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ARGUS CHLOR-ALKALI AND DERIVATIVES

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The most up-to-date Argus Chlor-Alkali and Derivatives methodology is available on www.argusmedia.com

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Methodology overview

Methodology rationale

Argus strives to construct methodologies that reflect the way the market trades. Argus aims to produce price assessments which are reliable and representative indicators of commodity market values and are free from distortion. As a result, the specific currencies, volume units, locations and other particulars of an assessment are determined by industry conventions.

In the chlor-alkali and derivatives markets, Argus publishes physical market prices in the open market as laid out in the specifications and methodology guide. Argus uses the trading period deemed by Argus to be most appropriate, in consultation with industry, to capture market liquidity.

In order to be included in the assessment process, deals must meet the minimum volume, delivery, timing and specification requirements in our methodology. In illiquid markets, and in other cases where deemed appropriate, Argus assesses the range within which product could have traded by applying a strict process outlined later in this methodology.

Survey process

Argus price assessments are informed by information received from a wide cross-section of market participants, including producers, consumers and intermediaries. Argus reporters engage with the industry by proactively polling participants for market data. Argus will contact and accept market data from all credible market sources including front and back office of market participants and brokers. Argus will also receive market data from electronic trading platforms and directly from the back offices of market participants. Argus will accept market data by telephone, instant messenger, email or other means.

Argus encourages all sources of market data to submit all market data to which they are a party that fall within the Argus stated methodological criteria for the relevant assessment. Argus encourages all sources of market data to submit transaction data from back office functions.

Throughout all markets, Argus is constantly seeking to increase the number of companies willing to provide market data. Reporters are mentored and held accountable for expanding their pool of contacts. The number of entities providing market data can vary significantly from day to day based on market conditions.

For certain price assessments identified by local management, if more than 50pc of the market data involved in arriving at a price assessment is sourced from a single party, the supervising editor will engage in an analysis of the market data with the primary reporter to ensure that the quality and integrity of the assessment has not been affected.

Market data usage

In each market, Argus uses the methodological approach deemed to be the most reliable and representative for that market. Argus will utilise various types of market data in its methodologies, to include:

- Transactions
- Bids and offers
- Other market information, to include spread values between grades, locations, timings, and many other data.

In many markets, the relevant methodology will assign a relatively higher importance to transactions over bids and offers, and a relatively higher importance to bids and offers over other market information. Certain markets however will exist for which such a hierarchy would produce unreliable and non-representative price assessments, and so the methodology must assign a different relative importance in order to ensure the quality and integrity of the price assessment. And even in markets for which the hierarchy normally applies, certain market situations will at times emerge for which the strict hierarchy would produce non-representative prices, requiring Argus to adapt in order to publish representative prices.

Verification of transaction data

Reporters carefully analyse all data submitted to the price assessment process. These data include transactions, bids, offers, volumes, counterparties, specifications and any other information that contributes materially to the determination of price. This high level of care described applies regardless of the methodology employed. Specific to transactions, bids, and offers, reporters seek to verify the price, the volume, the specifications, location basis, and counterparty. In some transactional average methodologies, reporters also examine the full array of transactions to match counterparties and arrive at a list of unique transactions. In some transactional average methodologies, full details of the transactions verified are published electronically and are accessible by subscribers.

Several tests are applied by reporters in all markets to transactional data to determine if they should be subjected to further scrutiny. If a transaction has been identified as failing such a test, it will receive further scrutiny. For assessments used to settle derivatives and for many other assessments, Argus has established internal procedures that involve escalation of inquiry within the source's company and escalating review within Argus management. Should this process determine that a transaction should be excluded from the price assessment process, the supervising editor will initiate approval and, if necessary, documentation procedures.

Primary tests applied by reporters

- Transactions not transacted at arms length, including deals between related parties or affiliates.
- Transaction prices that deviate significantly from the mean of all transactions submitted for that day.
- Transaction prices that fall outside of the generally observed lows and highs that operated throughout the trading day.
- Transactions that are suspected to be a leg of another transaction or in some way contingent on an unknown transaction.
- Single deal volumes that significantly exceed the typical transaction volume for that market.
- Transaction details that are identified by other market participants as being for any reason potentially anomalous and perceived by Argus to be as such.

