

U.S. PURCHASERS' QUESTIONNAIRE

MULTIFUNCTIONAL ACRYLATE AND METHACRYLATE MONOMERS, AND ACRYLATED BISPHENOL-A EPOXY BASED OLIGOMERS (MAMMOs) FROM SOUTH KOREA AND TAIWAN

This questionnaire must be received by the Commission by **September 19, 2025**

See last page for instructions regarding how to file this questionnaire.

The information called for in this questionnaire is for use by the United States International Trade Commission in connection with its countervailing duty and antidumping investigations concerning multifunctional acrylate and methacrylate monomers, and acrylated bisphenol-A epoxy based oligomers ("MAMMOs") from South Korea and Taiwan (Inv. No. 701-TA-759 and 731-TA-1740-1741 (Final)). The information requested in the questionnaire is requested under the authority of the Tariff Act of 1930, title VII. This report is mandatory and failure to reply as directed can result in a subpoena or other order to compel the submission of records or information in your possession (19 U.S.C. § 1333(a)). Further information on this questionnaire can be obtained from Steven di Stefano (202-205-2465, steven.distefano@usitc.gov).

Name of firm _____

Address _____

City _____ State _____ Zip Code _____

Website _____

Has your firm purchased MAMMOs (as defined on the next page) for any source (domestic or imported) at any time since January 1, 2022?

☐ **NO** (Sign the certification below and promptly return only this page of the questionnaire to the Commission)

☐ **YES** (Complete all parts of the questionnaire, and return the entire questionnaire to the Commission)

Return questionnaire via the Commission's secure portal by clicking on the following link:

<https://usitc.gov/qportal> (PIN: **MAMMO**, Phase: **FINAL**). See last page for detailed instructions.

CERTIFICATION

I certify that the information herein supplied in response to this questionnaire is complete and correct to the best of my knowledge and belief and understand that the information submitted is subject to audit and verification by the Commission. By submitting this certification I also grant consent for the Commission, and its employees and contract personnel, to use the information provided in this questionnaire and throughout this proceeding in any other import-injury proceedings conducted by the Commission on the same or similar merchandise.

I, the undersigned, acknowledge that information submitted in response to this request for information and throughout this proceeding or other proceedings may be disclosed to and used: (i) by the Commission, its employees and Offices, and contract personnel (a) for developing or maintaining the records of this or a related proceeding, or (b) in internal investigations, audits, reviews, and evaluations relating to the programs, personnel, and operations of the Commission including under 5 U.S.C. Appendix 3; or (ii) by U.S. government employees and contract personnel, solely for cybersecurity purposes. I understand that all contract personnel will sign appropriate nondisclosure agreements.

Name of Authorized Official

Title of Authorized Official

Date

Signature

Phone

Email address

PART I.—GENERAL INFORMATION

Background.--This proceeding was instituted in response to a petition filed on March 27, 2025 by Arkema, Inc, King of Prussia, Pennsylvania. Countervailing and antidumping duties may be assessed on the subject imports as a result of these proceedings if the Commission makes an affirmative determination of injury, threat, or material retardation, and if the U.S. Department of Commerce ("Commerce") makes an affirmative determination of subsidization and dumping. Pertinent information to this proceeding is available at:

Questionnaires: https://usitc.gov/reports/active_import_injury_questionnaires.

Other case information: <https://ids.usitc.gov/case/8275/investigation/8758>

MAMMOs covered by this proceeding are certain multifunctional acrylate and methacrylate monomers, and acrylated bisphenol-A epoxy based oligomers (collectively, certain monomers and oligomers or CMOs) that are derived from chemical reactions involving the use of acrylic or methacrylic acid. Products within the scope are listed below and have the following Chemical Abstracts Service (CAS) numbers:

CAS Number	Description	Molecular Formula
109-16-0	Triethylene glycol dimethacrylate (TEGDMA)	$C_{14}H_{22}O_6$
13048-33-4	1,6-hexanediol diacrylate (HDDA)	$C_{12}H_{18}O_4$
42978-66-5	Tripropylene glycol diacrylate (TPGDA)	$C_{15}H_{24}O_6$
3290-92-4	Trimethylolpropane trimethacrylate (TMPTMA)	$C_{18}H_{26}O_6$
15625-89-5	Trimethylolpropane triacrylate (TMPTA)	$C_{15}H_{20}O_6$
28961-43-5	Ethoxylated trimethylolpropane triacrylate (EOTMPTA)	$(C_2H_4O)_n(C_2H_4O)_n(C_2H_4O)_nC_{15}H_{20}O_6$
57472-68-1	Dipropylene glycol diacrylate (DPGDA)	$C_{12}H_{18}O_5$
55818-57-0	Bisphenol-A-epichlorohydrin copolymer acrylate (EPOXY ACRYLATE)	$(C_{15}H_{16}O_2.C_3H_5ClO)_x.C_3H_4O_2$

