			AGENCY USE ONLY	
United States ENVIRONMENTAL PROTECTION AGENCY Washington, DC 20460  SNAP INFORMATION NOTICE			OMB Control No.: 2060-0226	erolael N Debo
			Expires: X/XX/2017	VIII
			Date of Receipt:	
<u>Via US Postal</u> SNAP Document Co U.S. EP Mail Code: 6 1200 Pennsylvan Washington D	Case Number:			
Part I: INTRODUCTION AN	CBI INFORMATION		William In Co. Co. Co.	
Section A: Introduction				
PA's New Chemicals Program and the lease visit the SNAP website for instruelle lease visit the SNAP website for instruelle lease visit the SNAP website for instruelle lease visit the SNAP website some statement of the lease visit the SNAP website lease some statement of the lease visit the SNAP website lease visit the SNAP website lease visit the SNAP website some statement of the SNAP website for instruction of the SNAP w	TSCA/SNAP Addendum form in actions and frequently asked q type of notice submitted (Select or technology) not previously listed	uestions.	Considerate of the space of the	manus ma ma ma ma ma ma ma ma ma ma ma ma ma
ection B: Identification of Alterna	ativos	Represent a musemplific folia or proof. June 1995, 319		
Name of Alternative. Note: Additional in	formation about the proposed sul	bstitute must be provided in Part III, Section A	A Comment	CBI
. Indicate the-sector and end-use for which	:h you are submitting this SNAP I	nformation Notice.		
Sector(s)		End-Use(s)	If you chose "Other" as an end- use, please specify here.	СВІ
				$\vdash$

### Part I: INTRODUCTION AND CBI INFORMATION

Response de la companya del companya del companya de la companya d
Statement of Data Confidentiality Claims.  ality.  describe those harmful effects and explain why they  be treated as confidential.  connection with these disclosures.  ourts concerning this information.  United States Environmental Protection Agency (EPA) gulations for the protection of stratospheric ozone, any information received by the Stratospheric Protection
re that these companies can complete the work of 42 U.S.C. 7414(c) respecting confidential business
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STREET, STREET

Part II: CONTACT INFORMATION		
Section A: Submitter Contact Information		
Person Submitting Notice (in U.S.): Enter information for the official who	signs the certification in Part XIV Certification.	
Name of Authorized Official	Title	СВІ
Company/Organization		601
our party of Barmackers		CBI
Mailing Address	Telephone Number	СВІ
Email Address		CBI
2. Agent (if applicable): Complete only if you authorize an agent to assist you	in preparing this notice. The agent must also sign t	he certification.
Name of Authorized Official	Title	СВІ
Company/Organization		CBI
Mailing Address	Telephone Number	СВІ
Email Address		CBI
Is this person granted full access to Confidential Business Information?		
3. Technical Contact (in U.S.): If applicable, identify a person who can provide period. If the authorized agent is also the technical contact, include that person	e EPA with additional technical information on the son's information in both locations.	ubstitute during the review
Name of Authorized Official	Title	СВІ
Company (Companies)		V
Company/Organization	**************************************	CBI
Mailing Address	Telephone Number	CBI
Email Address		
Email Address		CBI
ls this person granted full access to Confidential Business Information?		
<ol> <li>Joint Submitter (if applicable): Identify the joint submitter, if any, who is a in the notice.</li> </ol>	uthorized by the primary submitter to provide some	of the information requirec
Name of Authorized Official	Title	СВІ
Company/Organization		CBI
company, organization		Сы
Mailing Address	Telephone Number	СВІ
Email Address		CBI
		CBI
Is this person granted full access to Confidential Business Information?		'

CONFIDENTIALITY CLAIMS: All contacts listed on this page will be granted access to CBI, unless otherwise noted.

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### Part III: GENERAL INFORMATION

Section A - Alternative-Specific In	formation			//	100
	S 227 S				
L. Identify Proposed Substitute: If a blen	d, provide the percent composition of each constitu	uent by weight.		l -	1
(a) Chemical Name (p	referably IUPAC nomenclature)	(b) Percent Composition (by weight)	(c) Chemical Abstracts Service (CAS) registry number	(d) Molecular Formula	CE
Posturiori della	pour you applied the policy of	A THE REAL STREET AND ASSOCIATED IN THE PROPERTY OF THE PROPER	(CAS) registry number	IN 180 HO IN DRIV SERVICES	
C. The Committee of the					
) For alternative processes and technologies	ogies (e.g., Absorption Chillers, Stirling Cycle), descr	I ibe the technology and provide a techn	I nical drawing and a diagram of th	L e system as an attachment. Also	
rovide the location and identity of any c	hemical constituents.	1000 A		•	CE
	A contain discrepants has marked and year (bit	A Time alcord couldn't be added a legion	na arienia leliela i sensina le	AND PRODUCT OF STREET	
	and the state of t	12 Life picker was remain absorbed to	He William Brook worth in the	of the succession of the party	1200
) If you have applied for or hold a paten atent Name	on the proposed substitute, provide the following	the publication of the state of	Tables Coursed in Dataset	all I maked become the	
tent Name	Patent Number (if available)		Topics Covered in Patent		CE
S					
Commercial/trade name(s) of alternat	ive:				CB
					-
Generic name: If the name of the com	mercial/trade name of the proposed substitute is c	laimed Confidential Business Information	on, provide a generic name. The	name should reveal the	
emical identity or alternative process d	escription to the maximum extent possible.	to a grant mineral subset of particular	ogt a re-ferring is broid a fee	incepto ye o mittiga le	0.001
Impurities: Identify any impurities that	are reasonably anticipated to be present in the pro	proceed substitute as manufactured for	commercial nurnoses. If there as	a unidentified impurities, enter	
	ight percentages. Do not include substances that a		그 마다 가는 그를 가게 되었다. 그래말 하는 경기를 하는 것이 되었다.		
				callegran	
(a) Impurity Chemical Name	(b) Percent Composition (by weight)	(c) CAS registry number	(d) Molecu	lar Formula	CB
				Property of the same of the sa	
	Describe any byproducts or degradation products				
	nidentified byproducts/degradation products ente n fire, etc.) and the amount or rate at which it is for		roduct/degradation product is f	ormed (e.g. during	
(a) Byproduct/Degradation Product				(e) Amount (g) /Rate of	
Chemical Name	(b) Percent Composition (by weight)	(c) CAS registry number	(d) When is product Formed?	Formation (g/s)	CB
					2
Test Marketing: Has a test marketing n	otification been sent to EPA?				СВ
Page 1		and arrived the second of the second of the			
					_
Physical and Chemical Properties: Atta	ch copies of all test reports and specify the protoco	I used. If submitting a blend substitute,	, physical and chemical propertie	s are required for the blend.	СВ
) Molecular weight				g/mol	
) Physical state				at 20°C	- 11
Melting point		Landard March		°C at 1 atm. pressure	
Boiling point	CONTRACT BETWEEN SHIP TO STATE OF SHIP SHIP	painted and all plantings founds being	along a supervision of the land	°C at 1 atm. pressure	
Specific gravity (Relative to water or ai	, specify )			at 20 °C	
Lower Flammability Limit (LFL) (Using A	STM E681)			ppm or %	
Upper Flammability Limit (LFL) (Using A	STM E681 )			ppm or %	
Bubble point (for blends)				°C	
Flash point				°C	
Other (specify)					
/// If you are outrockles this lefs	- f	ak of Chamistry and Shoots Advant	(I) If you have performed chem	ical analysis and testing on the erties, attach copies of all test	
(k) if you are extracting this informatio					
	n from a public reference source (e.g., CRC Handbo copies of the reference. Supporting documentation		reports and specify the p		CB