- Transaction details that are reported by one counterparty differently than the other counterparty.
- Any transaction details that appear to the reporter to be illogical or to stray from the norms of trading behaviour. This could include but is not limited to divergent specifications, unusual delivery location and counterparties not typically seen.
- Transactions that involve the same counterparties, the same price and delivery dates are checked to see that they are separate deals and not one deal duplicated in Argus records.

Secondary tests applied by editors for transactions identified for further scrutiny

Transaction tests

- The impact of linkage of the deal to possible other transactions such as contingent legs, exchanges, options, swaps, or other derivative instruments. This will include a review of transactions in markets that the reporter may not be covering.
- The nature of disagreement between counterparties on transactional details.
- The possibility that a deal is directly linked to an offsetting transaction that is not publicly known, for example a "wash trade" which has the purpose of influencing the published price.
- The impact of non-market factors on price or volume, including distressed delivery, credit issues, scheduling issues, demurrage, or containment.

Source tests

- The credibility of the explanation provided for the outlying nature of the transaction.
- The track record of the source. Sources will be deemed more credible if they
 - Regularly provide transaction data with few errors.
 - Provide data by Argus' established deadline.
 - Quickly respond to queries from Argus reporters.
 - Have staff designated to respond to such queries.
- How close the information receipt is to the deadline for information, and the impact of that proximity on the validation process.

Assessment guidelines

When insufficient, inadequate, or no transaction information exists, or when Argus concludes that a transaction-based methodology will not produce representative prices, Argus reporters will make an assessment of market value by applying intelligent judgment based on a broad array of factual market information. Reporters must use a high degree of care in gathering and validating all market data used in determining price assessments, a degree of care equal to that applying to gathering and validating transactions. The information used to form an assessment could include deals done, bids, offers, tenders, spread trades, exchange trades, fundamental supply and demand information and other inputs.

The assessment process employing judgment is rigorous, replicable, and uses widely accepted valuation metrics. These valuation metrics mirror the process used by physical commodity traders

to internally assess value prior to entering the market with a bid or offer. Applying these valuation metrics along with sound judgment significantly narrows the band within which a commodity can be assessed, and greatly increases the accuracy and consistency of the price series. The application of judgment is conducted jointly with the supervising editor, in order to be sure that guidelines below are being followed. Valuation metrics include the following:

Relative value transactions

Frequently transactions occur which instead of being an outright purchase or sale of a single commodity, are instead exchanges of commodities. Such transactions allow reporters to value less liquid markets against more liquid ones and establish a strong basis for the exercise of judgment.

- Exchange one commodity for a different commodity in the same market at a negotiated value.
- Exchange delivery dates for the same commodity at a negotiated value.
- Exchange a commodity in one location for the same commodity at another location at a negotiated value.

Bids and offers

If a sufficient number of bids and offers populate the market, then in most cases the highest bid and the lowest offer can be assumed to define the boundaries between which a deal could be transacted.

Comparative metrics

- The relative values between compared commodities are readily discussed in the market and can be discovered through dialogue with market participants. These discussions are the precursor to negotiation and conclusion of transactions.
- Comparison to the same commodity in another market centre.
- Comparison to a more actively traded but slightly different specification commodity in the same market centre.
- Comparison to the same commodity traded for a different delivery timing.
- Comparison to the commodity's primary feedstock or primary derived product(s).
- Comparison to trade in the same commodity but in a different modality (as in barge versus oceangoing vessel) or in a different total volume (as in full cargo load versus partial cargo load).

Volume minimums and transaction data thresholds

Argus typically does not establish thresholds strictly on the basis of a count of transactions, as this could lead to unreliable and non-representative assessments and because of the varying transportation infrastructure found in all commodity markets. Instead, minimum volumes are typically established which may apply to each transaction accepted, to the aggregate of transactions, to transactions which set a low or high assessment or to other volumetrically relevant parameters.