The monomers are generally known as multifunctional acrylates (MFAs) or multifunctional methacrylates (MFMA) depending on whether the functional groups are acrylate or methacrylate. The monomers generally contain stabilizers/inhibitors, which include but are not limited to Hydroquinone, Methyl Hydroquinone, and Butylated Hydroxy Toluene. The monomers are either difunctional or trifunctional (having 2 or 3 functional groups/molecule), have viscosities of 9 to 15 centipoise (cPs) at 25 degrees Celsius (if difunctional) or 44 to 110 cPs at 25 degrees Celsius (if trifunctional), have (meth)acrylate equivalent weights (molecular weight per number of functional groups) between 99 and 158 and molecular weights between 226 and 472 grams per mol.

The acrylated bisphenol-A epoxy based oligomer is commonly referred to as epoxy acrylate or acrylated epoxy. In contrast to epoxy resin, the main characteristic of the epoxy acrylate oligomer is that it contains acrylate functional groups which make them curable by free-radical polymerization. The epoxy

acrylate has a molecular weight between 508 to 536 grams per mol and a viscosity of 2400 to 3600 cPs at 65 degrees Celsius. The epoxy acrylate generally contains stabilizers/inhibitors, which include but are not limited to Hydroquinone, Methyl Hydroquinone, and Butylated Hydroxy Toluene.

Certain monomers and oligomers are subject to the scope even if an in-scope monomer or oligomer is blended or mixed with one or more other in-scope monomers or oligomers.

Certain monomers and oligomers in any blend or mixture are also subject to the scope, so long as the blend or mixture contains no less than 20 percent by weight of in-scope CMOs.

The scope includes merchandise matching the above description that has been processed in a third country, including by commingling, diluting, introducing, or removing ingredients, or performing any other processing that would not otherwise remove the merchandise from the scope of the investigation if performed in the subject country.

The scope also includes CMOs that are commingled, mixed or blended with in-scope product from sources not subject to this investigation.

Only the subject component(s) of such blends, mixtures or commingled products described above is covered by the scope of this investigation. Subject merchandise contained in a blended, mixed or commingled product described above will not have undergone a chemical reaction as a result of being blended, mixed or commingled.

Notwithstanding the above, specifically excluded from the scope are downstream products, including but not limited to, inks, coatings and overprint varnishes. For purposes of this exclusion, the downstream product requires only the application of energy to be cured, e.g., inks or varnish applied to packaging, coatings applied to wood flooring, etc. The energy source required to cure the downstream product to its substrate can be thermal, ultraviolet radiation, visible light, electron beam radiation, or infrared radiation.

MAMMOs are currently imported under statistical reporting numbers 2916.12.5050, 2916.14.2050, 3824.99.2900, 3907.29.0000 and 3907.30.0000 of the Harmonized Tariff Schedule of the United States (HTSUS). They may also be imported under HTSUS statistical reporting numbers 2916.12.1000 and 3824.99.9397. The HTSUS provisions are for convenience and customs purposes; the written description of the scope is dispositive.

1,000 pounds contained MAMMOs.--Report quantity for any product that is in-scope, as defined on pp. 2 to 4 of the questionnaire, including the individual MAMMOs and any blends containing at least 20% of those individually identified MAMMOs. For blends, however, only report the quantity of the individual MAMMOs contained in the blends and exclude the weight of any out-of-scope molecules or other non-MAMMO additives. Quantity data are also being asked for in terms of 1,000 pounds. This means that if your firm had, for example, two-hundred and forty thousand pounds of sales of MAMMOs (240,000 pounds) that data would be reported as "240" in the relevant form field (i.e., the quantity as measured in pounds divided by 1,000).

Purchaser.--Any firm engaged, either directly or through a parent company or subsidiary, in purchasing MAMMOs from another firm that produces, imports, or otherwise distributes MAMMOs.

Reporting of information.--If information is not readily available from your records, provide carefully prepared estimates. If your firm is completing more than one questionnaire (i.e., a producer, importer, and/or purchaser questionnaire), you need not respond to duplicated questions.

