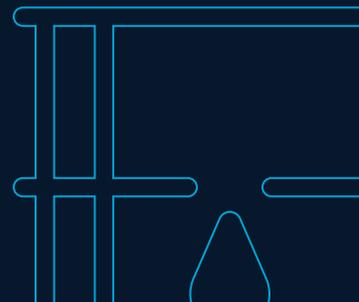
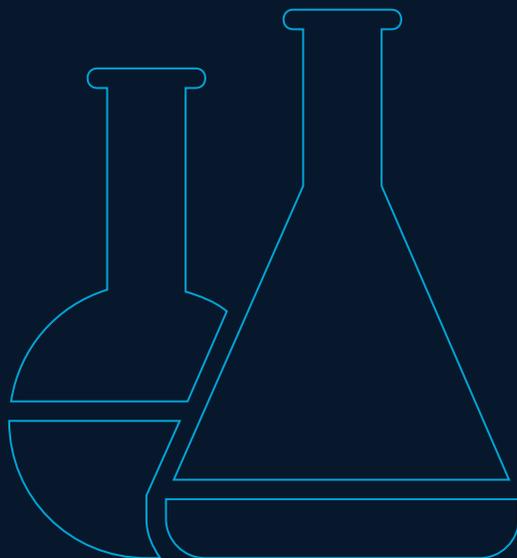
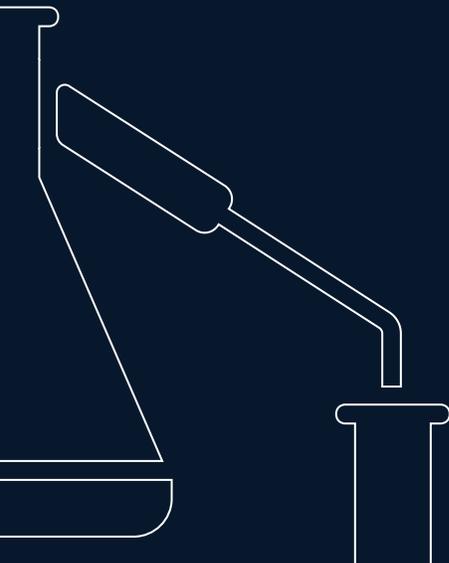


CHEMICAL MARKET ANALYTICS

BY OPIS, A DOW JONES COMPANY

Chemical Market Analytics

Short-term and long-term market coverage for over 200 core building block chemicals



CHEMICAL MARKET ANALYTICS

BY OPIS, A DOW JONES COMPANY

News Corp and Dow Jones have completed the acquisition of the IHS Markit base chemicals business. The business will now operate under the name **Chemical Market Analytics by OPIS**, a Dow Jones company.

Base Chemicals will sit within Dow Jones' Professional Information Business (PIB), joining Oil Price Information Service (OPIS), Coal, Metals & Mining (CMM) and PetroChem Wire (PCW), all recently acquired by Dow Jones.

Dow Jones will play a leading role in new energy, chemicals and renewable vertical.

The Chemical Market Analytics by OPIS, a Dow Jones company, business provides short-term and long-term market coverage for over 200 core building block chemicals, provided in Market Advisory Services (MAS), World Analysis (WA), Circular Plastics Service, and the Chemical Advisory Service.

The best-in-class
Insights and service...



Data and validation



People and procedures



Robust data delivery
and services

Subscription Solutions Provide Our Clients With Vast Market Knowledge

Leveraging our data analysis and insight technology enables our clients to:



Make better decisions by understanding the cause effect physics of chemical markets economic behaviors



Assess risks for product economic performance



Price index contracts with our industry essential price benchmarking data (PRA)



Achieve an integrated view from wellhead to consumer



Gain advantage by utilizing our significant focus on where the market is going in the future driving forces and potential inflections



Proactively incorporate chemical sustainability implications on industry fundamentals in strategy



Develop commercial operational strategies



Understand implications of chemical commodities trade on local markets



Dissect market participants financial performance

DATA

ANALYSES

Information

Products incorporating validated primary and secondary fact-sets

Analytics & Insight

Systems, data, insights, and people focused on workflows incorporating data & product knowledge