For price assessments used to settle derivatives, Argus will seek to establish minimum transaction data thresholds and when no such threshold can be established, Argus will explain the reasons. These thresholds will often reflect the minimum volumes necessary to

produce a transaction-based methodology, but may also establish minimum deal parameters for use by a methodology that is based primarily on judgment.

Should no transaction threshold exist, or should submitted data fall below this methodology's stated transaction data threshold for any reason, Argus will follow the procedures outlined elsewhere in this document regarding the exercise of judgment in the price assessment process.

Transparency

Argus values transparency in energy markets. As a result, where available, we publish lists of deals in our reports that include price, basis, counterparty and volume information. The deal tables allow subscribers to cross check and verify the deals against the prices. Argus feels transparency and openness is vital to developing confidence in the price assessment process.

Swaps and forwards markets

Argus publishes forward assessments for numerous markets. These include forward market contracts that can allow physical delivery and swaps contracts that swap a fixed price for the average of a floating published price. Argus looks at forward swaps to inform physical assessments but places primary emphasis on the physical markets.

Publications and price data

Argus caustic soda, chlorine and PVC prices are published in the Argus Chlor-Alkali and Derivatives report. Subsets of these prices appear in other Argus market reports and newsletters in various forms. The price data are available independent of the text-based report in electronic files that can feed into various databases. These price data are also supplied through various third-party data integrators. The Argus website also provides access to prices, reports and news with various web-based tools. All Argus prices are kept in a historical database and available for purchase. Contact your local Argus office for information.

A publication schedule is available at www.argusmedia.com

Corrections to assessments

Argus will on occasion publish corrections to price assessments after the publication date. We will correct errors that arise from clerical mistakes, calculation errors, or a misapplication of our stated methodology. Argus will not retroactively assess markets based on new information learned after the assessments are published. We make our best effort to assess markets based on the information we gather during the trading day assessed.

Ethics and compliance

Argus operates according to the best practices in the publishing field, and maintains thorough compliance procedures throughout the firm. We want to be seen as a preferred provider by our subscribers, who are held to equally high standards, while at the same time maintaining our editorial integrity and independence. Argus has a strict ethics policy that applies to all staff. The policy can be found on our website at www.argusmedia.com. Included in this

policy are restrictions against staff trading in any energy commodity or energy related stocks, and guidelines for accepting gifts. Argus also has strict policies regarding central archiving of email and instant messenger communication, maintenance and archiving of notes, and archiving of spreadsheets and deal lists used in the price assessment process. Argus publishes prices that report and reflect prevailing levels for open-market arms length transactions (please see the [Argus Global Compliance Policy](#) for a detailed definition of arms length).

Consistency in the assessment process

Argus recognises the need to have judgment consistently applied by reporters covering separate markets, and by reporters replacing existing reporters in the assessment process. In order to ensure this consistency, Argus has developed a programme of training and oversight of reporters. This programme includes:

- A global price reporting manual describing among other things the guidelines for the exercise of judgment
- Cross-training of staff between markets to ensure proper holiday and sick leave backup. Editors that float between markets to monitor staff application of best practices
- Experienced editors overseeing reporting teams are involved in daily mentoring and assisting in the application of judgment for illiquid markets
- Editors are required to sign-off on all price assessments each day, thus ensuring the consistent application of judgment.

Review of methodology

The overriding objective of any methodology is to produce price assessments which are reliable and representative indicators of commodity market values and are free from distortion. As a result, Argus editors and reporters are regularly examining our methodologies and are in regular dialogue with the industry in order to ensure that the methodologies are representative of the market being assessed. This process is integral with reporting on a given market. In addition to this ongoing review of methodology, Argus conducts reviews of all of its methodologies and methodology documents on at least an annual basis.

Argus market report editors and management will periodically and as merited initiate reviews of market coverage based on a qualitative analysis that includes measurements of liquidity, visibility of market data, consistency of market data, quality of market data and industry usage of the assessments. Report editors will review:

- Appropriateness of the methodology of existing assessments
- Termination of existing assessments
- Initiation of new assessments.