Confidentiality.--The commercial and financial data furnished in response to this questionnaire that reveal the individual operations of your firm will be treated as confidential by the Commission to the extent that such data are not otherwise available to the public and will not be disclosed except as may be required by law (see 19 U.S.C. § 1677f). Such confidential information will not be published in a manner that will reveal the individual operations of your firm; however, general characterizations of numerical business proprietary information (such as discussion of trends) will be treated as confidential business information only at the request of the submitter for good cause shown.

Verification.--The information submitted in this questionnaire is subject to audit and verification by the Commission. To facilitate possible verification of data, please keep all files, worksheets, and supporting documents used in the preparation of the questionnaire response. Please also retain a copy of the final document that you submit.

Release of information.--The information provided by your firm in response to this questionnaire, as well as any other business proprietary information submitted by your firm to the Commission in connection with this proceeding, may become subject to, and released under, the administrative protective order provisions of the Tariff Act of 1930 (19 U.S.C. § 1677f) and section 207.7 of the Commission's Rules of Practice and Procedure (19 CFR § 207.7). This means that certain lawyers and other authorized individuals may temporarily be given access to the information for use in connection with this proceeding or other import-injury proceedings conducted by the Commission on the same or similar merchandise; those individuals would be subject to severe penalties if the information were divulged to unauthorized individuals.

I-1. **Reporting requirements.**--Please report the actual number of hours required and the cost to your firm of completing this questionnaire for use by the Office of Management and Budget.

Hours	Dollars

Public reporting burden for this questionnaire is estimated to average 20 hours per response, including the time for reviewing instructions, gathering data, and completing and reviewing the questionnaire.

We welcome comments regarding the accuracy of this burden estimate, suggestions for reducing the burden, and any suggestions for improving this questionnaire. Please provide such comments to the Office of Investigations, import_injury@usitc.gov.

I-2a. **Establishments covered.**--Provide the name and address of your U.S. establishment(s) covered by this questionnaire, if different from that listed on the cover page. **Firms operating more than one establishment should combine the data for all establishments into a single response.**

"Establishment"--Each facility of a firm involved in the purchase of MAMMOs, including auxiliary facilities operated in conjunction with (whether or not physically separate from) such facilities.

--

I-2b. **Stock symbol information.**-- If your firm or parent firm is publicly traded, please specify the stock exchange and trading symbol: _____.

I-2c. **External counsel.**-- If your firm or parent firm is represented by external counsel in relation to this proceeding, having filed an entry of appearance, please specify the name of the law firm and the lead attorney(s).

Law firm:	
Lead attorney(s):	

I-3. **Ownership.**--Is your firm owned, in whole or in part, by any other firm?

☐ No ☐ Yes--List the following information, relating to the ultimate parent/owner.

Firm name	Country	Extent of ownership (percent)

I-4. **Related producers/importers/exporters.**--Does your firm have any related firms, either domestic or foreign, that produce MAMMOs, import MAMMOs into the United States, or export MAMMOs to the United States?

"Related firm" --A firm that your firm solely or jointly owned, managed, or otherwise controlled; a firm that solely or jointly owned, managed, or otherwise controlled your firm; and/or a firm that was solely or jointly owned, managed, or otherwise controlled by a firm that also solely or jointly owned, managed, or otherwise controlled your firm.

☐ No ☐ Yes--List the following information.

Firm name	Type (i.e., producer, exporter, importer)	Country	Affiliation

PART II. PURCHASES

Contact information.--Please identify the responsible individual and the manner by which Commission staff may contact that individual regarding the confidential information submitted in this questionnaire.

Name	
Title	
Email	
Telephone	

II-1. **Purchases and imports.**--Report separately your firm's domestic purchases and imports of MAMMOs.

"Purchase" – Purchase from a U.S. entity such as a U.S. producer, a U.S. importer, or other U.S. firm.

"Import" – Purchase directly from a foreign supplier and your firm is the importer of record.

Item	2022	2023	2024	January-June 2025
	Quantity (in 1,000 pounds contained MAMMOs)			
Purchases of MAMMOs produced in— United States				
<i>of which,</i> were purchases from IGM Resins Inc. ¹				
South Korea				
Taiwan				
All other sources ²				
Sources unknown ³				
Total purchases	0	0	0	0
Imports of MAMMOs from— South Korea				
Taiwan				
All other sources ²				
Total imports ⁴	0	0	0	0

¹ Please report the quantity of U.S.-produced MAMMOs that were purchases specifically from IGM Resins Inc. for each year.