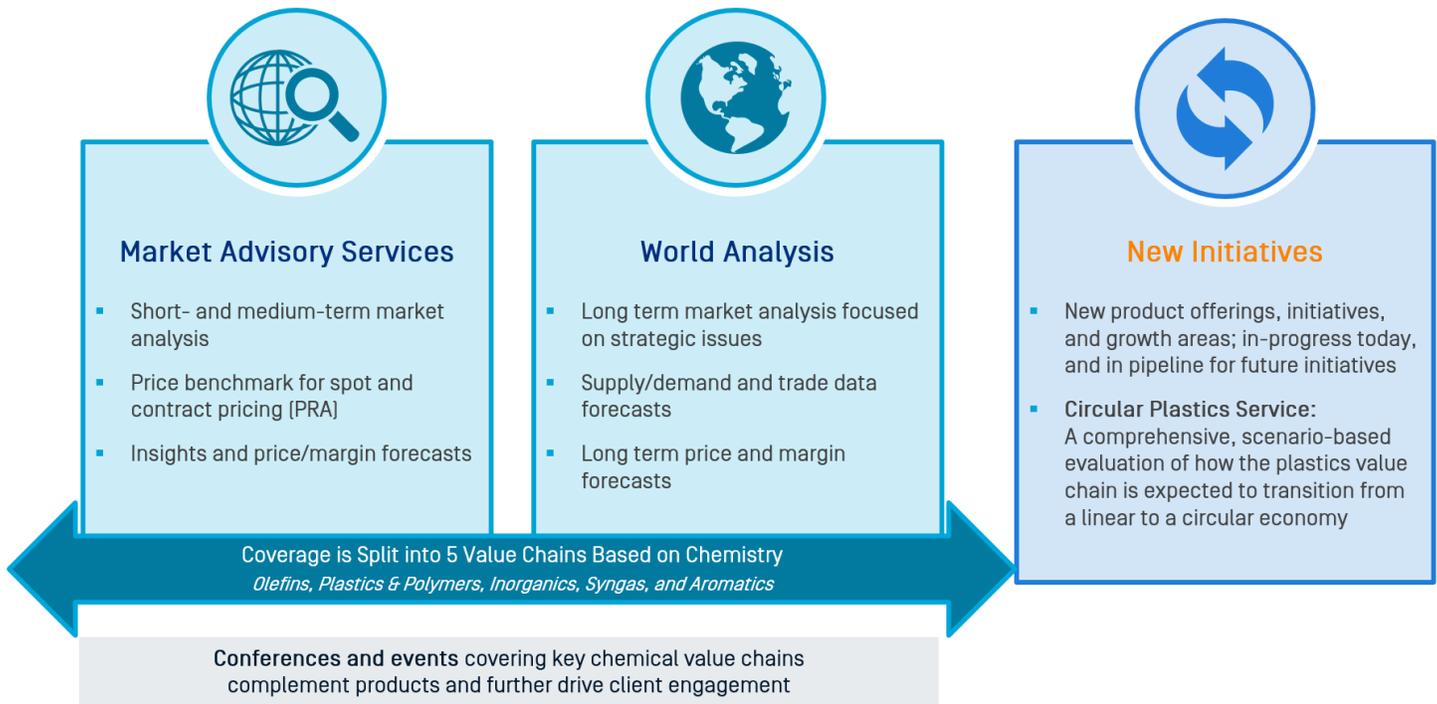
Expertise

Long-term and issue-specific interactive solutions



Increase Value
Increasing Skills
& Costs

Our Mission Critical Solutions are Based on Data, Analytics, and Insights



We Are the Best in the Market

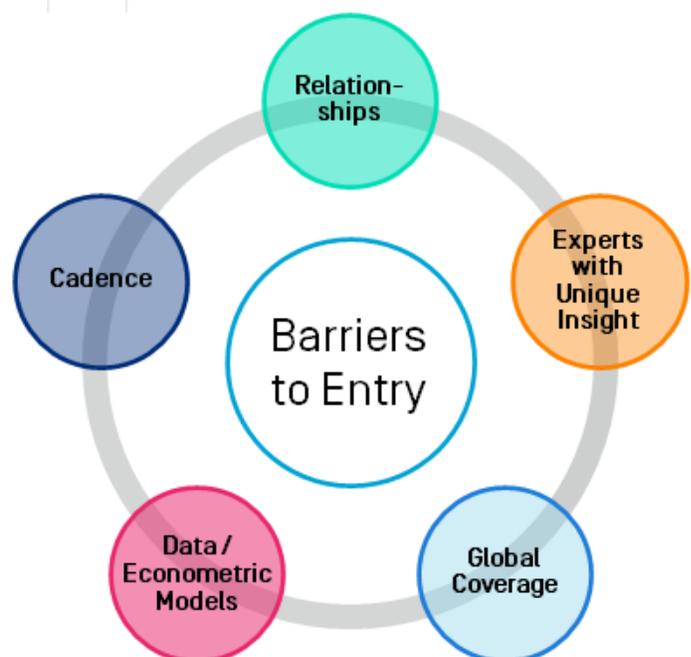
Critical mass of **industry-seasoned experts** down the value-chains as well as cross-value chains providing a truly integrated view

