOCYANATES PRICE, BY GEOGRAPHY, 2012-2019 (\$/TON)

TABLE 22 ISOCYANATES MARKET SIZE, BY TYPE, 2014-2019 (KT)

TABLE 23 ISOCYANATES MARKET SIZE, BY TYPE, 2014-2019 (\$MILLION)

TABLE 24 MDI MARKET SIZE, BY REGION, 2014-2019 (KT)

TABLE 25 MDI MARKET SIZE, BY REGION, 2014-2019 (\$MILLION)

TABLE 26 MDI MARKET SIZE, BY APPLICATION, 2014-2019 (KT)

TABLE 27 MDI MARKET SIZE, BY APPLICATION, 2014-2019 (\$MILLION)

TABLE 28 COMPANIES THAT OFFER TDI

TABLE 29 TDI MARKET SIZE, BY REGION, 2014-2019 (KT)

TABLE 30 TDI MARKET SIZE, BY REGION, 2014-2019 (\$MILLION)

TABLE 31 TDI MARKET SIZE, BY APPLICATION, 2014-2019 (KT)

TABLE 32 TDI MARKET SIZE, BY APPLICATION, 2014-2019 (\$MILLION)

TABLE 33 COMPANIES THAT OFFER ALIPHATIC ISOCYANATES

TABLE 34 ALIPHATIC ISOCYANATES MARKET SIZE, BY REGION, 2014-2019 (KT)

TABLE 35 ALIPHATIC ISOCYANATES MARKET SIZE, BY REGION,2014-2019 (\$MILLION)

TABLE 36 ALIPHATIC ISOCYANATES MARKET SIZE, BY APPLICATION,2014-2019 (KT)

TABLE 37 ALIPHATIC ISOCYANATES MARKET SIZE, BY APPLICATION,2014-2019 (\$MILLION)

TABLE 38 OTHER ISOCYANATES MARKET SIZE, BY REGION, 2014-2019, (KT)

TABLE 39 OTHER ISOCYANATES MARKET SIZE, BY REGION,2014-2019 (\$MILLION)

TABLE 40 OTHER ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019 (KT)

TABLE 41 OTHER ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (\$MILLION)

TABLE 42 ISOCYANATES: INDUSTRYWIDE APPLICATIONS

TABLE 43 ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019 (KT)

TABLE 44 ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)

TABLE 45 RIGID FOAM MARKET SIZE, BY REGION, 2012-2019 (KT)

TABLE 46 RIGID FOAM MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

TABLE 47 FLEXIBLE FOAM MARKET SIZE, BY REGION, 2012-2019 (KT)

TABLE 48 FLEXIBLE FOAM MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

TABLE 49 PAINTS & COATING MARKET SIZE, BY REGION, 2012-2019, (KT)

TABLE 50 PAINTS & COATING MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

TABLE 51 ELASTOMERS & BINDERS MARKET SIZE, BY REGION, 2012-2019 (KT)

TABLE 52 ELASTOMERS & BINDERS MARKET SIZE, BY REGION,2012-2019 (\$MILLION)

TABLE 53 ADHESIVES & SEALANTS MARKET SIZE, BY REGION, 2012-2019(KT)

TABLE 54 ADHESIVES & SEALANTS MARKET SIZE, BY REGION,2012-2019 (\$MILLION)

TABLE 55 OTHER APPLICATION MARKET SIZE, BY REGION, 2012-2019 (KT)

TABLE 56 OTHER APPLICATION MARKET SIZE, BY REGION,2012-2019 (\$MILLION)

TABLE 57 ISOCYANATES MARKET SIZE, BY REGION, 2012-2019 (KT)

TABLE 58 ISOCYANATES MARKET SIZE, BY REGION, 2012-2019 (\$MILLION)

TABLE 59 ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY APPLICATION,2012–2019 (KT)

TABLE 60 ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY APPLICATION,2012–2019 (\$MILLION)

TABLE 61 ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (KT)

TABLE 62 ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019
(\$MILLION)

TABLE 63 ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY COUNTRY, 2012-2019
(KT)