. Ozone-depletion potential (ODP): Provide ource for each ODP.	e the 100-year ODP of the proposed substitute	relative to CFC-11. If the substitute is a blen	d, provide the ODPs of the i	ndividual constituents. Reference	e the
	ed Substitute	(a) ODP relative to CFC-11	Informati	on Sources	СВІ
(If blend, include Ol	DP of each constituent )	(a) ODP relative to CFC-11	momac	on sources	СВІ
			and the second second		5
The second various on					
) Provide any additional data on the ODP omine loading potentials).	of the proposed substitute (e.g. chlorine or	(c) Reference the source of this informa supporting documentation.	tion and attach any	Supporting documentation attached?	СВІ
ES DEEK STREET, CO. OF THE OWNER,	A CONTRACTOR OF THE PARTY OF TH				
ssessment Report of the Intergovernmenta	the alternative's global warming potential relati il Panel on Climate Change (IPCC AR4). Alternate the substitute is a blend, provide the GWPs of t	sources may include the 2010 World Mete	orological Organization (WN	10) Scientific Assessment of Ozo	urth ne
Proposed Substitute (If blend, include GWP of each constituent)	(a) 100-year GWP (Relative to carbon dioxide)	(c) Atmospheric Lifetime (ATL)	Informati	on Sources	СВІ
All later Standar	and the second second second		ALLES AND AND ADDRESS.		
If the proposed substitute or any componernative.	nents of a blend is captured as a byproduct of ar	nother manufacturing or industrial process,	indicate the source of the	Supporting Documentation Attached?	СВІ
the party on full region	or why arranged to be accomplished to the control of the control o	Appear to provide a management of Nation	of the Landson of the seasons	and the last and anything the state of the	
. VOC Status Information:					CBI
	ion of volatile organic compound (VOC) under C		essing the development of	AND REST	100
ate Implementation Plans (SIPs) to attain a	nd maintain the national ambient air quality sta	indardsr			
) For blends, which components, if any, are	e exempt from the definition of VOC at 40 CFR 5	1.100(s)?			CBI
Has a request for VOC exemption been su	bmitted? If so, provide details below (e.g., date	of submission).		participal description of a	· CBI
		handed at 10% of a little	HINN SO, THE COME AND SON TO	- And other meltion of selections	
	, provide information on the reactivity of the co	empound(s) in the atmosphere, such as the	maximum incremental react	ivity in grams of O <sub>3</sub> per gram of	СВІ
OC and/or the kOH value.  Proposed Subs	stitute/Component	MIR (g O <sub>3</sub> /g VOC)	kOH value	Other	СВІ
		Dint is 37 g TOO			
	· ·	•	Collection that bed in		0.20
. Cost of Proposed Substitute (chemical o	or blend):Provide an estimated cost of the subst	itute in US\$/kg, US\$/lb, or other.			СВІ
Provided to the second					
. Environmental Regulations.					СВІ
Is the substitute, or a component of the s	ubstitute, a hazardous air pollutant?				
	substitute, a hazardous waste under RCRA regul	ations?			
Provide information on any environmenta	al regulatory statute (such as those listed below	) applicable to the manufacture, use, and di	sposal of the proposed subs	titute.	СВІ
itute		Statute Citatio	n & Explanation of Require	ments	COI
les of the Clean Air Act (CAA) other than Ti	itle VI				
ean Water Act (CWA)					
fe Drinking Water Act (SDWA) source Conservation and Recovery Act (RC	CRA)				
deral Insecticide, Fungicide, and Rodenticio					
xic Substances Control Act (TSCA)	hands have been seed on the St.				
omprehensive Environmental Response, Co	empensation and Liability Act (CERCLA)	wiff les yorkest? to southest? (5. g.	National Assessment of the E	ment and terrorist deligible from	est 61
	A STATE OF THE STA	Ellisandra (SAS), hard digit of an analysis of the		the department of the contract	

#### Part III: GENERAL INFORMATION

Emergency Planning and Community Right to Know Act (EPCRA or SARA Title III)		
State and local laws		
Other applicable environmental federal, state, and local laws not mentioned above		
13. Health and Safety Regulations: If applicable, describe how occupational, consumer, or general pop	ulation exposure to the alternative is regulated under health and safety related st	atutory authorities.
Statutory Authority	(a) How does regulation apply? Provide CFR citation.	СВІ
Department of Transportation (DOT) (e.g., Vapor UN1013, Class 2.2)		
Occupational Safety and Health Administration (OSHA) (e.g., TLV-TWA, Personal Protective Equipment [29 CFR 1910.132])		
State and local laws		
Other (e.g., Food and Drug Administration Threshold of Regulation [TOR] Exemptions)		

14. Toxicity Limits. For the proposed substitute, impurities and/or byproducts, provide permissible exposure limits (PELs), occupational exposure limits (OELs), or acceptable exposure limits (AELs) set for use in the workplace, if available.

constituents), Impurity, and/or Byproduct	Permissible Exposure Limits (PELs)	(b) Occupational Exposure Limits (OELs) (e.g., WEEL, TLV, STEL)	(c) Manufacturer's Acceptable Exposure Limits (AELs)	Sources	СВІ
(d) if available, summarize the acute and chronic toxici organism (e.g. human and/or other mammals, fish, wil available to you.	그렇게 하는 사람이 아니라 아름다면 하는 사람이 아니라 아니는 사람이 되었다.	[1] [1] [1] [1] [2] [2] [2] [2] [3] [3] [4] [4] [4] [4] [4] [4] [4] [4] [4] [4	Supporting Documen	etation Attached?	СВІ

15. Safety Documents. Please attach a copy of any documents that will be provided to any person who is reasonably likely to be exposed, such as:

Safety Document	Supporting Documentation Attached?	CBI	
Material Safety Data Sheet (MSDS)			
Hazard Warning Statement	THE STREET PROPERTY AND ASSESSMENT OF THE PROPERTY OF THE PROP		
Warning Labels		/MPH-2184	
Other (provide name)			

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#### Part IV: REFRIGERATION AND AIR CONDITIONING-SPECIFIC INFORMATION

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Section A:	Retrigeration a	nd Air-Condition	ling Use Profile

1. Specific End-Use: Identify each end-use and specific applications (if applicable) for which you are seeking review in new and/or retrofit equipment. Identify the ODS and other alternatives used in the end-use and/or application and the quantity of proposed substitute needed to replace it for each end-use and/or application (i.e., the replacement ratio).

Note: If the proposed substitute can be used both as a retrofit and in new equipment, these uses should be treated as separate end-uses throughout this form. The applications listed below are not meant to be all inclusive and do not reflect regulatory requirements. The purpose of defining these applications is to inform the Agency's understanding of how the alternative being submitted to SNAP will be used.

End-Use	Application	(a) Mark all that apply	(b) New (N) equipment, retrofit (R) equipment, or both (N,R)?	(c) ODS and other substances being replaced	(d) Replacement ratio (lb: lb)	СВІ
	Centrifugal					La la
Chillers (Commercial Comfort AC)	Positive Displacement Chillers (includes Reciprocating, Screw, Scroll, Rotary Compressors)				in the second	
Industrial Process Refrigeration (IPR)	Established to the second					
Industrial Process Air Conditioning						
Ice Skating Rinks	FIGURE CO. AND THE SECOND					
Cold Storage Warehouses						
	Refrigerated Trailers (Reefers)					
Refrigerated Transport	Refrigerated Shipping Containers					
	Refrigeration Equipment within Motorized Vehicle (e.g., food delivery, ice cream truck, ship hold)				ive S. apad Vera regress S. yap a reards bus (Ca array dae. g	polita i den si
	Remote Rack System, Direct					
	Remote Rack System, Indirect	desert autobation		and the second	and a facility	
Retail Food Refrigeration	Stand-alone Units (self-contained equipment such as individual reach-in coolers, glass door merchandisers, fountain beverage dispenser, frozen beverage dispenser, etc.)	Shrippin sea	gentles.			
	Remote Condensing Units for Walk-in Coolers or Multiple					
Vending Machines	Reach-in Coolers					1127
Drinking Water Coolers	Built-in Water Fountain					
Commercial Ice Machines	Stand-alone Water Coolers Self-contained Ice Machines					
	Remote Ice Machines					
	Household Refrigerator and Freezers					
Household Refrigerators and Freezers	Small Refrigerated Household Appliances (e.g., chilled kitchen drawers, wine coolers, and mini- fridges)	Salayon, christian star a song travers (samted <b>ig</b> (t)	harmonia (nel martino del tra) harmonia (nel martino) restrolares (nel martino)	the clinic and the control of the co	Date of the Control o	inse
	Room Air Conditioners (such as window units, packaged terminal air conditioners (PTAC) and heat pumps (PTHP), and portable self-contained air conditioners)			L		
	Mini-Splits, Non-Ducted	of south the same of the same of				
	Multi-Splits, Non-Ducted					1000
Residential and Light Commercial Air Conditioning and Heat Pumps	Split-Systems, Ducted, Household (Central A/C)	nicolar general phalosphica s	Sold (III A) wheelth could	minutes	quebet	
Constituting and riedt runips	Split-Systems, Ducted, Light Commercial (Central A/C)					
	Packaged Rooftop Units				Water Town	
	Water-Source Air Conditioning and Heat Pumps					

