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## UNITED STATES ACTIVE PHARMACEUTICAL INGREDIENT INDUSTRIAL BASE ASSESSMENT



### SCOPE OF ASSESSMENT

The U.S. Department of Commerce, Bureau of Industry and Security (BIS), Office of Strategic Industries and Economic Security (SIES), in partnership with the Department of Health and Human Services' Office of Industrial Base Management and Supply Chain (IBMSC), is conducting a survey of U.S. small-molecule active pharmaceutical ingredient (API) manufacturers, distributors and their suppliers of raw or starting materials; and finished dose form manufacturers and their suppliers. The survey results will be incorporated into a comprehensive report that presents the current state of the U.S. API industrial base, including existing supply chain vulnerabilities, production capacities, emergency response capabilities, and other trends from the survey data analyses. Additionally, the report will give recommendations to help improve the resiliency of the U.S. API supply chain in the face of future public health emergencies.

# RESPONSE TO THIS SURVEY IS REQUIRED BY LAW

A response to this survey is required by law (50 U.S.C. § 4555). Failure to respond can result in a maximum fine of \$10,000, imprisonment of up to one year, or both. Information furnished herewith is deemed confidential and will not be published or disclosed except in accordance with Section 705 of the Defense Production Act of 1950, as amended (50 U.S.C. § 4555). Section 705 prohibits the publication or disclosure of this information unless the President determines that its withholding is contrary to the national defense. Information will not be shared with any non-government entity, other than in aggregate form. The information will be protected pursuant to the appropriate exemptions from disclosure under the Freedom of Information Act (FOIA), should it be the subject of a FOIA request.

Notwithstanding any other provision of law, no person is required to respond to nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a currently valid OMB Control Number.

## **BURDEN ESTIMATE AND REQUEST FOR COMMENT**

Public reporting burden for this collection of information is estimated to average 20 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information to BIS Information Collection Officer, Room 6883, Bureau of Industry and Security, U.S. Department of Commerce, Washington, D.C. 20230, and to the Office of Management and Budget, Paperwork Reduction Project (OMB Control No. 0694-0119), Washington, D.C. 20503.

#### BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

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Your organization is required to complete this survey on the U.S. Active Pharmaceutical Ingredient (API) industrial base.  Your organization has been identified as a manufacturer, distributor, supplier, or service provider of a product or input required in the manufacturing of small-molecule APIs listed in section 3a. 'API Capabilities' of this survey.  A. You must complete the survey using the Microsoft Excel-based template which can be downloaded from: https://www.bis.doc.gov/index.php/api-survey  For your convenience, a PDF version of the survey and required drop-down content is available at https://www.bis.doc.gov/index.php/a survey to aid internal data collection. DO NOT SUBMIT the PDF version of the survey as your response to BIS. Should this occur, your organization will be required to resubmit the survey in Excel format.  Respond to every question. Surveys that are incomplete will be returned for completion. Use the comment boxes at the bottom of each section to provide any supplemental information. Make sure to record a complete answer in the cell provided, even if the cell does not appear to expand to fit all the information. Refer to the "Definitions" section while completing the survey.  Fill out the survey section in sequential order and AVOID SKIPPING SECTIONS. Some information will auto-generate based on respon in previous sections.
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DO NOT COPY AND PASTE RESPONSES WITHIN THIS SURVEY. Inputs to the survey are to be made via keyboard or drop-down menus. The use of copy/paste can corrupt the file. If your submittal is corrupted due to copy/pasted responses your organization will be required to download an additional survey and resubmit.
C. Do not disclose any <u>classified</u> information in this survey form.
Submit your completed survey via email to APIsurvey@bis.doc.gov
D. For additional data protection, you may password-protect your survey prior to submission. Please send the password in a separate e-m to APIsurvey@bis.doc.gov.
Questions related to the survey content should be directed to BIS survey support staff at APIsurvey@bis.doc.gov
E. Email is the preferred method of contact.
For questions related to the overall scope of the industrial base survey and assessment, contact APIsurvey@bis.doc.gov or:
Erika Maynard Acting Director, Defense Industrial Base Division F. BIS/Export Administration/Office of Strategic Industries and Economic Security 1401 Constitution Avenue, NW, Room 3876 Washington, DC 20230
DO NOT submit completed surveys to Ms. Maynard
BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