TABLE 64 ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY COUNTRY, 2012-2019
(\$MILLION)

TABLE 65 CHINA: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019 (KT)

TABLE 66 CHINA: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019
(\$MILLION)

TABLE 67 CHINA: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (KT)

TABLE 68 CHINA: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (\$MILLION)

TABLE 69 JAPAN: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012–2019
(KT)

TABLE 70 JAPAN: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012–2019
(\$MILLION)

TABLE 71 JAPAN: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (KT)

TABLE 72 JAPAN: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (\$MILLION)

TABLE 73 INDIA: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012–2019 (KT)

TABLE 74 INDIA: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012–2019
(\$MILLION)

TABLE 75 INDIA: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (KT)

TABLE 76 INDIA: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (\$MILLION)

TABLE 77 REST OF THE ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY
APPLICATION, 2012–2019 (KT)

TABLE 78 REST OF THE ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY
APPLICATION, 2012–2019 (\$MILLION)

TABLE 79 REST OF THE ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY TYPE,
2012–2019 (KT)

TABLE 80 REST OF ASIA-PACIFIC: ISOCYANATES MARKET SIZE, BY
TYPE, 2012–2019 (\$MILLION)

TABLE 81 NORTH AMERICA: ISOCYANATES MARKET SIZE, BY APPLICATION,
2012–2019 (\$MILLION)

TABLE 82 NORTH AMERICA: ISOCYANATES MARKET SIZE, BY APPLICATION,
2012–2019 (\$MILLION)

TABLE 83 NORTH AMERICA: ISOCYANATES MARKET SIZE, BY TYPE, 2012- 2019
(KT)

TABLE 84 NORTH AMERICA: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019
(\$MILLION)

TABLE 85 NORTH AMERICA: ISOCYANATES MARKET SIZE, BY COUNTRY,2012–2019 (KT)

TABLE 86 NORTH AMERICA: ISOCYANATES MARKET SIZE, BY COUNTRY,2012–2019 (\$MILLION)

TABLE 87 U.S.: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012–2019 (KT)

TABLE 88 U.S.: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012–2019 (\$MILLION)

TABLE 89 U.S.: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (KT)

TABLE 90 U.S.: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (\$MILLION)

TABLE 91 CANADA: ISOCYANATES MARKET SIZE, BY APPLICATION,2012–2019 (KT)

TABLE 92 CANADA: ISOCYANATES MARKET SIZE, BY APPLICATION,2012–2019 (\$MILLION)

TABLE 93 CANADA: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (KT)

TABLE 94 CANADA: ISOCYANATES MARKET SIZE, BY TYPE,2012–2019 (\$MILLION)

TABLE 95 EUROPE: ISOCYANATES MARKET SIZE, BY APPLICATION,2012–2019 (KT)

TABLE 96 EUROPE: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (\$MILLION)

TABLE 97 EUROPE: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (KT)

TABLE 98 EUROPE: ISOCYANATES MARKET SIZE, BY TYPE,2012-2019 (\$MILLION)

TABLE 99 EUROPE: ISOCYANATES MARKET SIZE, BY COUNTRY, 2012-2019 (KT)

TABLE 100 EUROPE: ISOCYANATES MARKET SIZE, BY COUNTRY,2012-2019 (\$MILLION)

TABLE 101 GERMANY: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (KT)

TABLE 102 GERMANY: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (\$MILLION)

TABLE 103 GERMANY: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (KT)

TABLE 104 GERMANY: ISOCYANATES MARKET SIZE, BY TYPE,2012-2019 (\$MILLION)

TABLE 105 ITALY: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019 (KT)

TABLE 106 ITALY: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (\$MILLION)

TABLE 107 ITALY: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (KT)

TABLE 108 ITALY: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (\$MILLION)