1						
	Ground-Source Air Conditioning		and the second			
	and Heat Pumps					
Residential Dehumidifiers	Light-duty Vehicles (e.g.,					
	passenger cars)			AND THE PARTY OF THE		01-0-0
	Light-duty Trucks (e.g., minivans, full size pick-up trucks, and full-					116
	size SUVs)					
	Heavy-duty Vehicles (e.g., heavy-					
Motor Vehicle Air Conditioning	duty pickup trucks and vans, and					
	commercial medium and heavy- duty on-highway vehicles)				Company of the last	interior
ALCOHOLOGIC CONTRACTOR		Marie Color State				100
	Off-road Vehicles (e.g., farm and construction equipment)					Live Co.
The sale of Marien Tree year of the A	Buses and Passenger Rail					1 20000
	Thermosiphon					
Non-mechanical Heat Transfer	Recirculating Coolers					
Mechanical Heat Transfer	Organic Rankine Cycle (ORC)	(III Markey Johnson				
Very Low Temperature Refrigeration	THE RESIDENCE OF THE PARTY OF T					Indiana Inc
	Uranium Isotope Separation				Children Steel	to pain
	Processing			and provided soles		
Other (specify)	Ice Cream Makers					
					THE PARTY OF THE P	
<ol> <li>Additional End-Use Description: Ple does it use a secondary loop? In what t medium, or high temperature refrigera</li> </ol>	types of locations will the equipment b	oe used (e.g., for refrigeration th	is could include supermarkets, conver	nience stores, and/or restaurants)?		СВІ
(e.g., piping, refrigerant oil) and attach changes larger compressor, special safe				(c) Changes in labor and energy costs	(d) Ongoing operational costs of equipment	СВІ
				NAME OF THE PARTY		99719
				Value of second against the		
				and shall promine to the light		
A Decid sales Decide sales and infe		d and attacks as a series	the account of substitute by and use a	nd/or application		
4. Production: Provide estimated infor	rmation on production of the proposer	a substitute of equipment using	the proposed substitute by end-use a	Пауот аррисаціон.		
End-Use	Application		or technology will be available (or rently available)	(b) Anticipated first year annua	I production for end-use (kg)	СВІ
5. Market Share: Estimate the timing to	for market penetration and percentage	e of the market that is antisinate	ed to be cantured by this proposed suit	ostitute		
End-Use	Application	(a) Years until maximum market penetration	(b) Maximum annual produc		(c) Anticipated market share at market penetration (%)	СВІ
			TO SECURE OF THE PROPERTY.			
						C. S.
E Faces Efficiency Dec 11 11 11		latina ta tha an tatana an an				
6. Energy Efficiency: Provide the altern	native s impact on energy efficiency re	active to the substance it is repla	icing in similar equipment. Attach doc	umentation, if available.		
End-Use	Application	Energy Efficiency (+/- X%) rela	tive to substance(s) being replaced	Supporting Documer	ntation Attached?	СВІ
TO THE RELEASE OF THE REAL PROPERTY.	A CONTRACTOR OF			- Industrial Committee (		
				A CONTRACTOR SHAPE		
The second secon		HOLL SOLVEN		Reading of Street, 1989.		7

						СВІ
7. Refrigerant Oil: Provide information on the	e chemical class of refrigerant of	oil you anticipate will be used (e.g.,	polyalkylene glycol, polyolester, m	ineral oil, etc.) and information on r	efrigerant/oil solubility.	
As make a confidency profession		And action shall be succeeded.	es no terior appepar, per encuero que que tribre o por encuercio describerar	Transmitter and a second and a	(And retail or reproper and and a	13 15 15
8. Application of Proposed Substitute. Pleas use(s) and application(s) for the proposed su						
alantana antigana arta diria transpo	ou introduis ma admini di				(d) Equipment capacity	
End-Use	Application	(a) Equipment Lifetime (years)	(b) Typical charge size (kg)	(c) Maximum charge size (kg)	(kWh, tons)	СВІ
End-Use	Annii	cation	(e) Typical room size (m³)	(0.54)	(g) Anticipated room air	СВІ
Lito-Ose			(e) Typical room size (iii )	(f) Minimum room size (m³)	exchange rate (ACH)	Col
						195
9. End-Use Specific Standards: List any stand	dard-setting organizations (U.S.	or ANSI/ISO) that have or will evalu	ate the proposed substitute and/o	r equipment in the proposed end-us	e(s) and identify the associate	d
standard.		ř				
Standard-Setting Organization		(a) Standard No	umber and Title	(b) Status (e.g., under o	levelopment, final)	CBI
American Society of Heating, Refrigerating, a (ASHRAE) (e.g., ASHRAE 15)	and Air Conditioning Engineers					200
	250)				***************************************	
Underwriters Laboratories (UL) (e.g., UL 484,	UL 250)				Service Managing you	T-RILL
Society of Automotive Engineers (SAE) Intern	ational			Sudbill's best arrevine tree	coloqui estimatent y l	99993
Other (i.e., International Electrochemical Cor Organization for Standardization (ISO))	mmission (IEC), International	gradeni etti oltan 18. apt		desired translated from the pro-	kina muharaha kasa s	
Section B: Refrigeration and Air Cond	ditioning Physical and Che	mical Properties				Mr. Co.
Section 5. Reingeration and Air Cont	and onling i mysical and circ	inited 1 Toperacs				
1. Physical and Chemical Properties: Provide	information on the physical an	d chemical properties relevant to e	valuating the proposed substitute	in refrigeration and air conditioning	end-uses.	СВІ
(a) Vapor pressure @ 20 °C					atm	
Please also provide vapor pressure-	temperature curve:		Attac	ched?		epiteli (
(b) Heat of combustion (c) Critical temperature					kI/mol °C	1
(d) Critical Pressure		a state to be made and			atm	avie
2. ASHRAE Designation: If applicable, indicat	te the status of submission to o	r publication bythe ASHRAE Standin	g Standard Project Committee 34	(SSPC 34).	applied man, mon, any colors	СВІ
Not submitted to ASHRAE SSPC 34.						
Submitted to ASHRAE SSPC 34, not yet publis Published by ASHRAE SSPC 34. If so, provide t		nd classification are available, provid	de below.			
Substitute or Ble		ASHRAE D	esignation	ASHRAE Class	sification	CBI
						land a Ca
Section C: Flammability						
<ol> <li>Flammability-Related Physical and Chemic conditioning end-uses.</li> </ol>	cal Properties. Provide informa	ition on the physical and chemical p	roperties relevant to evaluating th	e flammability of the proposed subs	titute in refrigeration and air-	СВІ
(a) Maximum pressure of combustion					atm	
(b) Maximum rate of pressure increase during ASHRAE flammability class 3)	g combustion (Required only for	refrigerants designated as				
(c) Minimum ignition energy (MIE)	China animalistic shall be a	States and the second section in the			Joules	10.190
2. Flammability Assessments and Test Data.					privi se primpilistan sa la gr	lingili.
Required if flammable	who winness provide	e alleganger berongsteller im Gredericans	Summary	of Results	Supporting Documentation Attached?	CBI
(a) Fault Tree Analysis or Failure Mode and Ef	ffects Analysis (Required for eac	h end-use)			Attacheur	
(b) Risk assessment for all end-uses, consume	er and occupational (technician	exposure				
(c) Results of ASTM E681 Flammability Limits summary of results)	in Air (include temperature at	which test was conducted in	Australia (Santanana e april)	andre retre la essenciones se	erin terulaşındı. Adlının	magail (
(d) Fractionation during Leakage (Required or	nly for blends with flammable c	omponents)				
3. Flammability Concerns and Mitigation: Pro	ovide any information on flamn	nability concerns and mitigation me	asures.	To have a series of the control of t	Supporting Documentation Attached?	СВІ
(a) Detail any abatement techniques that are associated with flammable substances or mix						
(b) Additional information on flammability co	ncerns and mitigation	COLUMN DESCRIPTION OF THE	ability of the backets had been	the left of lighting and bit with the real	Africa ya Rosella abiyinsi	

Section		

4	Eurocura	Madia	and Da	lanca In	formation

(a) Identify the media(s) to which the proposed substitute is released (e.g., indoor air, outdoor air, water, land).		(c) If releases occur outdoors (e.g., outdoor air, water, land), provide information or estimates of the magnitude of release (ppm or percent of charge).	СВІ
(d) Identify engineering controls used to reduce or prevent releases to the environment (e.g., safety valves, gas scrubbers).	(e) Identify the contact pathway (e.g., Ingestion, Inhalation, dermal).	(f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gloves, chemical hoods).	СВІ

2. Identify and explain the activities, duration of activities, and typical and maximum exposure concentrations in which worker exposure to the proposed substitute is expected to be the highest for each scenario in (a) through (c).