² Please identify these sources:

³ Please indicate the firm(s) from which you purchased this merchandise:

⁴ If your firm imported MAMMOs at any time since January 1, 2022, please contact Junie Joseph at Junie.Joseph@usitc.gov to complete and return a U.S. importers' questionnaire in this proceeding.

II-2. **Changes in purchasing patterns.**-- Please indicate whether the shares of your firm's purchases of MAMMOs steadily decreased, fluctuated but ended lower, were constant, fluctuated but ended higher, or steadily increased since January 1, 2022 from the listed sources.

Select one box per row.

[illegible]

II-3. Purchasing subject imports rather than domestic products.—

- (a) Since January 1, 2022, did your firm import and/or purchase imports of MAMMOs from South Korea and Taiwan instead of purchasing U.S.-produced MAMMOs? Respond for each subject source.

Source	Yes (also respond to parts (b) and (c))	No (If “No” for all sources, skip to next question)
South Korea	<input type="checkbox"/>	<input type="checkbox"/>
Taiwan	<input type="checkbox"/>	<input type="checkbox"/>

- (b) If you responded “Yes” to part (a), was the imported product priced lower than the domestic product?

Source	Yes	No
South Korea	<input type="checkbox"/>	<input type="checkbox"/>
Taiwan	<input type="checkbox"/>	<input type="checkbox"/>

- (c) If you responded “Yes” to part (a), was price a primary reason for importing and/or purchasing subject imports rather than domestic product?

Source	Yes	If Yes, estimate the quantity of imports purchased and/or imported instead of domestic product since January 1, 2022 (in 1,000 pounds contained MAMMOs)	No	If No, please indicate the reason your firm imported and/or purchased imports instead of domestic product
South Korea	<input type="checkbox"/>		<input type="checkbox"/>	
Taiwan	<input type="checkbox"/>		<input type="checkbox"/>	
If the quantity reported above exceeds the total quantity reported in II-1, please explain.				

II-4. **U.S. producers and import competition.**—

- (a) Since January 1, 2022, in connection with a sale or offer to sell MAMMOs to your firm, did U.S. producers reduce their prices of domestically produced MAMMOs in order to compete with lower-priced imports of MAMMOs from the subject sources? Respond for each subject source.

Source	Yes (also respond to question part (b))	No (If “No” for all sources, skip to next question)	Don’t know
South Korea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Taiwan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- (b) If your firm responded “yes” to any of the above sources, please provide an estimate of the reduction in U.S. producers’ prices and any additional explanations.

Source	Estimated reduction in U.S. prices (percent)	Additional explanation, including such information as timing (e.g., months/years), frequency of price reductions, or other market/competitive factors
South Korea	%	
Taiwan	%	

- II-5. **Source knowledge.**--Please indicate whether your firm has experience or is otherwise familiar with MAMMOs produced by the following sources.

United States	South Korea	Taiwan	Other sources	Other sources (specify)
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- II-6. **Supplier identification.**--Please list your firm's **FIVE** largest suppliers for MAMMOs since January 1, 2022, by quantity. Also, provide the share of the quantity of your firm's total purchases of MAMMOs that each of these suppliers accounted for in 2024.

No.	Supplier's name	City and state	Share of quantity of 2024 purchases
1			%
2			%
3			%
4			%
5			%

PART III. MARKET CHARACTERISTICS AND PURCHASING PRACTICES

- III-1. **Firm type.**--Which of the following best describes your firm as a purchaser of MAMMOs (check all that apply)?

End user (Ink Manufacturer)	End user (varnish and coating manufacturer)	End user (All other end user)	Distributor	Other	Describe other
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

If your firm is a distributor of MAMMOs, please answer questions III-2 and III-3.

- III-2. **Competition for sales.**--Does your firm compete for sales to customers with the manufacturers or importers from which your firm purchases MAMMOs?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-3. **Types of customers.**--What are the major types of customers to which your firm sells MAMMOs?

--

If your firm is an end user of MAMMOs, please answer questions III-4 and III-5.

III-4. **End use questions**

- (a) **Top End uses.**--List the top 3 products your firm makes using MAMMOs and estimate the percent of your total production cost that is accounted for by MAMMOs and by other inputs (such as labor, energy, and other raw materials).

Product(s) your firm produces	Share of total cost in each of the product(s) your firm produces accounted for by				Total (should sum to 100.0% across)
	MAMMOs		Other inputs		
	%	+	%	=	0.0 %
	%	+	%	=	0.0 %
	%	+	%	=	0.0 %

- (b) **End uses by individual MAMMOs.**--Describe the specific end users for each of the specified MAMMOs included in the scope that your firm purchases and/or imports.