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Term	Definition
Additive Manufacturing Process	Process that builds an object by sequentially building 2-dimensional (2D) layers and joining each to the layer below, allowing manufacturers to rapidly produce alternative designs without the need for retooling and to create complex devices built as a single piece.
Active Pharmaceutical Ingredients (APIs)	Any substance that is intended for incorporation into a finished drug product and is intended to furnish pharmacological activity or other direct effect in the diagnosis, ourse miligation, treatment, or prevention of disease, or to affect the structure or any function of the body. Active pharmacoutical ingredient does not include intermediates used in the synthesis of the substance.
Authorizing Official	An executive officer of the organization or business unit or another individual who has the authority to execute this survey on behalf of the organization.
Batch Manufacturing	A method of manufacturing where the products are made as specified groups or amounts, within a time frame. A batch can go through a series of steps in a large manufacturing process to make the final desired product.
Business Continuity Plan	A document that consists of the critical information an organization needs to prevent and recover from an unplanned interruption in business operations.
Capital Expenditures (CapEx)	Investments made by an organization in buildings, equipment, property, and systems where the expense is depreciated. This does not include expenditures for consumable materials, other operating expenses, and salaries associated with normal business operations.
Continuous Manufacturing	An advanced manufacturing betrandong that sends materials produced during each process step directly and continuously to the next step for further processing, yet hereby typic materials are continuously to production and stamment, and processing doubt materials are continuously sentenced.  A native processing of the production of the production of the production and stamment, and processing doubt materials are continuously removed.  A native processing of the production of th
Chemical Abstracts Service (CAS) Number	A Unitige numerical institute assigned by the Uniform an estatus service (LAS) to every cremical substance described in the open scientific florature.  Find CAS registry numbers here: <a href="https://commonchemistry.cas.org/">https://commonchemistry.cas.org/</a>
Customer	An entity to which an organization directly delivers he product or service that it produces. A customer may be another organization or another facility owned by the same parent organization. The customer may be the end used for the item but often can be the immediate link in the supply chain, adding additional value before transferring the item to yet another customer.
Distributor	An independent selling agent who has a contract to sell the products of a manufacturer.
Drug Product	An active ingredient in dosage form that has been approved or otherwise may be lawfully marketed under the Federal Food, Drug, and Cosmetic Act for distribution in the United States.
End to End Manufacturing	A production process that takes a design from concept to creation without the assistance of a third party.
Excipient	Any inactive ingredients that are added intentionally to therapeutic or diagnostic products, but they are not intended to exert therapeutic effects at the intended dosage, although they may act to improve product delivery.
Exports	Shipments to destinations outside the United States.
External Entity	A company (for profit or non-profit), institution (academic, professional, or commercial), or government agency that is not within your organization.
Facility	A building or the minimum complex of buildings or parts of buildings in which an organization operates to serve a particular function, producing revenue and incurring costs for the company. A building may produce an item of language or intergole procept or may perform a service. It may encourage as floor or group of floors which a building, a single building, or a group of buildings or structures. A feeling could include a group of related facilities at which organization employees work, together constituting a profit-and-loss center for the company, and it may be detified by unique both birthwest Numberling Sylvening (OUNS) juminet.
Fermentation	The use of bacteria, yeast, or fungi to produce a specific active ingredient or intermediate, which is then extracted and purified to create the final pharmaceutical product.
Final or Finished Dose Form (FDF)	A tablet, capsule, solution, etc., that contains an active drug ingredient generally, but not necessarily, in association with inactive ingredients. The term also includes a finished dosage form that does not contain an active ingredient but is intended to be used as a placebo.
Fine Chemical	Fine chemicals are complex, single, pure chemical substances typically produced by traditional organic synthesis in multipurpose plants according to exacting specifications. They are used as starting materials for specially chemicals, mainly pharmaceuticals and agrochemicals.
Full-Time Equivalent (FTE) Employees	Employees who work for 40 hours in a normal work week. Convert part-time employees into "full-time equivalents" by taking their work hours as a fraction of 40 hours.
Good Distribution Practice (GDP)	Part of quality assurance that ensures the quality of a pharmaceutical product is maintained by means of adequate control of the numerous activities which occur throughout the distribution process.
Good Laboratory Practice (GLP)	A managerial quality control system covering the organizational process and the conditions under which non-clinical health and environmental studies are planned, performed, monitored, recorded, reported and retained (or archived).
Good Manufacturing Practice (GMP)	Also referred to as 'current Good Manufacturing Practices' or 'cGMP'; a system of regulations enforced by the U.S. Food and Drug Administration, that assure proper design, monitoring, and control of manufacturing processes and facilities. Achievence for the GMP regulations assures the betienly, strengt, includity, and purity of entry of entry products by requiring that manufactures of medications adequately materials, establishing robust operating procedures, detecting and investigating product quality deviations, and maintaining reliable testing listoratories.
Headquarters Intermediate	A facility that serves as an organization's hub of operations with all branches or divisions reporting to it.  A material produced during steps of the synthesis of a drug substance that undergoes further molecular change before it becomes a drug substance.
International Union of Pure and Applied Chemistry (IUPAC) Name	A systematic method of naming organic chemical compounds as recommended by the International Union of Pure and Applied Chemistry.
Inventory	More information here: <a href="https://lipac.org/shst-we-do/nomendsture/brief-guides/">https://lipac.org/shst-we-do/nomendsture/brief-guides/</a> The goods or materials an organization holds for its own use or for the ultimate goal of sale.
Key Starting Material (KSM)	A raw material, an intermediate, or an active pharmaceutical ingredient that is used in the production of an active pharmaceutical ingredient and that is incorporated as a significant structural fragment into the structure of the active pharmaceutical ingredient.
Lead Time	The amount of sime from the point that an entity (vendor, producer/manufacturer, warehouse, distributor, supplier, and retailer) processes an order, manufactures a product, or prepares an order to the point it gets delivered to the customer
Logistics Management Information System	A system of records and reports used to aggregate, analyze, validate and display data from all levels of the logistics system that can be used to make logistics decisions and manage the supply chain.
Manufacturing	Includes all operations of receipt of materials, production, packaging, repackaging, labeling, relabeling, quality control, release, storage, and
Non-U.S. Facility	distribution of APIs.  A facility that is physically located outside of the United States.
On Demand Manufacturing	A manufacturing system in which products are only manufactured when needed and in quantities required.
Organization	A company, firm, laboratory, or other entity that owns or controls the facility capable of manufacturing or distributing influenza vaccine
Partnership	products.  Any type of service or collaboration agreement between two parties under which proprietary information can be shared in either tangible or non-tangible forms.
·	non-tangible forms.  The process of transforming inputs (raw materials, semi-finished goods, subassemblies, fill finish) into goods or services.
Production  Point of Care Manufacturing	The process of transforming inputs (raw materials, semi-finished goods, subassembles, fill finish) into goods or services.  The production of therapies in hospitals, carried out when there is no time for storing the medicine, which is delivered to the patient with no delays.
Research and Development	detays  Basic and applied research in the engineering sciences, as well as design and development of prototype products and processes. Efforts that an organization conducts towards innovatina, introducing and/or improving products and processes.
Sales	inst an organization conducts towards innovating, introducing analor improving products and processes.  All reported and unreported sales of subject products, including sales to end-users, producers, financial entities, intermediaries, traders,
Single Use Technology	distributors, et al.  A manufacturing process designed for use for the duration of the production process of a single batch of therapeutics and then discarded.
	A small molecule API is a low molecular weight organic compound that may regulate a biological process, bind specific biological
Small Molecule Active Pharmaceutical Ingredient (API)  Sole Source	macromolecules, and act as an effector, usually derived through chemical synthesis.  A supplier that is the only source for the supply of parts, components, or services. No alternative U.S. or non-U.S. based suppliers exist other
Solution	than the current supplier.  A liquid preparations containing one or more drug substances molecularly dispersed in a suitable solvent or a mixture of mutually miscible
Solution	solvents.  An entity from which your organization obtains injuds, which may be goods or services. A supplier may be another organization with which your brea controllactual relationship, or it may be another facility owned by the same parent organization.
Supply Chain Disruption  Supply Chain Risk Management (SCRM) Program	Any event causing a disruption or delay in production, sales, or distribution of products.  A coordinated effort within an organization to help identify, monitor, detect and milispate threats to the supply chain.
Supply Chain Risk Management (SCRM) Program  Specialty Chemical	A coordinated effort within an organization to help identify, monitor, detect and mitigate threats to the supply chain.  Single-chemical entitles or formulations whose composition influences the performance and processing of the end product.
	Single-chemical ensules or formulations whose composition intuences the performance and processing or the end product.  The creation of new genomes, biological pathways, or organisms not found in nature or the redesign of existing genomes, biological
Synthetic Biology Manufacturing	The United States" or "U.S." includes the 50 states, the District of Columbia, Puerto Rico, Guarm, America Samoa, the U.S. Virgin Islands,
United States	and the Northern Mariana Islands.
U.S. Active Pharmaceutical Ingredients Industry	Industry comprised of organizations that engage in researching, developing, menufacturing, and/or distributing Active Pharmaceutical Ingredients incorporated into finished drug products available within the United States.  BUSINESS CONFIDENTIAL - Per Section 798(d) of the Defense Production Act
	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