Identify activities with typical	Duration of A	ctivity	Exposure Concentration		СВ
and maximum potential for exposure	Typical	Maximum	Typical	Maximum	
	hours/day	hours/day	ppm	ppm	
day become a tractification about	day/year	day/year	%	%	
nters against supplied	hours/day	hours/day	ppm	ppm	A A
	day/year	day/year	%	%	
	hours/day	hours/day	ppm	ppm	
(c) Disposal (e.g., connecting and disconnecting refrigerant lines)	day/year	day/year	%	%	
	and maximum potential for	and maximum potential for exposure  Typical  hours/day  day/year  hours/day  day/year  hours/day	and maximum potential for exposure  Typical  hours/day  hours/day	and maximum potential for exposure    Naximum   Typical   Maximum   Typical	and maximum potential for exposure    Naximum   Typical   Maximum   Typical   Maximum   Ppm   Pp

3. Estimate typical and maximum number of pieces of equipment a worker would (a) manufacture and/or charge, (b) install and/or service, and (c) dispose per day.

Scenario	Typical Number of Pieces	Maximum Number of Pieces	СВІ
(a) Manufacture and charging of equipment			
(b) Installation and servicing			
(c) Disposal		The state of a there is a series approximate.	in time !

4. Provide information on training materials related to manufacture, installation and servicing, and disposal. If the proposed substitute is flammable, describe how these guidelines differ from training for non-flammable refrigerants.	Are any training materials attached?	СВІ

#### 5. Exposure during Use of Equipment

(b) Identify who is most likely to be exposed to the substitute at the end- use (e.g., consumers, workers)?	(c) Estimate the typical and maximum annual leak rates from the equipment, in terms of (1) ppm and/or (2) percent of charge.		CD
	Typical	Maximum	СВІ
	ppm	ppm	
	%	%	

6. Information on Recovery Practices: Section 608 of the Clean Air Act prohibits the intentional release (venting) of refrigerants, ozone-depleting and their substitutes, while maintaining, servicing, repairing, or disposing of air conditioning or refrigeration equipment. Please provide information below on how the substitute will be recovered.

h) How will the refrigerant be recovered? Please provide standards, reports, or analyses from ETL, UL, AHRI, or equivalent on refrigerant-specific servicing equipment or the easibility of using existing refrigerant recovery/recycling equipment.	Supporting Documentation Attached?	СВІ
s) Please provide a description of recovery procedures (e.g., recover and recharge or recover and send to reclaimer).	Supporting Documentation Attached?	СВІ
) Indicate the anticipated recovery efficiency of the refrigerant (percent of charge).	Supporting Documentation Attached?	СВ

#### Part V: FOAM BLOWING-SPECIFIC INFORMATION

replace it for each end-use and/or application (i.e., the replacement ratio).

Section A: Foam Blowing Ose Profile		
1 Specific End. Hea: Identify each and use that may be reasonably anticipated for the alternative Identify	landificable ODS and other alternations would be to	 er de la companya de

End-Use	(a) Mark all that apply	(b) ODS and other su	bstances being replaced	(c) Replacement r	ratio (lb: lb)	СВ
Rigid Polyurethane: Appliance						
Rigid Polyurethane: Spray		Water the Control of the	A Note that the second			
Rigid Polyurethane: Commercial Refrigeration						
Rigid Polyurethane: Sandwich Panels						
Rigid Polyurethane: Slabstock and Other						
Rigid Polyurethane & Polyisocyanurate aminated Boardstock						
Flexible Polyurethane					ficerbal emperature	
ntegral Skin Polyurethane						
Polystyrene: Extruded Sheet	The later of the later				by Maria Market Street Mark	
Polystyrene: Extruded Boardstock & Bille	rt .					
Polyolefin						
diyolellii						_
thenolic Insulation Board & Bunstock Other (specify)  Additional End-Use Description: Pleason blowing agent/equipment? Will the	se describe the specific uses for which you e foam blowing agent be used by consume					c
Phenolic Insulation Board & Bunstock  Other (specify)  2. Additional End-Use Description: Pleas						C
Phenolic Insulation Board & Bunstock  Other (specify)  2. Additional End-Use Description: Pleas from blowing agent/equipment? Will the		ers or restricted to commercial use? Fo	or spray foams, how many components	are used? Will the alternative be used in		C
Phenolic Insulation Board & Bunstock  Other (specify)  2. Additional End-Use Description: Pleas from blowing agent/equipment? Will the	e foam blowing agent be used by consume	ers or restricted to commercial use? Fo	or spray foams, how many components	are used? Will the alternative be used in		
Phenolic Insulation Board & Bunstock  Other (specify)  2. Additional End-Use Description: Pleas from blowing agent/equipment? Will the from the board?  3. Technology Changes and Costs: Description	e foam blowing agent be used by consume ibe any new equipment technology chang	ers or restricted to commercial use? Fo	cessary in order to use the proposed su  (b) Capital costs associated with proposed substitute, alternative process, new equipment, and/or	are used? Will the alternative be used in	high or low pressure spray	С
Phenolic Insulation Board & Bunstock Other (specify)  2. Additional End-Use Description: Pleas oam blowing agent/equipment? Will thoom?  3. Technology Changes and Costs: Description	e foam blowing agent be used by consume ibe any new equipment technology chang	ers or restricted to commercial use? For the second	cessary in order to use the proposed su  (b) Capital costs associated with proposed substitute, alternative process, new equipment, and/or new materials	are used? Will the alternative be used in institute.	(d) Ongoing operational costs	c

5. Energy Efficiency: Provide the alternative's impact on energy efficiency relative to the substance it is replacing in similar products. Attach documentation, if available.

End-Use	(a) Energy efficiency (+/- X%) relative to substance(s) being replaced	(b) Source of Information	CB
			Simesera VIII
			mantional to save the

6. Application of Proposed Substitute. Please provide information on the amount of blowing agent, associated room size, and anticipated room air exchange rate for the proposed substitute in the proposed end-use(s). Note: If personal monitoring data is provided in Section D: Exposure, you are not required to respond to questions (c) through (e) below.

End-Use	(a) Typical amount of blowing agent (kg)	(b) Maximum amount of blowing agent (kg)	(c) Typical room size (m³)	(d) Minimum room size (m³)	(e) Anticipated room air exchange rate (ACH)	СВІ
				MOUTANE CARE TOTAL	CO. Direction in Learning	Van
Section B: Foam Blowing Agent Pl	hysical and Chemical Properties					
	ide information on the physical and cher	mical properties relevant to evaluating	the proposed substitute in foam blowin	g end-uses.	Tates	CBI
(a) Vapor pressure @ 20 °C (b) Thermal conductivity					W/m-K	
				nder different external conditions (e.g.,	Supporting Documentation Attached?	СВІ
is feeting	i surrented ()	in also point proof	all is ten to the control of	(figures) in Andrew	90.64	
Section C: Flammability						
					reng member	
1. Flammability-Related Physical and Che	emical Properties. Provide information o	in the physical and chemical properties	relevant to evaluating the flammability	of the proposed substitute in roam bio	wing end-uses.	СВІ
(a) Heat of combustion			me with the second		kJ/mol	
(b) Auto ignition temperature					*C	
(c) For blowing agent blends containing fla flammable	ammable components, indicate the conc	entrations at which the blend is			ppm or %	
2 Flammability Assessments and Test Da	ta.					СВІ
Section is find that the part of the part						
	: Provide any information on flammabilit	y concerns and mitigation measures.				СВІ
(a) Detail any abatement techniques that	are used to minimize the risks					
			1.10			
program that addresses flammability cond	cerns	Atta	ched?			
(c) Additional information on flammability	concerns and mitigation measures:					
Section D: Exposure						-
1. Exposure Media and Release Informati	ion				1990	
Scenario		released to the environment (e.g., as	a solid waste or wastewater effluent)			СВІ
(a) Manufacture			ppm			
and processes using the proposed			ppm			
(c) Disposal		d to handled one following				
	educe or prevent releases to the environ	ment (e.g., safety valves, gas		isposed of, indicate the method and loca	ation of disposal.	СВІ
scrubbers).						
	at the time of handling/exposure (e.g.,	(g) Identify the contact pathway (e.g.,	ingestion, inhalation, dermal).			СВІ
	7 J. 19 J. S. 18 J. S	num exposure concentrations in which	h worker exposure to the proposed sul	ostitute is expected to be the highest fo	r each scenario in (a), (b), and	de
(c). If monitoring data is available, please					100 100 V + AA	_
Scenario						СВІ
		AND THE STREET, STREET				
formulations, injecting foam into		day/year	dav/vear		94	7
appliances)						
		hours/day	hours/day	ррп	ppm	
blowing		day/year	day/year	9	%	
(c) Disposal of foam blowing agent		hours/day	hours/day	ррп	ppm	
(c) Disposal of loant blowing agent		day/year	day/year	*	%	
Is supporting documentation (e.g., person	nal monitoring data) attached?					
3. Application of Spray Foam (If Applicabl	le)					2
(a) Is the proposed substitute is expected to be used in the spray foam end-use?			(c) is consumer use of the spray foam (questions (e) and (f).	e.g., do-it-yourself spray foam cans) exp	ected? If yes, please answer	СВІ