CAS Number	Product description	Check if your firm purchases		Describe specific end use application(s) the specified MAMMO is used for
		Pure form	Blends containing	
109-16-0	Triethylene glycol dimethacrylate (TEGDMA)	<input type="checkbox"/>	<input type="checkbox"/>	
13048-33-4	1,6-hexanediol diacrylate (HDDA)	<input type="checkbox"/>	<input type="checkbox"/>	
42978-66-5	Tripropylene glycol diacrylate (TPGDA)	<input type="checkbox"/>	<input type="checkbox"/>	
3290-92-4	Trimethylol-propane trimethacrylate (TMPTMA)	<input type="checkbox"/>	<input type="checkbox"/>	
15625-89-5	Trimethylolpropane triacrylate (TMPTA)	<input type="checkbox"/>	<input type="checkbox"/>	
28961-43-5	Ethoxylated (3) trimethylol-propane triacrylate (EOTMPTA)	<input type="checkbox"/>	<input type="checkbox"/>	
57472-68-1	Dipropylene glycol diacrylate (DPGDA)	<input type="checkbox"/>	<input type="checkbox"/>	
55818-57-0	Bisphenol A-epichlorohydrin copolymer acrylate (EPOXY ACRYLATE)	<input type="checkbox"/>	<input type="checkbox"/>	

III-5. **Demand for end-use products.**

- (a) Has the demand for your firm's final products incorporating MAMMOs steadily increased, fluctuated but ended higher, been constant, fluctuated but ended lower, or steadily decreased since January 1, 2022?

Select one answer.

Steadily increased	Fluctuated up	Constant	Fluctuated down	Steadily decreased
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- (b) Has this had any effect on your firm's demand for MAMMOs?

No	Yes	Explain
<input type="checkbox"/>	<input type="checkbox"/>	

III-6. **Substitutes.**--Can other products be substituted for MAMMOs?

☐ No

☐ Yes--Please fill out the table.

Substitute	End use in which this substitute is used	Have changes in the price of this substitute affected the price for MAMMOs?		
		No	Yes	Explanation
1.		<input type="checkbox"/>	<input type="checkbox"/>	
2.		<input type="checkbox"/>	<input type="checkbox"/>	
3.		<input type="checkbox"/>	<input type="checkbox"/>	

- III-7. **Demand trends.**-- Has demand within the United States and outside of the United States (if known) for MAMMOs steadily increased, fluctuated but ended higher, not changed, fluctuated but ended lower, or steadily decreased since January 1, 2022? Explain any trends and describe the principal factors that have affected these changes in demand.

Select one box per row.

Market	Steadily increase	Fluctuate up	No change	Fluctuate down	Steadily decrease	Explanation and factors
Within the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Outside the United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- III-8. **Source preferences.**-- Do you or your customers ever prefer to order MAMMOs produced in a specific source or sources over others?

No	Yes	If yes, identify the sources and explain any preferences.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-9. **Importance of purchasing domestic product.**--Please fill out the table below, estimating the share of your firm's total 2024 purchases of MAMMOs that required MAMMOs produced in the United States.

	Estimated share of your firm's total 2024 purchases of MAMMOs
Purchases that did not require domestic product	%
Purchases that were required by law or regulation to be domestic product (e.g., government purchases under "Buy American" provisions)	%
Purchases that were not required by law or regulation, but were required by your customers to be domestic product	%
Purchases that were required to be domestic product for other reasons (explain: ____.)	%
Total (should sum to 100.0%)	0.0 %

- III-10. **Business cycles.**--Is the MAMMOs market subject to business cycles, either during the year or across years? If yes, describe.

No	Yes	If yes, please describe, including any changes since January 1, 2022.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-11. **Conditions of competition.**--Is the MAMMOs market subject to conditions of competition distinctive to MAMMOs other than the business cycles described in the previous question? If yes, describe.

No	Yes	If yes, please describe, including any changes since January 1, 2022.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-12. **Decisions based on producer and country-of-origin.**-- How often does your firm, and if known, do your customers, make purchasing decisions involving MAMMOs based on its producer or country of origin?

Item	Always	Usually	Sometimes	Never	If at least sometimes, explain noting the producers and/or countries.
Decision based on producer					
Your firm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Your customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Decision based on country of origin					
Your firm	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Your customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- III-13. **Availability of supply.**--Has the availability of MAMMOs in the U.S. market changed since January 1, 2022?