Nam	ne		Title	Phone Number	Email Ad	ldress	State	
Provide the following information for you	ur organization.							
1. Organization Name								
2. Street Address								
3. City								
4. State						Definition: Organization		
5. ZIP Code (5-digit)								
<ol> <li>Country</li> <li>Ultimate Parent Organization Name</li> </ol>								
8. Ultimate Parent Organization Count								
9. Is your ultimate parent organization					If Public, Stock Ticker:			-
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7. Research & Development								
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Describe your organization's activities.  List all entities in descending order, incles Entity or Indivolved.  Entity or Indivolved.  3. 4. 5. 6. 7. 8. 99. 10. Record the total number of joint venture stritical to your organization's API manufacture.  Joint Venture Name	ies related to small-molecule active publication individuals and governments, vidual Name  es that your organization has initiated facturing and/or distribution activities	which currently hole stake %  d since 2019 (includes.	old 5% or more of you	Entity Type  Entity Type  An-U.S. activities) in the box on the right	t, then identify the 5 joint vent	State  State  Urres that are most	Country Prod Deve Impr Mark Impr R&D Red Risk Shar	ess to Government Contracts to Intellectual Properties to Suppliers or Reduced Times and Customer Base action of New Technologies and Improvements alop New Capabilities are (Required) and Access to Foreign acts (Voluntary) and Access/Coordination and Costs Sharing and Improved Technology of the Cost of th
Describe your organization's activities.  List all entities in descending order, incles Entity or Indivolved.  Entity or Indivolved.  2.  3.  4.  5.  6.  7.  8.  9.  10.  Record the total number of joint venture critical to your organization's API manuformation.  Joint Venture Name  1.	ies related to small-molecule active publication individuals and governments, vidual Name  es that your organization has initiated facturing and/or distribution activities	which currently hole stake %  d since 2019 (includes.	old 5% or more of you	Entity Type  Entity Type  An-U.S. activities) in the box on the right	t, then identify the 5 joint vent	State  State  Urres that are most	Country Prod Deve Impr Mark Impr R&D Red Risk Shar	ess to Government Contress to Intellectual Properties to Suppliers or Reduced Times and Customer Base action of New Technologies and Improvements alop New Capabilities are (Required) are Access to Foreign acts (Voluntary) are Access/Coordination are Costs Sharing and Improved Technology are acted.
Describe your organization's activities.  List all entities in descending order, incles the Entity or Indivolve 1.  2.  3.  4.  5.  6.  7.  8.  9.  10.  Record the total number of joint venture stritical to your organization's API manufactoritical to your organization's activities.	ies related to small-molecule active publication individuals and governments, vidual Name  es that your organization has initiated facturing and/or distribution activities	which currently hole stake %  d since 2019 (includes.	old 5% or more of you	Entity Type  Entity Type  An-U.S. activities) in the box on the right	t, then identify the 5 joint vent	State  State  Urres that are most	Country Prod Deve Impr Mark Impr R&D Red Risk Shar	ess to Government Contress to Intellectual Properties to Suppliers or Reduced Times and Customer Base action of New Technologies and Improvements alop New Capabilities are (Required) are Access to Foreign acts (Voluntary) are Access/Coordination are Costs Sharing and Improved Technology are acted.
Describe your organization's activities.  List all entities in descending order, incles the Entity or Indivolve 1.  2.  3.  4.  5.  6.  7.  8.  9.  10.  Record the total number of joint venture stritical to your organization's API manufactoritical to your organization's activities and the property of the	ies related to small-molecule active publication individuals and governments, vidual Name  es that your organization has initiated facturing and/or distribution activities	which currently hole stake %  d since 2019 (includes.	old 5% or more of you	Entity Type  Entity Type  An-U.S. activities) in the box on the right	t, then identify the 5 joint vent	State  State  Urres that are most	Country Prod Deve Impr Mark Impr R&D Red Risk Shar	ess to Government Contracts to Intellectual Properties to Suppliers or Reduced Times and Customer Base action of New Technologies and Improvements alop New Capabilities are (Required) and Access to Foreign acts (Voluntary) and Access/Coordination and Costs Sharing and Improved Technology of the Cost of th

try (4) the current status of one	rations; (5) year of facility of accordance with current go oducts listed in Section 3.	closure or opening if ap ood manufacturing prac	plicable; (6) the primari stices (cGMP); (11) yea	active pharmaceutical ingr	products listed in Section 3a and edient(API)-related business ope ction; (12) and type of the most re	rations performed at the facilit	Operating Idle/Standby Planned/Expected Recently Closed	x in the right-hand corner. Then list performed at the facility; (8) the prin	he name of each facility and pr nary manufacturing model perfo	ovide the following information rmed at the facility; (9) the cap	: (1) city; (2) state if lo acity utilization rate o	f the facility in 2023;	
Definition: Key Starting Mater	ials (KSM)	(1)	Location (2)	(3)	(4)	(5)	Oper	ations (7)	(8)	(9)	(10)	Quality Assur (11)	rance (12)
Facility Nam	е	City	State (if U.S.)	Country	Operating Status	Year of Facility Closure or Expected Opening	r Primary Operation	Additional Operation	Manufacturing Model	2023 Capacity Utilization	cGMP Certified?	Year of Recent FDA Inspection	Type of FDA Inspection
												+	
												-	
			+ +						+	+			
											ļ		
			-									-	
												+	
								_					
												-	
									1				
r the following questions regarders the following questions regarders by the following the following the following questions are the following questions are the following questions regarders are the following questions are the f			nd/or decisions to close	API-related facilities as rep	orted in Part A.		71	//	71				
Briefly describe your organiza			olicable.						/		_		
Comments:		,					/_		/		_		<del>\</del>
					BUS	INESS CONFIDENTIAL - Per	Section 705(d) of the Defense Production	n Act					
			ADLD	istribution		¬ //							
							E			17			
			API M	anufacturing	g/Production			Batch Manufacturir	ng	Yes			For-cause insp
			Fill Fir	nish Services	s			Continuous Manufa	acturina	No			Pre-approval i
				Distribution	-			Both Batch and Co		Certifica	ation Pend		Surveillance in
											anonn chi	unig	oui veillarice II
				/lanufacturin			(	Other (Specify Her	e)	N/A			
			Startir	ng Materials	Distribution		_						
			Startin	a Materials	Manufacturing								
				ig Materials irch & Devel		'							