- TABLE 109 BELGIUM: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (KT)
- TABLE 110 BELGIUM: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (\$MILLION)
- TABLE 111 BELGIUM: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (KT)
- TABLE 112 BELGIUM: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (\$MILLION)
- TABLE 113 U.K.: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019 (KT)
- TABLE 114 U.K.: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (\$MILLION)
- TABLE 115 U.K.: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (KT)
- TABLE 116 U.K.: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (\$MILLION)
- TABLE 117 RUSSIA: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (KT)
- TABLE 118 RUSSIA: ISOCYANATES MARKET SIZE, BY APPLICATION,2012-2019 (\$MILLION)
- TABLE 119 RUSSIA: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (KT)
- TABLE 120 RUSSIA: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (\$MILLION)
- TABLE 121 REST OF EUROPE: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019 (KT)
- TABLE 122 REST OF EUROPE: ISOCYANATES MARKET SIZE, BY APPLICATION, 2012-2019 (\$MILLION)
- TABLE 123 REST OF EUROPE: ISOCYANATES MARKET SIZE, BY TYPE,2012-2019 (KT)
- TABLE 124 REST OF EUROPE: ISOCYANATES MARKET SIZE, BY TYPE, 2012-2019 (\$MILLION)
- TABLE 125 THE MIDDLE EAST & AFRICA: ISOCYANATES MARKET SIZE,BY APPLICATION, 2012–2019 (KT)
- TABLE 126 THE MIDDLE EAST & AFRICA: ISOCYANATES MARKET SIZE,BY APPLICATION, 2012–2019 (\$MILLION)
- TABLE 127 THE MIDDLE EAST & AFRICA: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (KT)
- TABLE 128 THE MIDDLE EAST & AFRICA: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (\$MILLION)
- TABLE 129 LATIN AMERICA: ISOCYANATES MARKET SIZE, BY APPLICATION,2012–2019 (KT)
- TABLE 130 LATIN AMERICA: ISOCYANATES MARKET SIZE, BY APPLICATION,2012–2019 (\$MILLION)

TABLE 131 LATIN AMERICA: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (KT)

TABLE 132 LATIN AMERICA: ISOCYANATES MARKET SIZE, BY TYPE, 2012–2019 (\$MILLION)

TABLE 133 CAPACITY EXPANSION, 2010-2014

TABLE 134 GEOGRAPHIC EXPANSION, 2010-2014

TABLE 135 R&D ACTIVITY, 2010-2014

TABLE 136 ACQUISITION, 2010-2014

TABLE 137 OTHERS, 2009-2014

TABLE 138 ASAHI KASEI: ISOCYANATE PRODUCTION PLANTS AND CAPACITIES (TONS/YEAR)

TABLE 139 ASHAI KASEI: ISOCYANATES PRODUCTS & APPLICATIONS

TABLE 140 BASF: ISOCYANATES PRODUCTION PLANTS & CAPACITIES (TONS/YEAR)

TABLE 141 BASF: ISOCYANATES PRODUCTS & APPLICATIONS

TABLE 142 BAYER MATERIALSCIENCE: ISOCYANATE PRODUCTION PLANTS & CAPACITIES (TONS/YEAR)

TABLE 143 BAYER MATERIALSCIENCE :ISOCYANATES PRODUCTS & APPLICATIONS

TABLE 144 CHEMTURA CORPORATION: ISOCYANATES PRODUCTS & APPLICATIONS

TABLE 145 DOW CHEMICAL: ISOCYANATE PRODUCTION PLANTS & CAPACITIES (TONS/YEAR)

TABLE 146 DOW CHEMICAL: ISOCYANATE PRODUCT & APPLICATIONS

TABLE 147 EVONIK INDUSTRIES: ISOCYANATE PRODUCTS & APPLICATIONS

TABLE 148 CANGZHOU DAHUA: ISOCYANATE PRODUCTION PLANTS & CAPACITIES (TONS/YEAR)

TABLE 149 HUNTSMAN: ISOCYANATE PRODUCTION PLANT & CAPACITIES (TONS/YEAR)

TABLE 150 HUNTSMAN: ISOCYANATE PRODUCTS & APPLICATIONS

TABLE 151 KUMHO MITSUI CHEMICALS: ISOCYANATE PRODUCTS & APPLICATIONS

TABLE 152 MITSUI CHEMICALS: ISOCYANATE PRODUCTION PLANTS CAPACITIES (TONS/YEAR)