The report editor will initiate an informal process to examine viability. This process includes:

- Informal discussions with market participants
- Informal discussions with other stakeholders
- Internal review of market data

Should changes, terminations, or initiations be merited, the report editor will submit an internal proposal to management for review and approval. Should changes or terminations of existing assessments be approved, then formal procedures for external consultation are begun.

Changes to methodology

Formal proposals to change methodologies typically emerge out of the ongoing process of internal and external review of the methodologies. Formal procedures for external consultation regarding material changes to existing methodologies will be initiated with an announcement of the proposed change published in the relevant Argus report. This announcement will include:

- Details on the proposed change and the rationale
- Method for submitting comments with a deadline for submissions
- For prices used in derivatives, notice that all formal comments will be published after the given consultation period unless submitter requests confidentiality.

Argus will provide sufficient opportunity for stakeholders to analyse and comment on changes, but will not allow the time needed to follow these procedures to create a situation wherein unrepresentative or false prices are published, markets are disrupted, or market participants are put at unnecessary risk. Argus will engage with industry throughout this process in order to gain acceptance of proposed changes to methodology. Argus cannot however guarantee universal acceptance and will act for the good order of the market and ensure the continued integrity of its price assessments as an overriding objective.

Following the consultation period, Argus management will commence an internal review and decide on the methodology change. This will be followed by an announcement of the decision, which will be published in the relevant Argus report and include a date for implementation. For prices used in derivatives, publication of stakeholders' formal comments that are not subject to confidentiality and Argus' response to those comments will also take place.

Introduction

Argus Chlor-Alkali and Derivatives is a monthly report on the global, regional and national caustic soda, chlorine and polyvinyl chloride (PVC) markets.

A weekly update, including price assessments for selected imports and exports specified below, is also published.

Contract and import/export price assessments

Argus assesses the price agreed under regional and national term contracts and the price of the markets for import or export of the commodity to or from a region. In both cases, the price of term contracts is treated in the same way.

All price assessments are published as a low-high range.

Price changes are published as the change between the published low-high midpoints of the assessments.

Domestic contract assessments

There is no single contract price for a given commodity in a regional or national market. Independent producers and consumers agree contract prices on an arms length basis. Contract size, logistical and other concerns may result in prices varying significantly among contracts.

Argus surveys market participants on the outright price of a contract and on the change in contract price over time.

If responses to the survey are so wide as to be deemed unrepresentative of, or of little use to, the market in determining the price of material, Argus, in consultation with the market, will publish a narrower price range representing contracts struck without benefit from or the encumbrance of contract size, logistical or other concerns that may affect the price.

Import/export assessments

Argus also assesses the price of the market for imports and exports. These assessments include term contract information, as described above, and reported spot trade that meets the delivery and other specifications outlined below to provide the most representative view of the market for imports and exports of caustic soda.

Market information may be excluded from the assessment process if it is deemed unrepresentative of the market at the time of assessment.

Publication timing

The Argus Chlor-Alkali and Derivatives report is published monthly on the last Friday of the month unless the last Friday of the month is a public holiday in the UK or is the last business day of the month in the US.

For those months, Argus Chlor-Alkali and Derivatives is published on the last business day before the last Friday of the month. A publication schedule is available at www.argusmedia.com

Chlor-Alkali and derivatives price assessments are made on the day of publication unless the day of publication is a public holiday in the US or Singapore. In those cases, US or Asian price assessments will be made on the last business day before the public holiday. For example, US price assessments are made on the Wednesday before the Thursday Thanksgiving holiday.

A weekly price supplement and market update is published every Friday, except during the week when the full Argus Chlor-Alkali and Derivatives report is published.

The weekly price supplement and market update includes the following price assessments:

Caustic soda North America domestic barge
Caustic soda fob USGC export
Caustic soda fob northwest Europe export
Caustic soda cfr Mediterranean and Black Sea import
Caustic soda fob northeast Asia export
Caustic soda cfr southeast Asia import
Caustic soda solid fob China export
Caustic soda domestic China 50pc

Unit of measure

Caustic soda prices are assessed in dry metric tonnes (dmt), liquid metric tonnes (lmt), liquid kilograms (lkg) or dry short tons (dst) as specified below.