#### Part V: FOAM BLOWING-SPECIFIC INFORMATION

(d) Please describe the application system for the consumer (e.g., size of	(e) Estimate the typical and ma	ximum concentrations of consumer exposure (ppm	). If monitoring data is available, please provide it as an attachment.
system/container and amount of foam blowing agent in system/container).		Typical	Maximum
		ppm	ppm
Is supporting documentation (e.g., personal monitoring data) attached?			
4. Training Materials			
(a) Provide information on training materials related to manufacture, installation with the guidelines differ from training for non-flammable foam blowing age		e proposed substitute is flammable, describe	Are any training materials attached?
(b) Provide information on training materials related to spray foam application from training for non-flammable foam blowing agents.	s. If the proposed substitute is flam	nmable, describe how these guidelines differ	Are any training materials attached?
5. Exposure during Use  (a) Identify and explain the activity during use of blowing agent in which end-us	ser exposure to the proposed subst	itute is expected to be the highest (e.g., rigid cell for	ams used in residential construction or insulation).
			and the second control of management
(b) Identify who is anticipated to be exposed to the substitute at the end-use	(c) Provide (1) typical and (2) m	aximum exposure concentration estimates (ppm). If	f monitoring data is available, please provide it as an attachment.
(e.g., consumers, workers)?	Typical	Maximum	Supporting Documentation Attached?
	ppm	ppm	
(d) Identify control measures used to reduce or prevent end-user exposures.			
(e) For each end-use, provide maximum annual emission rates for blowing ager blowing agent used to produce the foam. Please also specify the anticipated nu annual emission rates listed in the Instructions. End-Use	mber of years for which the blowin		
Eug-036	Ann	ual Emission Rate	Emissive Lifetime of Foam (years)
Section E: Additional information for Submission of Blends of Fi	oam Blowing Agents		
Blends of different foam blowing agents may also require additional informatio	n, depending on the end-use.		
1. For the following end-uses, a submission is required for blends of blowing a	gents, including blends with blowi	ing agents that are already listed as acceptable:	
Polyolefin Polystyrene: Extruded Boardstock and Billet Rigid Polyurethane and Polyisocyanurate Laminated Boardstock Rigid Polyurethane: Spray Foam* Phenolic Insulation Board and Bunstock			
*For spray foam, if any components of the blend are flammable, then an addition	onal submission is required for the l	blend.	
2. For the following end-uses, it is permissible to blend blowing agents that ar	e already listed as acceptable with	out an additional submission for the blend:	
Rigid Polyurethane: Appliance Rigid Polyurethane: Commercial Refrigeration Rigid Polyurethane: Sandwich Panels Rigid Polyurethane: Spray Foam* Rigid Polyurethane: Slabstock and Other Flexible Polyurethane Integral Skin Polyurethane			
Polystyrene: Extruded Sheet			

#### PROTESTANDON DESCRIPTION AND VALUE OF THE PROPERTY OF THE PROP

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### Part VI: CLEANING SOLVENT-SPECIFIC INFORMATION

Section A: Cleaning Solvent	Use Profile			and the sale and the term to		
1 Smarkin Ford Hear Identify and h		tit the ODS and allies the section			-6 (1-3-5)4	
end use (i.e., the replacement ratio	end-use for which you are seeking review. Iden o).	tiry the ODS and other alternatives u	sed in the end-use or application and	the quantity of proposed su	bstitute needed to replace it to	or eac
End-Use	(a) Mark all that apply	(b) ODS and Other Sub	ostances Being Replaced	(c) Replacement Ratio (lb: lb)	(d) Open or closed process?	СВ
Metal cleaning						
Electronics cleaning Precision cleaning						
	: Please describe the specific uses for which yo acuum sealed equipment, conveyorized equipm					СВ
	Applican Date				On Elizabeth e	le le
3. Technology Changes and Costs:	: Describe any new equipment or technology ch	nanges and associated costs that will	be necessary in order to use the pro	posed substitute.		
End-Use	(a) Technology Chang	es to Use Alternative	(b) Capital costs associated with proposed substitute, alternative process, new equipment, and/or new materials	(c) Changes in labor and energy costs	(d) Ongoing operational costs	СВІ
4. Production and Market Share: Factories by this proposed substitu	Provide estimated information on production of	f the proposed substitute by end-use	e. If possible, estimate the percentag	e of the market held by the (	DDS being replaced that will be	t
End-Use	(a) Year proposed substitute or technology will be available (or note currently available)	f (b) Anticipated first year annual production for end-use (kg)	(c) Years until maximum market penetration	(d) Maximum annual production at market penetration	(e) Anticipated market share at market penetration (%)	СВ
<ol> <li>Compatibility: Provide informatic corrosive to some materials).</li> </ol>	ion on and address any issues with materials co	mpatibility of the proposed substitut	te with metals and plastic with regar	ds to its use as a cleaning sol	vent (e.g., is the solvent	СВІ
Section B: Cleaning Solvent-	Specific Physical and Chemical Proper	rties				
					ſ	
<ol> <li>Physical and Chemical Propertie (a) Solubility</li> </ol>	es: Provide information on the physical and che	mical properties relevant to evaluati	ng the proposed substitute in solven	cleaning end-uses.	g/L	CBI
(b) Odor Threshold					8/-	
c) Dissociation Constant	Allian State of the state of th					
(d) Volatilization from soil (e) Volatilization from water						1.5
(f) pH						
(g) Vapor pressure @ 20 °C					atm	
h) Viscosity					Pa·s	
i) Henry's Law constant					specify units	
Section C: Flammability						
L. Flammability-Related Physical and uses.	and Chemical Properties. Provide information of	on the physical and chemical properti	ies relevant to evaluating the flamma	bility of the proposed substi	tute in solvent cleaning end-	СВІ
a) Heat of combustion					kJ/mol	
. Flammability Concerns and Miti	gation: Provide any information on flammabilit	y concerns and mitigation measures			]	СВІ
a) Detail any abatement technique nixtures:	es that are used to minimize the risks associate	d with flammable substances or				114
b) Additional information on flamn	mability concerns and mitigation measures:					
Cookley Dy European		100000000000000000000000000000000000000				
Section D: Exposure						

1. Exposure Media and Release Information

#### Part VI: CLEANING SOLVENT-SPECIFIC INFORMATION

(b) Indicate the physical form of chemicals at the time of handling/exposure (e.g., solid, liquid, gas).	<ul> <li>(c) If releases occur outdoors (e.g., outdoor air, water, land), provide information or estimates of the magnitude of release (ppm).</li> </ul>	
		СВІ
	handling/exposure (e.g., solid, liquid, gas).	(b) Indicate the physical form of chemicals at the time of handling/exposure (e.g., solid, liquid, gas).  (a) Identify the contact pathway (e.g., ingestion, inhalation, dermal).