Availability in the U.S. market	No	Yes	Please explain, noting the countries and reasons for the changes.
U.S.-produced product	<input type="checkbox"/>	<input type="checkbox"/>	
Imports from South Korea and Taiwan	<input type="checkbox"/>	<input type="checkbox"/>	
Imports from all other sources	<input type="checkbox"/>	<input type="checkbox"/>	

III-14. Supply constraints.—

- (a) Has any firm refused, declined, or been unable to supply your firm with MAMMOs since January 1, 2022 (examples include placing customers on allocation or “controlled order entry,” declining to accept new customers or renewing existing customers, delivering less than the quantity promised, being unable to meet timely shipment commitments, etc.)?

No - skip to next question	Yes – respond to (b)
<input type="checkbox"/>	<input type="checkbox"/>

- (b) For each year that your firm faced supply constraints, identify the source(s) of the constraint (U.S. producers, foreign producers and/or importers, or all), and describe the constraints with the details requested below. For constraints that span multiple years, check all years they exist and describe how they vary over time, if at all.

Period	Yes - U.S. producer	Yes - foreign producer or importer	Describe, including the name of the supplier(s), country of origin of MAMMOs, as well as the timing, duration, and reason for the constraint.
2022	<input type="checkbox"/>	<input type="checkbox"/>	
2023	<input type="checkbox"/>	<input type="checkbox"/>	
2024	<input type="checkbox"/>	<input type="checkbox"/>	
January 1, 2025 - present	<input type="checkbox"/>	<input type="checkbox"/>	

- (c) Were there any specific supply constraints, listed in part b or otherwise, related to the petition that was filed on March 27, 2025?

No	Yes	If yes, please describe the constraints that were related to the petition being filed.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-15. **Economic shocks.** Was the MAMMOs market subject to economic shocks prior to 2022 that had effects carrying over into the period of investigation? If yes, please describe these impacts in terms of supply availability, raw materials, market demand and market price.

No	Yes	If yes, please describe, including any changes prior to January 1, 2022.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-16. **Availability of specific product types.**--Are certain types/purities/mixtures of MAMMOs only available from certain country sources?

No	Yes	If yes, please identify the countries and the types/purities/mixtures available only from those country sources.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-17. **Purchasing frequency.**--

- (a) How frequently does your firm make purchases of MAMMOs (check one)?

Daily	Weekly	Monthly	Quarterly	Annually	Other	If other, specify
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

- (b) Has this purchasing frequency changed since January 1, 2022?

No	Yes	If yes, please describe.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-18. **Raw material prices.**--

- (a) Is your firm familiar with the prices for raw materials used in the production of MAMMOs?

No – skip to III-18	Yes – respond to (b)
<input type="checkbox"/>	<input type="checkbox"/>

- (b) Has information on raw material prices affected your firm's negotiations or contracts to purchase MAMMOs since January 1, 2022?

No	Yes	Explain
<input type="checkbox"/>	<input type="checkbox"/>	

III-19. **Number of suppliers contacted.**--How many suppliers of MAMMOs does your firm generally contact before making a purchase? Between ____ and ____ firms

III-20. **Supplier negotiations.**--Do your firm's purchases of MAMMOs usually involve negotiations between your firm and suppliers of MAMMOs?

No	Yes	If yes, explain the factors your firm generally negotiates and note whether your firm quotes competing prices during negotiations.
<input type="checkbox"/>	<input type="checkbox"/>	

III-21. **Change in suppliers.**--Has your firm changed suppliers since January 1, 2022?

No	Yes	If yes, please list the supplier(s), whether the firm was added or dropped, and the reasons for the change.
<input type="checkbox"/>	<input type="checkbox"/>	

III-22. **New suppliers.**--Are you aware of any new suppliers, either foreign or domestic, that have entered the market since January 1, 2022?

No	Yes	If yes, please identify the firms.
<input type="checkbox"/>	<input type="checkbox"/>	

III-23. **Supplier certification.**--Do you require your suppliers to be or to become certified or qualified to sell MAMMOs to your firm?

If yes, provide the following information.

- The number of days required to qualify a new supplier.
- A general description of the certification or qualification process. Also, a brief description of the factors that you consider when qualifying a new supplier (e.g., quality of product, reliability of supplier, etc.).