API Sole Global Source FDF Existing Non-U.S. Competitors only OMB Control No. 0694-Both API and FDF Existing U.S. Competitors only 3a. Active Pharmaceutical Ingredients Product Capabilities Existing U.S. and Non-U.S. Competitors ldentify the active pharmaceutical ingredient(s) (API) or finished dose form(s) (FDF) contained in the list of API(s) that your organization manufactured, distributed/sold in the U.S., had an idle capability to manufacture, or was in development in 2023 and provide the following information: (1) the capabilities of your U.S. operations; (2) the type of product; (3) your organization's assessment of the availability and location of alternative providers of that that provide the same product or an essentially equivalent product; (4) the primary country where your product is manufactured; and (5) the facility where the product was housed immediately prior to shipping to the customer (1) Active Pharmaceutical Ingredients (including Salt Form) **Primary Manufacturing** Assessment of Alternative Capability Product Type **Primary Facility** Country Providers Acetaminophen Acyclovir Manufacture Adenosine Distribute Idle-Capability Alteplase In Development List Generated from Amiodarone Section 2 Ampicillin Apixaban Argatroban Aspirin Atropine Avibactam Azithromycin Bictegravir Bictegravir-Emtricitabine-Tenofovir Alafenamide Calcium Cefepime Ceftazidime-Avibactam Ceftazidime Ceftriaxone Chlorhexidine Dantrolene Daptomycin Dexamethasone Diphenhydramine Dobutamine Doxycycline Emtricitabine Etomidate Fentanyl Furosemide Haloperidol Hydralazine Hydromorphone Ibuprofen Ipratropium Bromide Isoflurane Labetalol Lactulose Levetiracetam Levofloxacin Levothyroxine Lidocaine Lidocaine-Epinephrine Linezolid Lorazepam Magnesium Sulfate Meropenem Methylprednisolone Metoprolol Metronidazole Micafungin Morphine Naloxone Nitroglycerin Norepinephrine Ondansetron Pantoprazole Penicillin G Phenylephrine Phenytoin Piperacillin Piperacillin-Tazobactam Potassium Chloride Propofol Rocuronium Sodium Bicarbonate (5% injection) Sodium Phosphate Succinylcholine Sulfamethoxazole Tacrolimus Tazobactam Tenofovir Alafenamide Thiamine Ticagrelor Trimethoprim Trimethoprim-Sulfamethoxazole Valganciclovir Vancomycin Vasopressin Vitamin K Voriconazole Comments: BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

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Previous Page									Next Pag
finsting does not manufacture AF	Die massed to Costion 4			3b. API Manufa	acturing Capacity				
f your organization does not manufacture AF	ris, proceed to Section 4.								
Provide the following information for each API the percent of 2027 output to be sold in the U.S.; (7)	at your organization manufacturers (	1) 2023 Total Output in kilograms (kg) or Liters	(L); (2) the percent of 2023 Output So	old in the U.S.; (3) 2023 average revenu	ue per unit; (4) 2023 capacity utilizati	on rate of your U.S. operations; (5) 2027 proj	ected output in kg or L; (6) estimated		
percent of 2027 output to be sold in the 0.5., (7)									
Products (auto-generated from Section 3a)	(1)	(2)	(3)	(4)	(5)	(6) Estimated Percent of 2027 Output T Be Sold in the U.S.	(7)	(8)	(9)
(auto-generated from Section 3a)	2023 Total Output (kg or L)	Percent of 2023 Output Sold in the U.S.	2023 Average Unit Revenue (U.S. Dollars)	2023 U.S. Capacity Utilization (%)	2027 Projected Output (kg or L	Be Sold in the U.S.	Primary Capacity Constraint	Primary Manufacturing Facility	Manufacturing Model
			(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						
								A	
					Capital Investm	nent Costs		/1	,
					Domestic Com	petition		/	
					FDA Regulation	ns		/	
					Foreign Compe	stition	(		Batch Manufacturing
					Innut Costs	etition _			Continuous Manufacturi
					Input Costs	_	List Consusted from	Continu 2	Both Batch and Continu
					Labor Costs		List Generated from	Section 2	
					Lack of Deman	id			Other (Specify here)
					Low Product Vo	olume			
					Other (Specify	here)			
Comments:									
			В	USINESS CONFIDENTIAL - Per Secti	on 705(d) of the Defense Producti	on Act			

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3c. API Inputs

If your organization does not manufacture APIs, proceed to Section 4.

For each manufactured API product listed in the first column, provide that product's five most critical inputs. List the inputs in descending order, starting with the most critical. For each input, provide the following: input name, input type, the Chemical Abstracts Service (CAS) number, and the International Union of Pure and Applied Chemistry (IUPAC) name if known.

<u>Definition: International Union of Pure and Applied Chemistry (IUPAC) Name</u>

Definition: Chemical Abstracts Service (CAS) Number

Products (auto-generated from Section 3a)	Input #	Input Name	Input Type	CAS Number	IUPAC Name (if known)
	1.				
	2.				
	3.		1		
	4.				
	5.		<del>                                     </del>		
	1.				
	2. 3.	F	xcipient		
	4.		ine Chemical		
	5.		urchased		
	1.		ntermediate		
	2.		olution		
	3.				
	4.	90	pecialty Chemical		
	5.		Other (Specify here)		
	1.				
	2.				
	3.				
	4.				
	5.				
	1.				
	2.				
1	3.				
71	4.				
	5.				
Comments:		PHONESO OCCUPATION	Al		
		BUSINESS CONFIDENTI	AL - Per Section 705(d) of the Defense Proc	duction Act	

Survey will allow for up to 50 possible products

Indicate whether your organization manufactures key starting materials (KSM) in the box on the right. If no, proceed to Section 5.