Broad and deep **relationships** with industry participants at all levels within organizations developed through commercial industry insight

Colleagues on the ground, in all major geographies to provide true **global coverage**

Ability to continually assess, review and update internal models, data and insight in order to provide a regular **cadence** of services

40+ years of in-house **historical data, vetted econometric models** and insight



Market Advisory Services Provides Data-Based Analytics and Price Assessments

MAS provides accurate current and near-term market data and analysis for five basic chemical families; product is distributed daily, weekly, bi-weekly or monthly through reports and/or data supplements

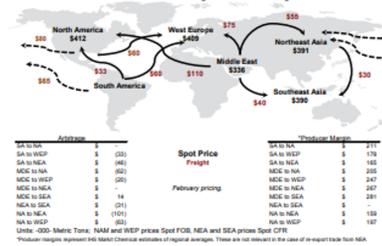
Report Contents:

- ✓ Price reporting and assessment: Market prices, costs, and/ or margins (historical, current, forecast), used in benchmarking and contracts
- ✓ Extensive expert commentary on prices, margins, trade, market conditions, operational issues and future trends impacting markets
- ✓ Quarterly supply/demand balances and trade flows

West Europe HDA Variable Margins



Methanol Trade: Arbitrage & Producer Margins



China PE Monthly Supply (Resin Only)



Inquiry and Market Analyst Access Privileges

Subscribers receive access to Chemical experienced industry professionals for market advice related to the service's respective product coverage



Price Assessment

Customers use our critical data and technology for spot and contract pricing. We are the industry benchmark, creating inelastic demand for our key pricing data



Market Insight and Analytics

Chemical Market Advisory Services offer monthly and weekly data, analytics, and service solutions (daily solutions are offered for products traded more actively). MAS covers five basic chemical families

Chemical Market Advisory Services include:

Olefins & Derivatives

- Asia C4 Olefins & Elastomers
- Asia Light Olefins
- Europe/Middle East Light Olefins
- Global Acrylates & SAP
- Global Acrylonitrile & Derivatives
- Global C4 Olefins & Elastomers
- Global Oxo Alcohols & Plasticizers
- Global Ethylene Oxide, Glycol & Derivatives
- Global Tire Raw Material Indices
- North America Light Olefins

Methanol & Others

- Global Acetyls
- Global Methanol

Aromatics & Fibers

- Asia Aromatics
- Europe Aromatics
- Global Acetone
- Global Ethylene Oxide & Glycol
- Global Nylon Fibers & Feedstocks
- Global PET Stream
- Global Polyurethane Feedstocks
- Global Polyester Fibers & Feedstocks
- North America Aromatics

Chlor-Alkali & Vinyls

- Global Bleaching Chemicals
- Global Chlor-Alkali
- Global Soda Ash
- Global Vinyls

Plastics & Polymers

- Asia Polyethylene
- Asia Polypropylene
- Asia, Middle East & India Plastics & Polymers
- China Polyolefins - Mandarin
- Europe Plastics & Polymers
- Global Engineering Resins
- Global Plastics & Polymers
- North America Polyethylene
- North America Polypropylene
- Circular Plastics Service

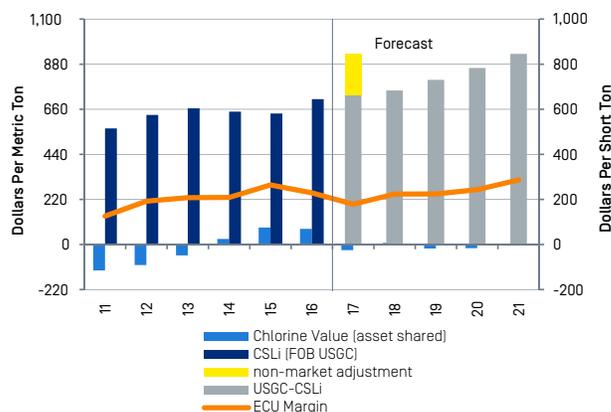
Chemical Advisory Service (CAS)

Designed exclusively for investors. The Chemical Advisory Service arms financial and capital investors with data, analysis and tools to allow them to make critical investment decisions portfolio returns.