No	Yes	Number of days	Certification/qualification process and factors considered
<input type="checkbox"/>	<input type="checkbox"/>		

- III-24. **Failure to certify.**--Since January 1, 2022, have any domestic or foreign producers failed in their attempts to certify or qualify their MAMMOs with your firm or have any producers lost their approved status?

No	Yes	If yes, please identify these producers, the countries where they are located, and the reasons why they failed or lost the certification/qualification.
<input type="checkbox"/>	<input type="checkbox"/>	

- III-25. **Major purchasing factors.**--Please list, in order of their importance, the main factors your firm considers in deciding from whom to purchase MAMMOs (examples include availability, extension of credit, contracts, price, quality, range of supplier's product line, traditional supplier, etc.).

Please respond with only a single factor per field in rows 1 through 3 of this table, and do not write in complete sentences nor otherwise describe or nuance your firm's response with additional text here. Excessive narrative responses may be ignored in Commission compilations on firms' responses to this question.

1.	
2.	
3.	
Please list any other factors that are very important in your purchase decisions: _____.	

- III-26. **Purchasing factors.**--Please rate the importance of the following factors in your firm's purchasing decisions for MAMMOs.

Factor	Very important	Somewhat important	Not important
Availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discounts offered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum quantity requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Payment terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product consistency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality meets industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality exceeds industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reliability of supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical support/service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U.S. transportation costs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- III-27. **Quality characteristics.**--What characteristics does your firm consider when evaluating the quality of MAMMOs?

--

III-28. **Minimum quality.**--How often does MAMMOs from the following sources meet minimum quality specifications for your uses or your customers' uses?

Source	Always	Usually	Sometimes	Rarely or never	Don't know
United States	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
South Korea	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Taiwan	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-29. **Frequency of decisions based on price.**--How often does your firm purchase the MAMMOs that is offered at the lowest price?

Always	Usually	Sometimes	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

III-30. **Price leaders.**--A price leader is defined as (1) one or more firms that initiate a price change, either upward or downward, that is followed by other firms, or (2) one or more firms that have a significant impact on prices. *A price leader is not necessarily the lowest-priced supplier.*

Please list the names of any firms you have considered price leaders in the MAMMOs market since January 1, 2022.

Firm(s)	Describe how the firm(s) exhibited price leadership

- III-31. **Role of new or modified tariffs.** Have tariff announcements and tariff changes associated with Presidential actions since January 1, 2025 (e.g., changes in country or “reciprocal” tariffs, changes in section 232 coverage or level of tariffs) impacted the MAMMOs market in the United States, including any effects on price, supply, demand, and/or raw material costs?

No	Yes	Don't know
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

If yes, please describe the impact on cost, price, supply, demand, and/or raw material costs, and include the timing of such impacts.

PART IV.—PRODUCT COMPARISONS

- IV-1. **Interchangeability of sources.**—How often are MAMMOs produced in the United States and in other sources interchangeable (i.e., can they physically be used in the same applications)?

Please indicate A, F, S, N, or O in the table below:

A = the products from a specified source-pair are *always* interchangeable

F = the products are *frequently* interchangeable

S = the products are *sometimes* interchangeable

N = the products are *never* interchangeable

O = *no familiarity* with products from a specified source-pair

Source-pair	South Korea	Taiwan	Other sources
United States			
South Korea			
Taiwan			
For any source-pair producing MAMMOs which are <i>sometimes</i> or <i>never</i> interchangeable, please identify the source-pair and explain the factors that limit or preclude the interchangeable use of MAMMOs produced in the sources:			

- IV-2. **Interchangeability of MAMMOs.**-- Please quantify and describe how interchangeable overall the different individual chemicals included in the definition of in-scope MAMMOs are with each other (indicating as appropriate specific product pairs in that discussion), and indicate what characteristics each MAMMO might impart that make them preferable or not for specific end users and/or end use applications, and to what extent such characteristics might be available from other in-scope MAMMOs and/or blends thereof.

Always	Usually	Sometimes	Never
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Use the following space to provide any additional description:

IV-3. **Factors other than price.**—How often are differences other than price (e.g., quality, availability, transportation network, product range, technical support, *etc.*) between MAMMOs produced in the United States and in other sources a significant factor in your firm's purchases of the products?