Identify the KSMs that your organization your organization your organization manufactured, distributed/sold in the U.S., had an idle capability to manufacture, or was in development in 2023 and provide the following information: (1) the capability and location of alternative providers of that that provide the same product or an essentially equivalent product; (3) the primary country where the product was manufactured; (4) the facility where the product was housed immediately prior to shipping to the customer; (5) the primary country; ONLY COMPLETE COLUMNS 7-11 FOR PRODUCTS THAT YOUR ORGANIZATION MANUFACTURES; (7) your organization's 2023 total output in kilograms (kg) or Liters (L); (8) the percentage of your 2023 output sold in the U.S.; and (11) your organization's 2027 projected output in kg or L; (10) the estimated percentage of your organization's primary facility that manufactures the product.

ck here to write in Oth	her Key Starting Materials					Input Int	ormation		COMPLETE	FOR MANUFACTURED PRODUCTS	ONLY	
	W. O. C. M.	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
	Key Starting Materials						Share of Input Costs				Estimated Percent of 2027	
CAS Number	Chemical Name	Capability	Assessment of Alternative Providers	Primary Manufacturing Country	Primary Facility	Primary Country of Sourced Inputs	Sourced from Primary Country	2023 Total Output (kg or L)	Percent of 2023 Output Sold in the U.S.	2027 Projected Output (kg or L)	Output To Be Sold in the U.S.	Primary Manufacturing Facility
50-81-7	Ascorbic Acid		A									
53-06-5	Cortisone		<b>^</b>								>	7
56-40-6	Glycine											
56-81-5 57-13-6	Glycerol Urea											
58-27-5	Menadione											
59-88-1	Phenylhydrazine HCI											
60-12-8	2-Phenylethanol	Manufacture	80	le Global Source	l							
60-18-4	Tyrosine	Distribute						Lista	an a rate of			
60-34-4	Methylhydrazine	In Developmer	nt EXI	sting Non-U.S. Co	mpetitors only			List ge	enerated			
60-70-8	Veratramine Aniline	Idle Capability	" Exi	sting U.S. Compe	titors only			from S	Section 2			
62-53-3 63-42-3	Lactose	Tule Capability	Fxi	sting U.S. and No	n-U.S. Competitor	s						
63-68-3	L-Methionine		LA		S.S. Sompontor	_						
64-18-6	Formic Acid											
64-19-7	Acetic Acid											
65-45-2	Salicylamide											
67-56-1	Methanol											
69-72-7 70-78-0	Salicylic Acid 3-lodo-L-tyrosine											
73-24-5	Adenine											
73-40-5	Guanine											
74-89-5	Methylamine											
75-05-8	Acetonitrile											
75-07-0	Acetaldehyde											
75-16-1 75-19-4	Methylmagnesium Bromide Chiral Cyclopropane											
75-19-4	Isopropylamine											
75-36-5	Acetyl Chloride											
75-50-3	Trimethylamine											
75-64-9	Tert-Butylamine											
75-75-2	Methanesulfonic Acid											
75-89-8 76-41-5	2,2,2-Trifluoroethanol Oxymorphone											
76-41-5	Oxycodone											
77-78-1	Dimethyl Sulfate											
78-95-5	Chloroacetone											
79-03-8	Propionyl Chloride											
79-04-9	Chloroacetyl Chloride											
87-62-7	2,6-Dimethylaniline											
88-69-7 90-02-8	2-Isopropylphenol Salicylaldehyde											
91-01-0	Diphenylmethanol											
91-57-6	2-Methylnaphthalene											
95-02-3	4-Amino-5-Aminomethyl-2-Methylpyrimidine											
95-73-8	2,4-Dichlorotoluene											
95-92-1 97-93-8	Acetaminophen Triethylaluminium											
97-93-8	Nitrobenzene											
99-40-1	2-Chloro-3',4'-Dihydroxyacetophenone											
99-93-4	4'-Hydroxyacetophenone											
100-00-5	1-Chloro-4-Nitrobenzene											
100-01-6	4-Nitroaniline											
100-06-1 100-07-2	4'-Methoxyacetophenone 4-Methoxybenzoyl Chloride											
100-07-2	P-Anisic Acid											
100-46-9	Benzylamine											
101-41-7	Methyl Phenylacetate											
103-67-3	N-Methylbenzylamine											
103-63-9	Phenethyl Bromide											
Write-In Here	Other Starting Material 1 Write-In	Here										
	l <b>\</b>											

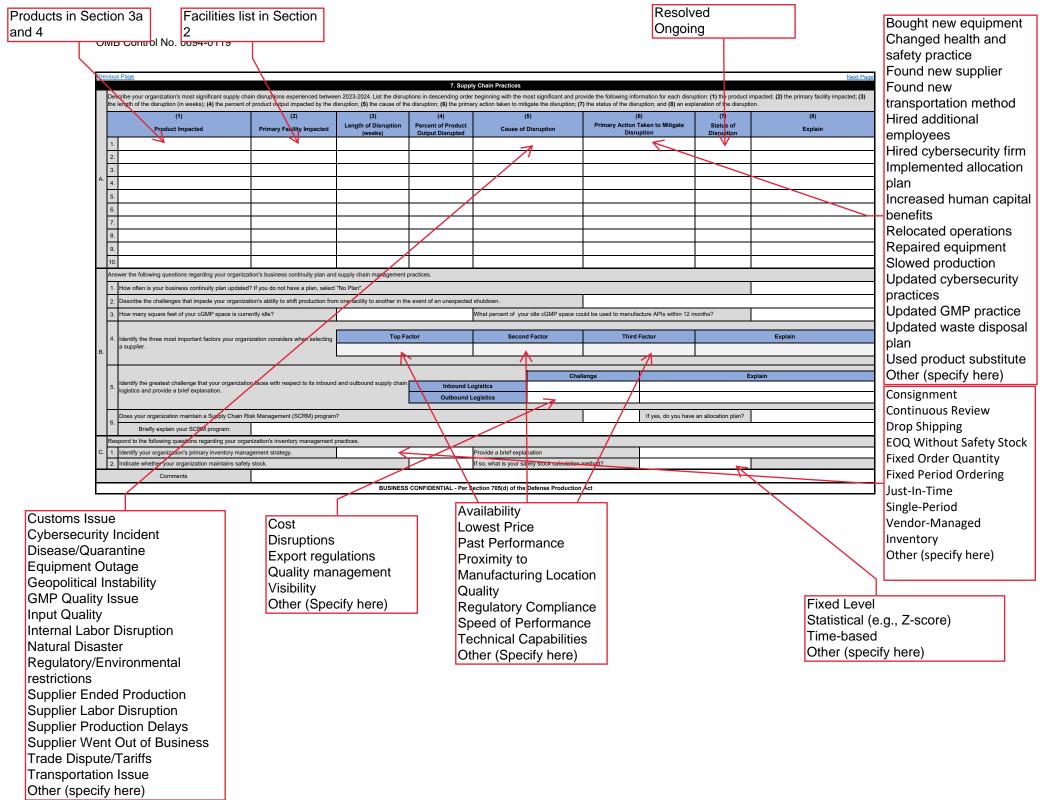
Survey will allow for up to 25 write-in chemicals