PVC and chlorine prices are assessed in metric tonnes (t) as specified below.

Product grade

All chlor-alkali production technologies including membrane, mercury and diaphragm are included in Argus caustic soda price assessments, with the exception of the domestic China 50pc and export China solid price assessments, as noted below.

Assessment timing

Argus Chlor-Alkali and Derivatives includes weekly, monthly and quarterly price assessments. Monthly price assessments are published in the report for the month of delivery or loading. Quarterly price assessments are published in the report for the first month of the quarter of delivery or loading.

Assessments and specifications					
	Location and basis	Currency /unit	Timing	Specification	Indicative/minimum volume
Americas					
Caustic soda					
North America contract	fob USGC	\$/dst	monthly, for delivery during the month of assessment	any product grade	
North America domestic barge	fob USGC	\$/dst	weekly. A monthly range of the highest high and lowest low of the weekly assessments since the last monthly report.	any product grade	
Northeast US contract	ex-tank northeast US, including Connecticut, Delaware, Maine, Massachusetts, New Hampshire, New Jersey, New York and Rhode Island	\$/dst	monthly, for delivery during the month of assessment	any product grade	10,000-50,000 dst/yr
Southeast US contract	ex-tank southeast US, including Florida, Georgia, North Carolina, South Carolina and Virginia	\$/dst	monthly, for delivery during the month of assessment	any product grade	10,000-50,000 dst/yr
Midwest US contract	ex-tank midwest US, including the Mississippi River above Louisiana; Chicago Cincinnati and St Louis	\$/dst	monthly, for delivery during the month of assessment	any product grade	10,000-50,000 dst/yr
West coast US contract	ex-tank Pacific coast	\$/dst	monthly, for delivery during the month of assessment	any product grade	10,000-50,000 dst/yr
US export	fob USGC (Texas or Louisiana) for export from the US	\$/dmt	weekly. A monthly range of the highest high and lowest low of the weekly assessments since the last monthly report is also published	any product grade	2,000-5,000 dmt/vessel
Brazil contract	ex-tank Brazil	\$/dmt	monthly, for delivery during the month of assessment		tanker truck volumes
Brazil import	cfr Brazil	\$/dmt	monthly	any product grade	2,000-5,000 dmt/vessel
Chlorine					
US domestic contract	delivered USGC	\$/st	monthly, for delivery during the month of assessment	any product grade	2,000st
Hydrochloric acid					
US west coast contract	free delivered US west coast	\$/st	monthly, for delivery during the month of assessment	22 degree baume	truck volumes
US Gulf coast contract	free delivered US Gulf coast	\$/st	monthly, for delivery during the month of assessment	22 degree baume	truck volumes
Northeast US contract	free delivered northeast US	\$/st	monthly, for delivery during the month of assessment	22 degree baume	truck volumes
Southeast US contract	free delivered southeast US	\$/st	monthly, for delivery during the month of assessment	22 degree baume	truck volumes
US midwest contract	free delivered US midwest	\$/st	monthly, for delivery during the month of assessment	22 degree baume	truck volumes
Potassium hydroxide					
US midwest contract	ex-works US midwest	¢/lb	monthly, for delivery during the month of assessment	liquid 45pc	truck volumes
US east coast contract	ex-works US east coast	¢/lb	monthly, for delivery during the month of assessment	liquid 45pc	truck volumes
PVC					
S-PVC pipe HC del east of Rockies	See the Argus PVC and Vinyls methodology - prices are the latest published in Argus PVC and Vinyls				