TABLE 153 MITSUI CHEMICALS: ISOCYANATE PRODUCTS & APPLICATIONS

TABLE 154 VENCOREX: HDI PRODUCTION PLANTS & CAPACITIES (TONS/YEAR)

TABLE 155 VENCOREX: ISOCYANATES PRODUCTS & APPLICATIONS

TABLE 156 YANTAI WANHUA: ISOCYANATE PRODUCTION PLANTS & CAPACITIES (TONS/YEAR)

TABLE 157 YANTAI WANHUA: ISOCYANATES PRODUCTS & APPLICATIONS

About

The global isocyanates market has been segmented into major geographical regions—Asia-Pacific, Europe, North America, Latin America, and the Middle East & Africa—under various major applications such as rigid foams, flexible foams, paints & coatings, adhesives & sealants, elastomers & binders, and others. The types of isocyanates that are identified and included are MDI, TDI, aliphatic isocyanates, and others.

MDI is predominantly used to manufacture rigid polyurethane foams, and it is used in non-foam applications such as paints & coatings, adhesives & sealants, and elastomers. PU rigid foams are the largest application for MDI and have significantly greater market share than the MDI non-foam applications market share. These rigid foams are predominantly used in construction applications for insulation. Other applications include consumer appliances, packaging, industrial, and insulation. TDI is predominantly used to manufacture flexible polyurethane foams and a small part of it is used to manufacture rigid foams, coatings, adhesives & sealants, and elastomers. Flexible foams are used as cushioning material in furniture and transportation applications, mainly in beds and car seats.

Aliphatic isocyanates are used in the manufacture of paints & coatings, adhesives & sealants, and elastomers. These products have decent demand in construction, housing, packaging, electronics, and transportation industries. There are other isocyanates also such as NDI (naphthalene 1, 5-diisocyanate), m-TMXDI (m-tetramethylenexylene diisocyanate), PPDI (p-phenylene diisocyanate), and MIC (methyl isocyanate). These isocyanates are used in diverse applications such as production of pesticides, rubbers, elastomers, and adhesives. The isocyanates market size in terms of value was \$XX million in 2013.

Isocyanates are not only highly toxic and hazardous, and they also result in polyurethanes being heavily dependent on fossil fuels. This poses a serious sustainability issue for market participants which are not only looking to reduce dependence on fossil fuels to reduce environmental impact in order to maintain business continuance.

The highly volatile crude oil price is forcing the isocyanates manufacturers to increase the price of their MDI, TDI, aliphatic isocyanates, and derivatives based on them, which may further result in decrease in demand. Increasing global demand and unrest in the

Middle East in recent times have been primarily responsible for this. On the other hand, the market is constantly shifting towards a tighter regulatory structure with prominent regulatory bodies such as the EPA (Environmental Protection Agency) and REACH (Registration, Evaluation, Authorisation and Restriction of Chemicals) setting stringent guidelines for industry participants.

Research is already underway to develop toxic-free manufacturing processes for the production of diisocyanates. A prime example of this is market participants such as Dow Chemicals, BASF, and Huntsman have been exploring phosgene free routes to MDI. This will include processes such as by synthesis of methyl phenyl carbamate (MPC) from aniline and dimethyl carbonate (DMC) feedstock and condensation of MPC with formaldehyde to form dimethyl methylene diphenyl dicarbamate (MDC). Also, market leaders, such as Bayer MaterialScience, have been focussing on bio-based polyols that are used to produce polyurethanes. This trend for sustainable polyurethane solutions is expected to strengthen in the next five years as the industry moves towards an environment-friendly business model.

I would like to order

Product name: Isocyanate Market by Type (MDI, TDI, Aliphatic, Others) & Application (Rigid Foam, Flexible Foam, Paints & Coatings, Adhesive & Sealants, and Elastomers & Binders) - Global Trends & Forecast to 2019

Product link: <https://marketpublishers.com/r/I58B15365F6EN.html>

Price: US\$ 5,650.00 (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/I58B15365F6EN.html>