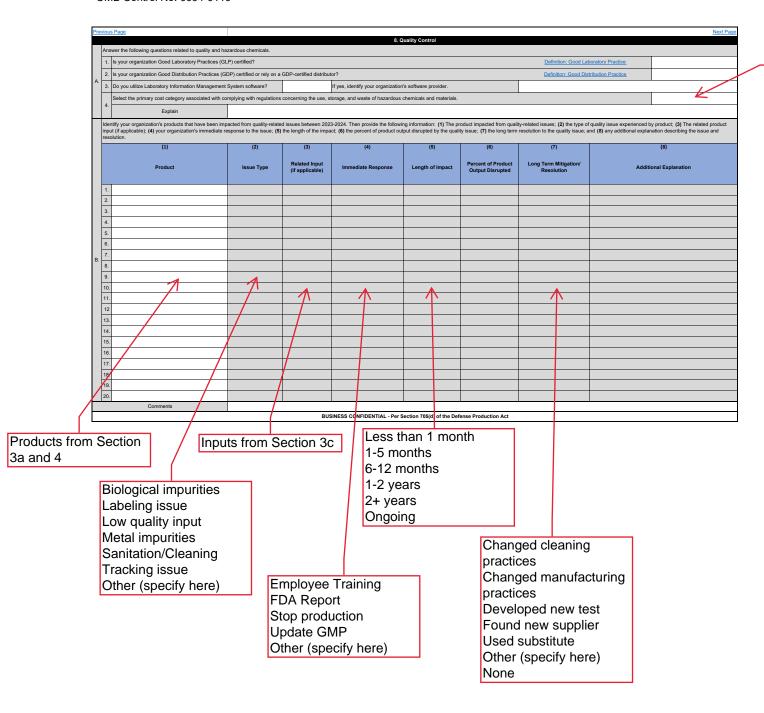
Survey will include 258 discreet chemicals

BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act

					5. Ac	ctive Pharmaceutical Ingred	lient Suppliers					Next Page
anization does not manufacture or	distribute APIs, proceed	to Section 6.										
following information for each supplie	ed item: (1) the total numb	er of suppliers used to ma	nufacture or distribute this prod	uct; (2) the primary 10-digit F	Harmonized Tariff Schedule (HTS	S) Code if applicable; (3) you	r organization's level of	concern in your ability	to acquire the input in the	next five years [2025-2030]; (	4) the reason for expected difficulty	; (5) the supplied item's country of origin (where the item is
ed or produced); (6) the name of your product; and (12) additional comments	organization's primary su s.	pplier for the supplied item	n; (7) the primary supplier's zip of	or postal code; (8) the primar	ry supplier's country; (9) the aver-	age lead time in weeks; (10)	the primary supplier's	hare of the supplied ite	m; (11) your organization	's assessment of the availabil	lity and location of alternative provide	ers of that that provide the same product or an essentially
	<b>1</b> (0)	40)	Sourcing	Difficulty (4)	(5)	(6)		Primary Supplie	r (0)	(10)	(11)	(12)
Sourced Item	(1)	(2)	(3)			(6)	(7)	(6)	(9)			(12)
Sourced Item uring Inputs and Distributed Products)	Total Number of Suppliers Used	HTS Code	Future Sourcing Concern (2025-2030)	Reason for Future Sourcing Concern	Sourced Item's Country of Origin	Supplier Name	Supplier Zip or Postal Code	Supplier Country	Average Lead Time	Share of Total Supplied Item in 2023 (%)	Assessment of Alternate Suppliers	Comments
			(====,		8				(,	(%)		
Input Name			$\rightarrow$									
Mir	205			$\overline{}$							Colo	Global Source
Mc	derate										Existi	ng Non-U.S. Competitors
	eat											ng U.S. Competitors only
Se	vere										Fxisti	ng U.S. and Non-U.S.
					Change	es to Laws	3					
No	ne				Dolivor	y Delays/I	Evenesiy	o Lood	Timos 🗏		Comp	etitors
					Depend	dence on	Foreian	Supplier	s ⊨			
						ionary Tra		ices				
					Foreiar	n Competi	tion					
						litical Insta	willy					
					Increas	sed Cost						
							124					
						rice Volati						
					Insuffic	ient U.S. I	Manufac	turina				
								taring				
					Lack of	f Skilled W	orkers					
					I imited	d or Sole S	OUICE					
					LOSS 01	f Critical S	uppliers					
					Natura	l Disasters	of Force	е Маіец	re 🗏			
								c iviajou	' =			
					⊢—Other (	Specify he	ere)					
Comments:												

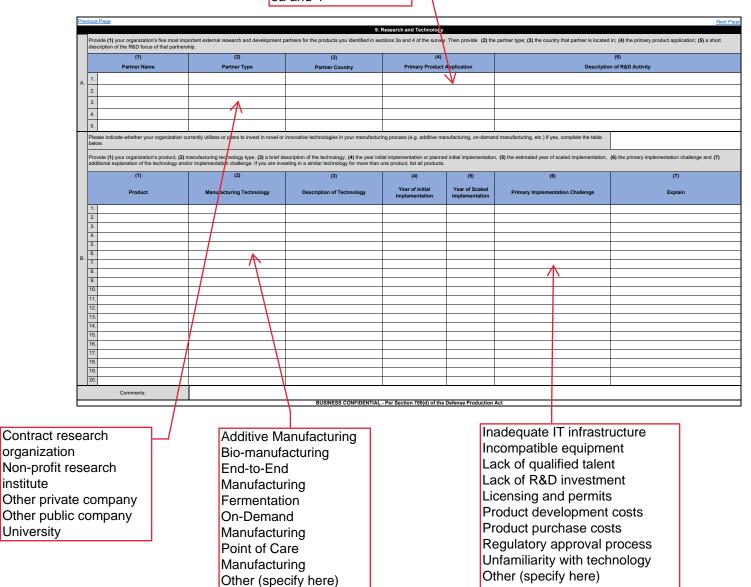
Prev	ious Page							Next Page
	This section must be completed in its entirety, blank of the completed in its entirety, blank of the complete in its entirety.	2023 sales for the products listed	d in sections 3a and 4 of the survey and provid		age of 2023 annual sales of the pr	imary product attributed to each customer.		
		1. Customer Information				2. Product Information		
	Customer Name	Customer Postal Code	Customer Country	Primary Product Sent to Customer	Product Type Sent to Customer	End Use of Primary Product	Brand Name of Finished Dose Form (if known)	Percent of 2023 Product Sales Attributed to Customer
	1.							
	3.							
Α.	4.							
	5.							
	6. 7.	,						
	8.							
	9.							
	10.							
	Identify your organization's top U.S. government and	top non-U.S. government custome	ers in 2023 if applicable.	71	1	1		
		1. Customer Information			Product Type Sent to	2. Product Information	Brand Name of Finished	Percent of 2023 Product Sales
В.	Customer Country	1	Government Department/Office	Primary Product Sent to Customer	Customer	End Use of Primary Product	Dose Form (if known)	Attributed to Customer
	U.S.	United States			1			
Ш	Non-U.S.			1				
	Comments:		BII	SINESS CONFIDENTIAL - Per Section 705(d) of the De	fense Production Act	<del>-   / </del>		
		List Genera Sections 3	ated from A and 4	API FDF Both API and FDF	Pharr Non-I Unkn	maceutical Use Pharmaceutical Use own (Specify here)		