Location and basis	Currency /unit	Timing	Specification	Indicative/minimum volume
Europe				
Caustic soda				
Solid caustic soda pearls northwest Europe contract (monthly)	€/dmt	monthly, for delivery during the quarter of assessment	any product grade	typical barge/truck volumes
Northwest Europe contract (quarterly)	€/dmt	quarterly, for delivery during the quarter of assessment	any product grade	2,000-10,000dmt/yr
<i>Note: The northwest Europe contract price range is the highest high and lowest low of the price ranges assessed for Germany and the Benelux region (see below).</i>				
Germany contract	€/dmt	quarterly, for delivery during the quarter of assessment	any product grade	2,000-10,000 dmt/yr
Benelux contract	€/dmt	quarterly, for delivery during the quarter of assessment	any product grade	2,000-10,000 dmt/yr
UK	£/dmt	quarterly, for delivery during the quarter of assessment	any product grade	2,000-10,000 dmt/yr
Southern Europe contract	€/dmt	monthly, for delivery during the month of assessment	any product grade	2,000-10,000 dmt/yr
Central and eastern Europe (CEE)	€/dmt	quarterly, for delivery during the quarter of assessment	any product grade	2,000-10,000 dmt/yr
Central and eastern Europe (CEE)	€/dmt	monthly, for delivery during the month of assessment	any product grade	2,000-10,000 dmt/yr
Nordic contract	€/dmt	quarterly, for delivery during the quarter of assessment	any product grade	25,000-70,000 dmt/yr
Export fob Northwest Europe	\$/dmt	weekly. A monthly range of the highest high and lowest low of the weekly assessments since the last monthly report is also published	any product grade	2,000-5,000 dmt/vessel
Import cfr Mediterranean and Black Sea	\$/dmt	weekly. A monthly range of the highest high and lowest low of the weekly assessments since the last monthly report is also published	any product grade	2,000-5,000 dmt/vessel
Polyvinyl chloride (PVC)				
S-PVC pipe del northwest Europe contract	See the Argus PVC and Vinyls methodology - prices are the latest published in Argus PVC and Vinyls			
Potassium hydroxide				
Benelux contract	€/dmt	quarterly, for delivery during the quarter of assessment	liquid 50pc	typical barge/truck volumes
Germany contract	€/dmt	quarterly, for delivery during the quarter of assessment	liquid 50pc	typical barge/truck volumes
Northwest Europe contract	€/t	monthly, for delivery during the quarter of assessment	flakes	typical barge/truck volumes

Location and basis	Currency /unit	Timing	Specification	Indicative/minimum volume
Asia-Pacific				
Caustic soda				
Export fob northeast Asia	fob northeast Asia	\$/dmt	weekly. A monthly range of the highest high and lowest low of the weekly assessments since the last monthly report is also published	any product grade 2,000-5,000 dmt/vessel
Import cfr southeast Asia	cfr southeast Asia	\$/dmt	weekly. A monthly range of the highest high and lowest low of the weekly assessments since the last monthly report is also published	any product grade 2,000-5,000 dmt/vessel
Domestic China 50pc	ex-factory within China	Yn/dmt	weekly. A monthly range of the highest high and lowest low of the weekly assessments since the last monthly report is also published	48-50pc membrane 20,000-100,000 dmt/yr
Domestic Thailand	free-delivered Thailand	baht/lmt (Bt/lmt)	monthly, for delivery during the month of assessment	liquid, 50pc 20 lmt tanker load
Domestic Malaysia	free-delivered Malaysia	ringgit/lmt	monthly, for delivery during the month of assessment	liquid, 50pc 20 lmt tanker load
Domestic Singapore	free-delivered Singapore	S\$/dmt	monthly, for delivery during the month of assessment	liquid, 50pc 20 lmt tanker load
Domestic Indonesia	free-delivered Indonesia	rupiah/lkg	monthly, for delivery during the month of assessment	liquid, 50pc 20 lmt tanker load
Domestic India	free-delivered, ex-tank India	rupee/dmt (Rs/dmt)	monthly, for delivery during the month of assessment	liquid, 50pc 20 lmt tanker load
Middle East export month range	fob Middle East ports	\$/dmt	monthly	liquid, 50pc 2,500dmt
99pc solid export fob China solid	cfr China main port	\$/t	weekly. A monthly range of the highest high and lowest low of the weekly assessments since the last monthly report is also published	99pc flakes 20 foot container volumes
Potassium hydroxide				
Import cfr Asia	cfr Asia	\$/t	monthly, for delivery during the month of assessment	solid 20 foot container volumes