2. Identify and explain the activities, duration of activities, and typical and maximum exposure concentrations in which worker exposure to the proposed substitute is expected to be the highest for each scenario in (a) through (b).

aximum potential for exposure	Typical	Maximum	Typical	Maximum
	hours/day	hours/day	ppm	ppm
	day/year	day/year	%	%
	hours/day	hours/day	ppm	ppm
	day/year	day/year	%	%
te (as air changes per hour [ACH]) during	use and disposal of the substitute.	the engine in consigning salahiyasi	tra (Marightpu baiero e	the resistance and resistance
t	e (as air changes per hour [ACH]) during	hours/day day/year hours/day	hours/day hours/day  day/year day/year  hours/day hours/day  day/year day/year	hours/day hours/day ppm  day/year day/year %  hours/day hours/day ppm  day/year day/year %

3. Describe disposal practices of used solvent (e.g., solvent collected and sent to a wastewater treatment facility, solvent collected and incinerated, recycling).

CBI

4. Provide information on training materials related to use and disposal.	Are any training materials attached?	CBI

		ON PROTECTION-SPECIFIC I					
Section A: Fire Suppres	ssion Use Profile						
1. Specific End-Use: Identify	each end-use and application (if appli	cable) for which you are seeking review an	d provide the requested informa	tion.			
Note: If more than one end-	use if listed, consider each end-use sep	parately throughout application.			was a second and a second a second and a second a second and a second a second and a second a second a second a second and		
End-Use	Application	(a) Mark all that apply	(b) ODS and other substances being replaced	(c) Weight and volume equivalence replacement ratio (lb: lb) Note: Calculate using method described in Instruction Manual	(d) Purpose of space in will be (e.g., engine room, m	used achinery space, cargo	СВІ
	Normally Occupied Areas						
Total Flooding Agents	Normally Unoccupied Areas						
Streaming Applications					Faller will the		27 13
		s for which you are applying. For example, lied (e.g., marine, aviation, data center)? V					СВІ
3. Technology Changes and	Costs: Describe any new equipment a	nd associated technology changes and cost		to use the proposed substitute.  (b) Capital costs associated with	(c) Changes in labor	(d) Ongoing	
End-Use	Application	compatibility issues w		proposed substitute or alternative process	and energy costs	operational costs	CBI
4. Production and Market S by this proposed substitute.	ihare: Provide estimated information o	n production of the proposed substitute b	y end-use. If possible, estimate t	he percentage of the market held b	y the ODS being replaced	or will prove because he	e trece
End-Use	Application	(a) Year proposed substitute or technology will be available (or note if currently available)	(b) Anticipated first year annual production for end-use (kg)	(c) Years until maximum market penetration	(d) Maximum annual production at market penetration	(e) Anticipated market share at market penetration (%)	СВІ
		on the charge size, associated room size, a		e rate for the proposed substitute i	n the end-use(s) specified	l. Note: If personal	
End-Use	Application	(a) Typical charge size (kg)	(b) Maximum charge size (kg)	(c) Typical room size (m³)	(d) Minimum room size (m³)	(e) Anticipated room air exchange rate (ACH)	СВІ
						(Neil)	
6. End-Use Specific Standard and/or equipment in the pro		rd-setting organizations (U.S. or ANSI/ISO)	or requirements set by other org	ganizations (e.g., IMO, FAA/ICAO) t	hat will evaluate the prop	osed substitute	
Underwriters Laboratories (L	Organization		(a) Standard N	lumber and Title	(b) Status (e.g., under	development, final)	CBI
	ociation (NFPA) (e.g., NFPA 2010)						
		ation Administration/International Civil					
L. Carlotte and Ca			A STATE OF THE PARTY OF THE PAR				
Section B: Fire Suppres	sion Agent Physical and Chemi	cal Properties			THE RESERVE OF THE PERSON NAMED IN		
<ol> <li>Physical and Chemical Pro (a) Vapor pressure @ 20 °C</li> </ol>	operties: Provide information on the pl	nysical and chemical properties relevant to	evaluating the proposed substitu	ute in fire suppression end-uses.	Sent Brown Line Brown	atm	CBI
(b) Heat of vaporization						kJ/mol J/K	
(c) Vapor Heat Capacity (d) Viscosity						Pa-s	
(e) Particle Size Distribution (only applies to non-gaseous	agents)						
(f) Extinguishing Concentration	on	de desdinal		Marketales	Might district	g/m³	
(g) Design Concentration	ither a cup burner in heptane or full sca				a of tamenta alternation of		
(Total flooding and gaseous of manufacturer recommendati		s defined by NFPA and actual (if it is likely t	o be higher) based on			g/m <sup>3</sup>	
2. Degradation Products. Pro	ovide information on the degradation p	products of the alternative following discharge	arge in a fire situation. Explain the	e conditions used in determining th	ese products (e.g., flame	temperature, time	СВІ
required to extinguish the fir	re, amount of O <sub>2</sub> present, combustible	matenal).					elpd Soe

. Inhalation Toxicity Studies: Provide an inhalation toxicity study at HOSH, ACGIH, or AIHA. For reference, please refer to the list of recon	nmended toxicity tests for this sector in t		unactare or by a in 11177 exposure i			_
	Inhalation Toxicity Study Name	(Alaghald Sart) 202	MATERIAL MODEL	Attached	17	C
						F
Genotoxicity Studies: Provide genotoxicity studies (e.g., Ames assa	we forward mutation assays cytogenetic	ic assaus) to determine the noten	tial for the agent to induce DNA da	ımağe		
Genotoxicity Studies: Provide genotoxicity studies (e.g., Ames assa	Genotoxicity Study Name	c assays) to determine the poten	tial for the agent to made only ac	Attached	17	1
						t
						_
In-kind Halon Alternatives (Halocarbons). Provide the following ac	dditional information for halocarbon ste Additional Information	aming agents or flooding agents	used in occupied spaces.	Attached	17	T (
ardiac Sensitization Study	Part I have	(Select				F
cute, sub-acute, and subchronic toxicity inhalation studies with rats	in addition to those already listed in Se	ction C, Number 1.			NAME OF TAXABLE	
Not-in-kind Halon Alternatives (Powdered Aerosols or Foam). Pro	vide the following additional informatio	n for foam streaming agents or p	owdered aerosol flooding agent us	sed in occupied spaces.  Attached	17	Т
cute toxicity inhalation study with rats (foam streaming agent)						
atic Acute toxicity inhalation study with rats at design application d	lensity (powdered aerosol flooding agen	t)			I A man	
cular irritation studies (Draize test)		Section of the section	and the second			1
ermal irritation study (powdered aerosols)						
<ul> <li>Powdered Aerosol Flooding Agents Used in Occupied Spaces. Prove f the physical properties and toxicity of the agent and visibility in the</li> </ul>		n regarding the use of powdered	aerosoi flooding agents in occupie	a spaces which requires spec	ial considerations	
a) Identify the likelihood that the fire extinguisher will accidentally	Identify the number of extinguishing devices (i.e., generators)  (c) Identify the discharge rate			<ul> <li>(d) Identify the length of time it takes for the particles to become distributed throughout ti</li> </ul>		
scharge (reported as the number of accidental discharges in 1 illion).				space and the particle size		12
mon).			device.	time.		
				(g) Identify the maximum e	gress time for	+
<ul> <li>i) Identify the settling rate of the particles, the mass median erodynamic diameter (MMAD) (μm) and concentration (mg/m3) of</li> </ul>	(f) Provide the composition of flooding			personnel from the space a	nd several	
e effluent released from the nozzle.	weight percentages of all effluent gase	es and particulates that may not l	pe filtered.	approaches to facilitate safe egress (e.g., training, installation guidelines).		
Telephone III I bearing resistant to 1		Similar Personal	and the state of the state of			
TO STATE OF THE PERSON NAMED IN CO.	Colored Total Services Services		THE EPHINE	SERVICE SERVICE		
ection D: Exposure						J.
Exposure Media and Release Information						
) Identify the media(s) to which the proposed substitute is released	(b) Indicate the physical form of pre- a	nd post-activation products at	(c) If releases occur outdoors (e.g.	outdoor air water land) p	rovide information	Τ
.g., indoor air, outdoor air, water, land).	the time of handling/exposure (e.g., so		or estimates of the magnitude of			1
W. Street, Str	Secretario de la compansión de la compan	- market and a second	his hard for	min Front		T
Identify engineering controls used to reduce or prevent releases	(-) (-)	(f) Describe any protective equi	pment and engineering controls	(g) Describe any protective	measures taken to	Γ
the environment (e.g., safety valves, gas scrubbers).	(e) Identify the contact pathway (e.g., ingestion, inhalation, dermal).		oggles, gloves, chemical hoods).	limit worker exposure (e.g., detection system).	ventilation,	12
A STATE OF THE STA				detection systemy.		+
	CATHOLICA CONTRACTOR					
						_
Identify and explain the activities, duration of activities, and typic	al and maximum exposure concentration	ons in which worker exposure to	the proposed substitute and/or a	ssociated equipment is expe	cted to be the	
ghest for each scenario in (a) and (b).		Duration	of Activity	Exposure Conce	ntration	Т
Scenario	Identify activities with typical and maximum potential for exposure	Typical	Maximum	Typical	Maximum	1
Manufacture and about a of audianous to a consulty of		hours/day	hours/day	ppm	ppm	+
Manufacture and charging of equipment (e.g., assembly of nerators)				PP.	%	+
		day/year	day/year	76		+
Installation and servicing (e.g., accidental discharge during		hours/day	hours/day	ppm	ppm	1
		day/year	day/year	04	%	
rvicing of fire suppression equipment)		uay/year	day, year	~		_