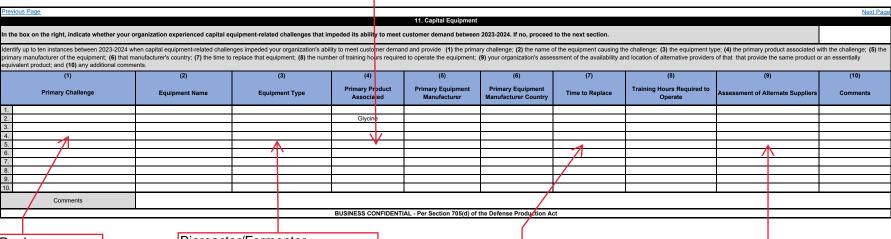
Administrative and Legal
Containment Devices
Decontamination Systems
Safety Equipment and
Utilities
Training
Ventilation and Filtration
Systems
Waste Removal
Other (specify here)

institute



Prev	rious	Page							Next Page
	Pace	ord the total number of full-time equivalent (FTE) em	ployees for your LLS	operations for each year si	10. Employmen		ovide the total number of curre	nt vacancies	
		nition: Full Time Equivalent	ipioyees for your o.o	. operations for each year si	nice 2021, including employe	ses who work on-site, then pr	ovide the total number of curre	nt vacancies.	
	Delli	Illion. Full Time Equivalent	ı						Total Number of Current
A.				2021	2022	2023	2024	2030 (estimate)	Vacancies
		FTE Emp	oloyees						
		each occupation type, Identify (1) the total number of lenge most impacting that occupation; (5) the degre			yed; (2) the number of current	nt vacancies; (3) the estimate	ed number of FTEs for each oc	cupation type for the year 20	30, (4) the type of workforce
		3 1 3 1 707 3	(1)	(2)	(3)	(4)	(5)		(6)
		Occupation	Current Number	Current Number of	Estimated Number of				
			of FTEs	Vacancies	FTEs in 2030	Top Workforce Challer	nge Degree of Challenge	Explanation	on of Challenges
	1.	Chemical/Biological Technicians							
	2.	Biological Technicians				4	$\leftarrow$		
	3.	Packaging and Filling Machine Operators, and other Production Workers				7		– Minor	
B.	4.	Manufacturing/Process Engineers						Moderate	
	5.	Stockers, Order Fillers and Other Warehouse Workers			/			Great	
	6.	Chemists/Material Scientists						Severe	
	7.	Biological Scientists/Biochemists						None	
	8.	Regulatory Affairs							
	9.	Inspectors, Testers, Sorters, Samplers, Weighers							
	10.	Other Quality Control/Quality Assurance Workers							
	Resp	oond to the following questions related to your organ	nization's use of autor	mation.		ļ	Response	Exp	planation
	1.	Since 2020, has your organization reduced it workfo	rce due to increased	reliance of automated proce	esses?		Λ		
C.	2.	If Yes, please estimate the percentage of your work	force reduction.	/					
	3.	Which occupation has been impacted the most by y	our organization's us	e of automation?					
		Comments:					/		
				BUSINESS CONFID	ENTIAL - Per Section 705(	d) of the Defense Producti	on Act		
			Attra	cting workers to	o location	Yes			
				loyee turnover/		No			
				ng experienced					
			work		a, quaiii ou				
					fauldauaa				
				ficant portion o	i worklorce				
			retirii	•					
				ing barriers					
			Visa	Difficulty/Availa	ability				
			None	9					
			Othe	r (Specify here	)				

Products listed in Section 3a and 4a



Cost to Replace Impending Obsolescence Import/Export Controls Prohibiting Purchase Inability to Scale Lack of Swing Space Lack of Qualified Operators Maintenance Costs No Longer Commercially Available No Longer Supported by Manufacturer Regulatory Compliance Issue

Software Issues Time to Replace

Other (Specify here)

Bioreactor/Fermenter Centrifuge Chiller Clean Room Equipment Conveyor Crystallizer Distiller Dryer Evaporator Fill-Finish Equipment Freezer Heat Exchanger HEPA Fan and/or Filter Hopper Humidity Control System Inspection Equipment Isolator (box with gloves) Membrane Filter Miller Mixer/Blender Overhead Condenser Pressure Control System Quality Testing Equipment Reactor (non-bio) Sterilization Equipment Storage and Packaging Temperature Monitoring and/or Control System Utilities and Support Equipment Vacuum Pump

Other (Specify here)

Less than 1 month 1-5 months 6-12 months 1-2 years 3-4 years 5 years or more Sole Global Source
Existing Non-U.S. Competitors only
Existing U.S. Competitors only
Existing U.S. and Non-U.S.
Competitors

Pre	vious Page									Next Page		
	_		12. Government Support									
					ted the greatest benefit to your operations related to producing or distributing products identified in section 3a and 4 between 2019-2024. Then describe the objective or outcome of utility provisions, or similar programs that provide direct benefits to your business operations.							
		Supporting U.S. Government Er		Supp	ort Type	Year of First Benefit	Length of Support (years)	Support Value (U.S. Dollars)	Description of Support			
A.	1.	A										
	2.	/\										
	3.				<u> </u>							
	4.				<u> </u>							
	5.											
					o your operations related to producing or distributing products identified in section 3a and 4 between 2019-2024. Then describe the objective or outcome of each program of support. mila programs that provide direct benefits to your business operations.							
		Supporting Non-U.S. Entity	Country		Supp	ort Type	Year of First Benefit	Length of Support (years)	Support Value (U.S. Dollars)	Description of Support		
В.	1.											
	2.											
	3.				Ļ,	<b>^</b>						
	4.				<u> </u>	<u> </u>						
	5.											
		Comments:										
			•		BUSINES	S CONFIDENTIAL - I	Per Section 705(d) of the	Defense Production A	ct			
				_								