China PE Monthly Supply (Resin Only)



USGC Chlor-Alkali Annual ECU Economics¹



World Analysis Provides Critical Long-Term Insights-Based Technology

World Analysis provides long-term chemical market trends; supports strategic planning; business reviews by adding robust operations support, with current actionable data and expert analysis



Supply & Demand

Bi-annually updated supply demand database

Enables user to assess operating rates as a key driver of product financial performance



Global Capacity

Real time capacity database

Updated views of supply, including independent views of actual capacity & real start-up dates

Dynamic and historical perspective of the global supply picture



Detailed Country Level Trade Grids

Bi-annually updated trade data

Volume patterns of trade
 Changing domestic market price structure & margin pressures

Data on what countries are the biggest importers and exporters



Quarterly 10 Year Forecasts

Regularly updated price, cost and margin data enables user to sync long-term price forecast more closely with on-going changes in global energy and economic markets



Upside & Downside Sensitivities

Sensitivities assessment on the upside and downside price drivers

Assessment of underpinning forces capable of driving price behavior and corresponding margins away from the Base Case trend line



Interactive User Interface

Tableau Interface helps users quickly and efficiently visualize and analyze the data

Personalized information view

Critical data and dynamic tools to accelerate your planning process



Long-term Market Validation - Chemical Market Analytics World Analysis service

OLEFINS & DERIVATIVES

- Acrylic Acid & Acrylates
- Acrylonitrile
- Butadiene
- Butylenes*
- Ethylene Oxide & Ethylene Glycol
- Ethylene
- Oxo Alcohols
- Propylene
- Propylene Oxide
- Rubber
- Nitrile Latex*

AROMATICS & FIBRES

- Benzene
- Cumene/Phenol & Acetone
- Nylon Feedstocks
- Nylon Fibers
- Paraxylene
- Polyester
- PTA/DMT
- Styrene
- Toluene & Xylenes
- MDI
- TDI

PLASTICS & POLYMERS

- ABS
- Expandable Polystyrene
- Nylon Engineering Resins
- Polyethylene
- Polypropylene
- Polystyrene
- Polycarbonate
- POM Polymers
- Polybutylene*
- Terephthalate*

INORGANICS

- Chlor-Alkali
- Soda Ash
- Vinyls

SYNGAS

- Acetyls
- Formaldehyde & Resins
- Methanol
- MTBE

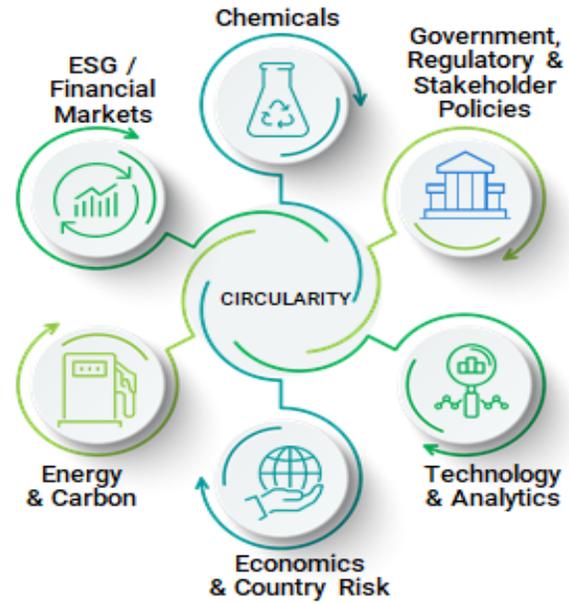
- Full version
- Abbreviated version with price forecast
- Abbreviated version
- * Data-only version

World Analysis product features segmented into three versions

Product Features	Full version	Abbreviated version with price forecast	Abbreviated version
Report (PDF) & data appendix (Excel)	✓	✓	✓
Interactive data visualization module	✓	✓	✓
Online supply/Demand & capacity data with 10-year forecast	✓	✓	✓
Plant production capacities (Global by company & shareholder)	✓	✓	✓
Capacity expansions/Closures & new projects	✓	✓	✓
Top producers/Consumers ranking tables	✓	✓	✓
Capacity integration (Major derivatives)	As available	As available	As available
Economy & energy assumptions	✓	✓	✓
Production process/Technology overview	✓	✓	✓
Standard supply/Demand graphs	✓	✓	✓
Trade grids (Global by region & country)	✓	✓	✓
Product price/Cost & margin forecasts (10 years)	✓	✓	
Production economics (Cost calculations)	✓	Selected	
Base case assumptions	✓	✓	
Sensitivity assessments	✓	✓	
Regional summaries	✓		
Global overviews of major derivatives	Selected		