СВІ

4. Exposure during Use of Equipment
[a) Identify and explain the activity in which end-user exposure to the proposed substitute is expected to be the highest (e.g., discharge of fire suppression agent).

#### Part VII: FIRE SUPPRESSION AND EXPLOSION PROTECTION-SPECIFIC INFORMATION

(b) Identify who is anticipated to be exposed to the substitute at the	(c) Provide (1) typical and (2) maximum exposure concentration estimat	es (ppm). If monitoring data is available, please provide it as an attachment.	СВІ
end-use (e.g., consumers, workers)?	Typical	Maximum	
	ppm or %	ppm or %	
Is supporting documentation (e.g., personal monitoring data) attache	d?		-

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### Part VIII: AEROSOLS-SPECIFIC INFORMATION

Section A: Aerosol Use Profile					100	
Specific End-Use: Identify each end-use needed to replace it for each end use (i.e.		onably anticipated for the alternative. Identi	fy the ODS and other alternatives used	d in the end-use or application a	and the quantity of proposed sub-	stitute
End-Use	Application	(b) Mark all that apply	(c) ODS and other subst	ances being replaced	(d) Replacement Ratio (lb: lb)	СВ
	Consumer				LOSA DE LOS DELOS DE LOS DE LO	
Propellants	Technical	annual Englishment			AND SET OF LOWER PORT	a Consul
	Medical					
Solvents	Consumer Technical					-
	Medical					1
2. Additional End-Use Description: Please degreaser, medical adhesive spray, MDI)?		ich you are applying. For example, in what typ	pe of products will the substitute be us	sed (e.g., personal care, automo	otive, electrical contact cleaner,	СВІ
3. Technology Changes and Costs: Descr	the any new equipment technolog	y changes and associated costs that will be ne	ocessary in order to use the proposed	cubetitute		
End-Use	Application	(a) Technology changes, including material compatibility issues	(b) Capital costs associated with proposed substitute, alternative process, new equipment, and/or new materials	(c) Changes in labor and energy costs.	(d) Ongoing operational costs	СВІ
		arch year to person to the second to the second	new materials			
						1
. Production: Provide estimated informa	ation on production of the propose	ed substitute or equipment using the propose	d substitute by end-use.	to writeful land followings of your	Company of the second control of	т —
End-Use	Application	(a) Year proposed substitute or tech currently		(b) Anticipated first year ann	nual production for end-use (kg)	СВІ
						-
		Marine State of the State of th			Talana la como	
<ol> <li>Market Share: If possible, estimate the</li> </ol>	percentage of the market that is	anticipated to be captured by this proposed s	ubstitute.			_
End-Use	Application	(a) Years until maximum market penetration	(b) Maximum annual product	ion at market penetration	(c) Anticipated market share at market penetration (%)	СВІ
						and a
i. Application of Proposed Substitute. P	lease provide information on the a	mount of the substitute to be used per can a	nd associated aerosols can size anticip	ated for the proposed substitut	e in each proposed end-use.	
End-Use	Application	(a) Typical amount of substitute per	(b) Maximum amount of substitute	(c) Typical total weight of	(d) Maximum total weight of	СВІ
Eno-ose	Application	can (g)	per can (g)	aerosol can (g)	aerosol can (g)	Cor
			way the party of			
. Consumer Use: Please indicate whether	r the proposed substitute will be u	sed for consumer use. If yes, describe the ant	ticipated consumer applications.			CBI
3. End-Use Specific Standards: List any sta	andard-setting organizations (U.S.	or ANSI/ISO) that have or will evaluate the pr	oposed substitute and/or equipment	in the proposed end-use(s) and	identify the associated standard.	
				(1) (1)		COL
Standard-Setting	g Organization	(a) Standard Nu	mber and Title	(b) Status (e.g., und	er development, final)	CBI
				NAME OF TAXABLE PARTY.		
					a market on the barriers and a con-	
Section B: Aerosol-Specific Physic	cal and Chemical Properties					
Observation and Observation and the	dd-1-6	d &	the managed substitute in the			CBI
. Physical and Chemical Properties: Prov a) Solubility	rice information on the physical an	d chemical properties relevant to evaluating	ure proposed substitute in aerosol end	a-uses.	g/L	1
b) Viscosity				A SAME OF THE PARTY OF THE PART	Pas	
c) Vapor pressure @ 20 °C					atm	
21114		I // \	Attache	43		