Biomedical Advanced Research and Development Authority (BARDA) Centers for Disease Control and Prevention (CDC)

Defense Advanced Research Projects

Agency (DARPA)

Defense Health Agency

Defense Logistics Agency (DLA)

Defense Security Cooperation Agency (DCSA)

Defense Threat Reduction Agency (DTRA)

Department of Veterans Affairs Federal Emergency Management Agency (FEMA)

Food and Drug Administration (FDA)

Municipal Government

National Institutes of Health (NIH)

National Laboratories (DOE Labs)

Office of the Assistant Secretary for

Preparedness and Response (ASPR)

State Government

U.S. Air Force

U.S. Army

U.S. Coast Guard

U.S. Intelligence Community

U.S. Marine Corps

U.S. Navy

Other Agency (Specify here)

Direct Monetary Grant
Export Credit Program
Export Lending
Import Duty Reduction
Land Grant or Lease
Loan Forgiveness or
Guarantee
Provision of
Infrastructure
Provision of Utilities
Tax Incentives
Worker Support or
Training Programs
Other Program (Specify

here)

Calendar Year Fiscal Year

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			13. F	inancials				
	Indic	ate the reporting schedule and then record the financial line ite dule.	onses in this section must	t be reported in accord	ance with the selected			
İ	1.	Reporting Schedule:		<u> </u>				
		Income Statement	Record in \$ in the Thousands, e.g. \$12,000 = survey input of \$12					
		income Statement	2020	2021	2022	2023	2024 (Estimate)	
		Total Net Sales (and other revenue)						
	1.	1.1 % Total API & KSM Sales (as a % of line 1)						
B.		1.2 % U.S. API & KSM Sales (as a % of line 1)						
	2.	Cost of Sales / Cost of Goods Sold						
	3.	Total Operating Income						
	4.	Earnings Before Interest and Taxes (EBIT)						
	5.	Net Income						
		Balance Sheet		Record in \$ in the Th	ousands, e.g. \$12,000 =	survey input of \$12		
		Datatice Stieet	2020	2021	2022	2023	2024 (Estimate)	
	1.	Cash and Cash Equivalents						
	2.	Inventories						
C.	3.	Current Assets						
O.	4.	Total Assets						
	5.	Current Liabilities						
	6.	Total Liabilities						
	7.	Retained Earnings						
	8.	Total Owner's Equity						
	Other		Record in \$ in the Thousands, e.g. \$12,000 = survey input of \$12					
			2020	2021	2022	2023	2024 (Estimate)	
D.		Research & Development (R&D) Expenditure						
	1.	1.1 Internally-funded R&D Percentage (as a % of 1.)						
		1.2 Externally-funded R&D Percentage (as a % of 1.)						
	2.	Capital Expenditures						
E.		1. On a scale of 1 to 10, estimate your organization's overall financial health (1 being imminent failure and 10 being highly profitable for the foreseeable future).						
Co	omme	ents:						
BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act								

Data Confirmation
2024 Net Sales
\$0

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	14. Business Challenges									
	Identify the issues that have impacted your U.S. operations from 2019 to 2024, and the issues that you anticipate will impact your organization between 2025 and 2030. Next, rank your organization's top five issues for both time frames (1 being the most important issue; 2 being the next most important issue, etc.).									
	Explain your organization's experienced or expected issues where examples and narrative will aid the U.S. Government's understanding of your concerns and provide any suggestions for ways the U.S. Government (US can help mittigate these issues.									
	Type of Issue	2019 t	to 2024	2025 t		Explanation of Issue	Suggested USG Solution/Mitigation			
	Aging equipment, facilities, or infrastructure									
	Aging workforce									
	Competition - domestic									
	Competition - foreign									
	Counterfeit parts and materials									
	Cybersecurity									
	Environmental regulations/remediation									
	Export controls (EAR/ITAR)									
	Financing/credit availability									
	U.S. Government acquisition process									
	U.S. Government regulatory burden									
	Healthcare costs									
	Industrial espionage - domestic									
	Industrial espionage - foreign									
	Input availability (e.g., materials)									
Α	Input cost									
	Input quality									
	Intellectual property/patent infringement									
	Training/Retaining Skilled Labor									
	Labor availability/costs									
	Lack of infrastructure									
	Lack of public R&D partnerships (e.g., universities)									
	Natural disasters (including disease/quarantine)									
	Obsolescence									
	Per- and poly- fluoroalkyl substances (PFAS) regulations									
	Proximity to customers			1						
	Proximity to suppliers			1						
	Quality assurance									
	R&D costs									
	Reduction in/Lack of U.S. demand									
	Taxes and Tariffs									
	Trade disputes									
	Worker/skills retention									
	Other									
	Other									
	Respond to the following questions related to regulatory issue	es that are ir	mpacting yo	ur organizati	on's operati	ons.				
	Are environmental regulations inhibiting your organization	from constr	ucting, expa	anding, or mo	dernizing a	ny of its facilities in the United States?				
	If yes, please explain:									
	Are quality regulations inhibiting your organization from constructing, expanding, or modernizing any of its facilities in the United States?									
	2. If yes, please explain:									
В.		What U.S. regulations, if any, inhibit your organization from researching, developing, or implementing new manufacturing processes?								
В.	3.									
	What can the U.S. government do to promote the manufar	cture of your	APIs or sta	arting materia	ls in the Un	ited States?				
	4.									
	More generally, how could the U.S. government help your organization improve its long-term competitiveness in the United States?									
	Additional Comments:									
H	BUSINESS CONFIDENTIAL - Per Section 705(d) of the Defense Production Act									
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15. Certification					
The undersigned certifies that the information herein supplied in response to this questionnaire is complete and correct to the best of his/her knowledge. It is a criminal offense to willfully make a false statement or representation to any department or agency of the United States government as to any matter within its jurisdiction (18 U.S.C. 1001).  Once this survey is complete, first save it to your computer, and then submit the document via email to the address below:  APIsurvey@bis.doc.gov					
Organization Name					
Organization's Internet Address					
Name of Authorizing Official					
Title of Authorizing Official					
E-mail Address of Authorizing Official					
Phone Number and Extension of Authorizing Official					
Date Certified					
In the box, provide any additional comments or any other information you wish to include regarding this survey assessment.					
How many hours did it take to complete this survey?					
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