Circular Plastics Service

Circular Plastics Service is positioned to be the expert source in providing data and addressing the critical questions being raised by the plastics transition to circularity



<p>Regulations, Policy, ESG</p>	<p>Global regulations, stakeholder policies, alliances & NGOs targets and initiatives</p>
<p>Demand Risk</p>	<p>Scenario demand modeling, visualization and insight for virgin and mechanically recycled plastics with regional and end use segmentation</p>
<p>Waste Collection and Repositioning Plastics Waste into Valued Feedstock</p>	<p>Scenario modeling and insight for collection and disposition of plastics waste via landfill, incineration, mechanical recycling and chemical recycling. Analyses of plastics waste supply including categories, volumes, specifications & quality requirements.</p>
<p>Plastics Recycling Technology</p>	<p>Technology scanning and scenario-based economic modeling for recycling technologies. Database of recyclers capacities, alliances, inputs & outputs, facilities commercialization progress.</p>
<p>Economic & Environmental Assessment</p>	<p>Scenario-based modeling and insight to evaluate the economics and emissions for circular plastics production compared to incumbent, fossil-based linear model for producing plastics.</p>
<p>Strategic Issues & Implications</p>	<p>Semi-annual update of strategic conclusions derived from the detailed analyses targeted at identifying risks, investment opportunities, infrastructure needs, and recommended positioning & actions for industry participants.</p>

Chemical Market Analytics Global Team

Global Leadership Team



Dewey Johnson
Global Head of Chemical
Market Analytics



Steve Lewandowski
Global Olefins &
Derivatives Team Lead



Chuck Carr
World Analysis
Strategic Team Lead



Mike Nash
Global Syngas Team
Lead



Carlo Barrasa
Global Energy
Team Lead



Duncan Clark
Global Aromatics &
Fibers Team Lead



Hazel Keruz
Global Inorganics
Team Lead



James Williamson
Global Financial & Capital
Markets Team Lead



Nick Vafiadis
Global Plastics &
Polymers Team Lead

Aromatics & Fibres Global Team



Duncan Clark
Global Aromatics &
Fibers Team Lead



Ashish Pujari
Asia Aromatics Global
Polyurethane
Feedstocks
Polyester Fibers &
Feedstocks
Polyester Stream



Alan Lu
China Aromatics &
Fibers Lead



David Potter
Europe Acetone



Peter Feng
Americas Styrenics



Marcelo Wasem
Americas Purified
Terephthalic Acid
Polyethylene Terephthalate



Meiko Woo
Nylon Fibers &
Feedstocks



Roberto Ribeiro
Global Ethylene Oxide
& Ethylene Glycol



Prem Chitkara
Europe, Middle-East &
Africa Polyester &
EOEG



Tobias Spyra
EMEA Styrenics &
Polyurethane Feedstocks



James Nicholson
America Benzene,
Pygas, Reformate



Simon Cleghorn
EMEA Benzene, Pygas



Omi Tatsuo
Asia Pygas, Mixed
Xylenes, Reformate,
Toluene



Brian Lee
Asia Benzene,
Styrene Lead



Wei Ding
Asia PTA, Polyester



Anthony Tso
Asia Aromatics



See Yan Wong
Polyurethane
Feedstock

Olefins & Derivatives Global Team



Steve Lewandowski
Global Olefins & Derivatives Team Lead



Bill Hyde
Global C4 Olefins & Elastomers



Kevin Longworth
Global Acrylonitrile



Remko Koster
EMEA C4 & Elastomers



William Chen
Asia Light Olefins



Anthony Song
Asia C4 Olefins & Elastomers



Matthew Thaelke
EMEA Ethylene & Propylene



Mike Park
Asia Light Olefins



Tracy Cui
America Olefins



Pablo Giogi
North America Light Olefins



Joyce Lee
Global Acrylates & SAP
Global Oxo Alcohols & Plasticizer



Julian Gunther
Global Acrylates & SAP
Global Oxo Alcohols & Plasticizer

Plastic & Polymers Global Team



Nick Vafiadis
Global Plastics & Polymers Team Lead



Joel Morales
Global Plastics & Polymers
North America Polyethylene
North America Polypropylene