Please indicate A, F, S, N, or O in the table below:

A = such differences are *always* significant

F = such differences are *frequently* significant

S = such differences are *sometimes* significant

N = such differences are *never* significant

O = *no familiarity* with products from a specified source-pair

Source-pair	South Korea	Taiwan	Other sources
United States			
South Korea			
Taiwan			
<p>For any source-pair for which factors other than price are <i>always</i> or <i>frequently</i> a significant factor in your firm's purchases of MAMMOs, identify the source-pair and the relevant factors other than price and report the advantages or disadvantages imparted by such factors:</p>			

IV-4. **Factor source comparisons.**--For the factors listed below, please rate how MAMMOs produced in each source you identified in your response with which you are familiar, as reported in question II-5, compares with MAMMOs produced in each of the other sources with which you are familiar.

If you are unfamiliar with the product from a particular source, please leave the boxes for those source comparisons blank.

Factor	Product from <u>United States</u> compared to product from <u>South Korea</u>			Product from <u>United States</u> compared to product from <u>Taiwan</u>			Product from <u>South Korea</u> compared to product from <u>Taiwan</u>		
	Superior	Comparable	Inferior	Superior	Comparable	Inferior	Superior	Comparable	Inferior
Availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discounts offered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum quantity requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Payment terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price ¹	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product consistency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality meets industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality exceeds industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reliability of supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical support/service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U.S. transportation costs ¹	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

¹ A rating of "superior" on price and U.S. transportation costs indicates that the first source generally has lower prices/U.S. transportation costs than the second source.

IV-4. Continued.

If you are unfamiliar with the product from a particular source, please leave the boxes for those source comparisons blank.

Factor	Product from <u>United States</u> compared to product from <u>Nonsubject sources</u>			Product from <u>South Korea</u> compared to product from <u>Nonsubject</u> <u>sources</u>			Product from <u>Taiwan</u> compared to product from <u>Nonsubject sources</u>		
	Superior	Comparable	Inferior	Superior	Comparable	Inferior	Superior	Comparable	Inferior
Availability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Delivery time	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Discounts offered	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Minimum quantity requirements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Packaging	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Payment terms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Price ¹	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product consistency	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Product range	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality meets industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Quality exceeds industry standards	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reliability of supply	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Technical support/service	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
U.S. transportation costs ¹	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

¹ A rating of 'superior' on price and U.S. transportation costs indicates that the first source generally has lower prices/U.S. transportation costs than the second source.

PART V.—ADDITIONAL INFORMATION

- V-1. **Other explanations.**--If your firm would like to further explain a response to any question for which a narrative response box was not provided, please note the question number and the explanation in the space provided below.

--

HOW TO FILE YOUR QUESTIONNAIRE RESPONSE

This questionnaire is available as a “fillable” form in MS Word format on the Commission’s website at:

https://usitc.gov/reports/active_import_injury_questionnaires.

Please do not attempt to modify the format or permissions of the questionnaire document. Please submit the completed questionnaire using one of the methods noted below. If your firm is unable to complete the MS Word questionnaire or cannot use one of the electronic methods of submission, please contact the Commission for further instructions.

- **Upload via Commission’s secure submission portal.**— The questionnaire must be uploaded in two formats: (1) a Microsoft Word document; and (2) a PDF copy of the complete questionnaire with a signature on the first page. Please include any attachments at the end of the PDF (e.g., APO certification, additional comments, etc.).

Web address: <https://usitc.gov/qportal> **Pin:** MAMMO **Phase:** FINAL

- **E-mail.**— *E-mail the MS Word questionnaire to steven.distefano@usitc.gov; include a PDF copy of the complete questionnaire with a signature on the first page. Submitters are strongly encouraged to encrypt nonpublic documents that are electronically transmitted to the Commission to protect your sensitive information from unauthorized disclosure. The USITC secure submission portal and the Electronic Document Information System (EDIS) use Federal Information Processing Standards (FIPS) 140-2 cryptographic algorithms to encrypt data in transit. Submitting your nonpublic documents by a means that does not use these encryption algorithms (such as by email) may subject your firm’s nonpublic information to unauthorized disclosure during transmission. If you choose a non-encrypted method of electronic transmission, the Commission warns you that the risk of such possible unauthorized disclosure is assumed by you and not by the Commission.*

If your firm does not purchase this product, please fill out page 1, print, sign, and submit a scanned PDF copy via the Commission’s secure submission portal or email.

Parties to this proceeding.— If your firm is a party to this proceeding, it is required to serve a copy of the completed questionnaire on parties to the proceeding that are subject to administrative protective order (see 19 CFR § 207.7). A list of such parties may be obtained from the Commission’s Secretary (202-205-1802). A certificate of service must accompany the completed questionnaire you submit (see 19 CFR § 207.7). Service of the questionnaire must be made in paper form.