Anthony Palmer
Global Circular Plastics Sustainability Lead



Brendon Dooley
Global Engineering Plastics



Martin Wieswag
EMEA Plastics Lead



Robin Waters
Global Circular Plastics Sustainability



Stefano Caporusso
EMEA Engineering Plastics



Kaushik Mitra
Europe Plastics & Polymers



Jonny Goyal
Circular Plastics Sustainability



Daniel Siow
Southeast Asia Styrenics & ABS



Fabrizio Galie
EMEA Polyolefins



Utpal Sheth
Asia Plastics & Polymer Lead



Preeti Sriram
North America Nylon, PBT, POM



Yi Ling Tan
Southeast Asia Polyolefins



Hongyan Xu
Asia Engineering Plastics



Terrine Ooi
North America Polyolefins



Alan Wei
China Polyolefins (Mandarin)



JP Nah
Southeast Asia Polyolefins



Svetlana Panteleeva
European Polymer

Inorganics Global Team



Hazel Keruz
Global Inorganics
Team Lead



Angel Fernandez
Global Bleaching
Chemicals
Service Lead



Eddie Kok
Global Vinyls Service
Lead



Nick Kovics
Global Chlor-Alkali
Service Lead



Marguerite Morrin
Global SodaAsh
Service Lead



Ana Lopez
Americas Chlorine
& Vinyls



Henry Warren
EMEA Chlorine & Vinyl



Lina Suarez
North America
Caustic Soda



Wilson Loh
Asia Chlor-Alkali



Gordan Guo
Asia Vinyls



Hasan Copur
Global Soda Ash



Xngyu Zhu
Mainland China
Vinyls & Chlor-Alkali



Francesco Martella
EMEA Chlor-Alkali



**Joao Pacheco
Gaspar**
Global Soda Ash



Catherine Webster
North America
Bleaching Chemicals

Syngas Global Team



Mike Nash
Global Syngas Team
Lead Americas
Acetyls



Geoffrey Mullet
EMEA/India Methanol



Javier Ortiz
North & South
America Methanol



Xiaomeng Ma
Asia Methanol



Julian Skibitzki
Europe, MiddleEast & Africa
Indian Subcontinent
Acetyls



Leshan Hou
Asia Acetyls

Chemicals Research- Financial & Capital Markets



James Williamson
Financial & Capital
Markets Team Lead

World Analysis – Strategic Analytics Team



Chuck Carr
World Analysis-Strategic
Analytics Team Lead



Bettina Schroeder

Global Energy Team



Carlo Barrasa
Global Energy
Team Lead

Upcoming Chemical Market Analytics Events

GLOBAL CHLOR-ALKALI, VINYL & POLYURETHANES CONFERENCE

Munich, Germany | 12-16 September 2022 | [Learn More](#)

GPS + PEPP

Chicago, USA | 20 - 22 September 2022 | [Learn More](#)

WORLD SODA ASH CONFERENCE

Sorrento, Italy | 11-13 October 2022 | [Learn More](#)

ASIA CHEMICAL FORUM (INCLUDING ACRYLONITRILE)

Singapore | 2-4 November 2022 | [Learn More](#)

40TH WORLD METHANOL CONFERENCE

Barcelona, Spain | 15 -17 November 2022 | [Learn More](#)

WORLD CHEMICAL FORUM

Houston, Texas, USA | 20-22 March 2023 | [Learn More](#)

For Event Enquiries & Partnership Opportunities

E rebecca.lopez@chemicalmarketanalytics.com

E nicole.morris@chemicalmarketanalytics.com

About Chemical Market Analytics by OPIS, a Dow Jones Company

Chemical Market Analytics by OPIS, a Dow Jones company, provides stakeholders in the global chemical industry with next-generation analytics, deep insights, future outlooks and price discovery to improve operational efficiency.

The company offers short- and long-term market coverage for more than 200 core building-block chemicals via Market Advisory Services (MAS), World Analysis (WA), Circular Plastics Service, Chemical Advisory Service and educational and networking conferences such as World Chemical Forum.

NORTH AMERICA

+1 888.301.2645 (toll-free within the U.S.)

INTERNATIONAL

+1 301.284.2000

EMAIL

support@chemicalmarketanalytics.com