#### Part VIII: AEROSOLS-SPECIFIC INFORMATION

tat Odes Theoretical						1
d) Odor Threshold e) Dissociation Constant					-	
f) Volatilization from soil						1
g) Volatilization from water		886 27 50				
h) pH						
i) Henry's Law constant		10.50		CONTRACTO (N. DR	specify units	
Section C: Flammability						
1. Flammability-Related Physical and Che	emical Properties. Provide information	on the physical and chemical properties r	elevant to evaluating the flammabili	ty of the proposed substitute in a	aerosol end-uses.	c
a) Heat of combustion					kJ/mol	
b) Critical temperature					°C	
(c) Critical Pressure					atm	
(d) Explosive Range (LEL/UEL)					ppm or %	1
2. Flammability Concerns and Mitigation	n: Provide any information on flammabili	ty concerns and mitigation measures.		1000		C
(a) Detail any abatement techniques that mixtures:	are used to minimize the risks associate	d with flammable substances or			the second little was	
(b) Additional information on flammability	y concerns and mitigation measures:					1
Section D. Evnosura						
Section D: Exposure  1. Exposure Media and Release Informat	tion					
Source of the Control	The second secon	A	als at the time of	(c) If releases occur outdoors (e.	.g., outdoor air, water, land),	
<ul><li>(a) Identify the media(s) to which the pro air, outdoor air, water, land).</li></ul>	posed substitute is released (e.g., indoor	(b) Indicate the physical form of chemic handling/exposure (e.g., solid, liquid, ga		provide information or estimate (ppm).	es of the magnitude of release	C
The latest termination in	PERSONAL PROPERTY AND PROPERTY					
(d) Identify engineering controls used to re environment (e.g., safety valves, gas scru		(e) Identify the contact pathway (e.g., ir	ngestion, inhalation, dermal).	(f) Describe any protective equi used to protect workers (e.g., go		0
2. Identify and explain the activities, dur	ration of activities, and typical and max	imum exposure concentrations in which	worker exposure to the proposed s			
through (c).			- 31 We - 1 - 122 X 1 - 1 - 1			_
Scenario	Identify activities with typical and	Duration of	Activity	Exposure Co	oncentration	c
Scenario	Identify activities with typical and maximum potential for exposure	Typical	Activity Maximum	Exposure Co Typical	oncentration Maximum	c
Scenario (a) Manufacture and filling of aerosol		Typical hours/day	Activity	Exposure Co Typical	oncentration Maximum	
Scenario (a) Manufacture and filling of aerosol		Typical hours/day day/year	Activity  Maximum  hours/day  day/year	Exposure Co Typical ppm %	Maximum ppm	1
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)		Typical hours/day	Activity  Maximum  hours/day	Exposure Co Typical ppm	oncentration  Maximum  ppm	1
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)		Typical hours/day day/year	Activity  Maximum  hours/day  day/year	Exposure Co Typical ppm %	Maximum ppm	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent		Typical hours/day day/year hours/day day/year hours/day hours/day	Activity  Maximum hours/day day/year hours/day day/year hours/day	Exposure Co Typical ppm % ppm % ppm % ppm	Maximum ppm % ppm % ppm ppm	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)	maximum potential for exposure	Typical hours/day day/year hours/day day/year	Activity  Maximum hours/day day/year hours/day day/year	Exposure Co Typical ppm % ppm % ppm % ppm	Maximum ppm % ppm % ppm ppm	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor	maximum potential for exposure	Typical hours/day day/year hours/day day/year hours/day day/year day/year	Maximum hours/day day/year hours/day day/year hours/day day/year	Exposure Co Typical ppm % ppm % ppm % ppm	Maximum ppm % ppm % ppm ppm	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor	maximum potential for exposure  nal monitoring data) attached?  er of aerosol cans a worker would (a) m	Typical hours/day day/year hours/day day/year hours/day day/year day/year	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year	Exposure Co Typical ppm % ppm % ppm % ppm %	Maximum ppm % ppm % ppm ppm	6
(a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and maximum number cans (e.g., persor 3. Estimate typical and e.g., persor 3. Estimat	maximum potential for exposure  all monitoring data) attached?  er of aerosol cans a worker would (a) mario	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year	Exposure Co Typical ppm % ppm % ppm % ppm %	Maximum ppm % ppm % ppm %	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum numbe Scen	maximum potential for exposure  all monitoring data) attached?  er of aerosol cans a worker would (a) mario	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year	Exposure Co Typical ppm % ppm % ppm % ppm %	Maximum ppm % ppm % ppm %	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  is supporting documentation (e.g., persor 3. Estimate typical and maximum number Scen  (a) Manufacture and filling of aerosol can  (b) Use of aerosol product	maximum potential for exposure  all monitoring data) attached?  er of aerosol cans a worker would (a) mario	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year	Exposure Co Typical ppm % ppm % ppm % ppm %	Maximum ppm % ppm % ppm %	6
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum numbb Scen  (a) Manufacture and filling of aerosol can  (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del	maximum potential for exposure  and monitoring data) attached?  er of aerosol cans a worker would (a) mario  is	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year anufacture and/or fill, (b) use, and (c) di Typical number o	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year spose per day. f cans per day	Exposure Co Typical ppm % ppm % ppm %  Appm %  Maximum numbe	Maximum ppm % ppm % ppm % ppm scale of cans per day	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum numb Scen  (a) Manufacture and filling of aerosol can  (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del	maximum potential for exposure  nal monitoring data) attached?  er of aerosol cans a worker would (a) mario  is	Typical hours/day day/year hours/day day/year hours/day day/year day/year anufacture and/or fill, (b) use, and (c) di Typical number o	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year spose per day. f cans per day	Exposure Co Typical ppm % ppm % ppm %  Appm %  Maximum numbe	Maximum ppm % ppm % ppm %	6
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum numbe Scen  (a) Manufacture and filling of aerosol can  (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del Scen  (a) Estimate the typical and maximum (a) del	maximum potential for exposure  nal monitoring data) attached?  er of aerosol cans a worker would (a) mario  is	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year anufacture and/or fill, (b) use, and (c) di Typical number o	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year spose per day. f cans per day	Exposure Co Typical ppm % ppm % ppm %  Appm %  Maximum numbe	Maximum ppm % ppm % ppm % ppm scale of cans per day	6
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum numbers are solvent)  (a) Manufacture and filling of aerosol can (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del Scen (a) Estimate the typical and maximum determs of grams/second	maximum potential for exposure  and monitoring data) attached?  er of aerosol cans a worker would (a) mario  is  livery rate and (b) release rate for the acario  elivery rate for the aerosol product, in	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year anufacture and/or fill, (b) use, and (c) di Typical number o	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year hours/day day/year	Exposure Co Typical ppm % ppm % ppm %  Appm %  Maximum numbe	moncentration  Maximum  ppm  %  ppm  %  ppm  %  ppm  y  er of cans per day  er of cans per day	C C
(a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum numbe Scen  (a) Manufacture and filling of aerosol can  (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del Scen  (a) Estimate the typical and maximum determs of grams/second  (b) Estimate the typical and maximum determs of grams/second	maximum potential for exposure  and monitoring data) attached?  er of aerosol cans a worker would (a) mario  is  livery rate and (b) release rate for the acario  elivery rate for the aerosol product, in	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year anufacture and/or fill, (b) use, and (c) di Typical number o	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year spose per day. f cans per day al grams/sec	Exposure Co Typical ppm % ppm % ppm %  Appm %  Maximum numbe	maximum ppm % ppm % ppm % ppm % ppm y per of cans per day prof cans per day grams/sec	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum number Scen (a) Manufacture and filling of aerosol can (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del Scen (a) Estimate the typical and maximum determs of grams/second  (b) Estimate the typical and maximum rei (2) percent of aerosol can.	maximum potential for exposure  all monitoring data) attached?  er of aerosol cans a worker would (a) mario  is  livery rate and (b) release rate for the actario  elivery rate for the aerosol product, in  lease rates in terms of (1) ppm and/or	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year anufacture and/or fill, (b) use, and (c) di Typical number o	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year hours/day day/year spose per day. f cans per day  al grams/sec ppm	Exposure Co Typical ppm % ppm % ppm %  Maximum numbe	maximum ppm % ppm % ppm % ppm % ppm y per of cans per day prof cans per day grams/sec	
(a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor Scen (a) Manufacture and filling of aerosol can (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del Scen (a) Estimate the typical and maximum determs of grams/second  (b) Estimate the typical and maximum (b) Estimate the typical and maximum determs of grams/second	maximum potential for exposure  all monitoring data) attached?  er of aerosol cans a worker would (a) mario  is  livery rate and (b) release rate for the actario  elivery rate for the aerosol product, in  lease rates in terms of (1) ppm and/or	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year anufacture and/or fill, (b) use, and (c) di Typical number o	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year hours/day day/year spose per day. f cans per day  al grams/sec ppm	Exposure Co Typical ppm % ppm % ppm %  Maximum numbe	maximum ppm % ppm % ppm % ppm % ppm y per of cans per day prof cans per day grams/sec	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  s supporting documentation (e.g., persor 3. Estimate typical and maximum numbe Scen  (a) Manufacture and filling of aerosol can  (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del Scen  (a) Estimate the typical and maximum determs of grams/second  (b) Estimate the typical and maximum determs of grams/second  (c) Disposal  5. For aerosol solvents (e.g., degreasers,	maximum potential for exposure  and monitoring data) attached?  er of aerosol cans a worker would (a) mario  is  livery rate and (b) release rate for the actario  elivery rate for the aerosol product, in  lease rates in terms of (1) ppm and/or  flux removers), describe disposal practi	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year anufacture and/or fill, (b) use, and (c) di Typical number o  erosol can. Typic	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year hours/day day/year spose per day. f cans per day grams/sec ppm % ed and sent to incinerator, recycling	Exposure Co Typical ppm % ppm % ppm %  Maximum numbe	maximum ppm % ppm % ppm % ppm % ppm y per of cans per day prof cans per day grams/sec	
Scenario  (a) Manufacture and filling of aerosol cans (e.g., filling cans)  (b) Use of aerosol product  (c) Disposal (e.g., collection of spent aerosol solvent)  Is supporting documentation (e.g., persor 3. Estimate typical and maximum numbb Scen  (a) Manufacture and filling of aerosol can  (b) Use of aerosol product  (c) Disposal  4. Estimate typical and maximum (a) del	maximum potential for exposure  all monitoring data) attached?  er of aerosol cans a worker would (a) mario  is  livery rate and (b) release rate for the acario  elivery rate for the aerosol product, in  lease rates in terms of (1) ppm and/or  flux removers), describe disposal practi	Typical hours/day day/year hours/day day/year hours/day day/year hours/day day/year anufacture and/or fill, (b) use, and (c) di Typical number o  erosol can. Typic	Activity  Maximum hours/day day/year hours/day day/year hours/day day/year hours/day day/year spose per day. f cans per day grams/sec ppm % ed and sent to incinerator, recycling	Exposure Co Typical ppm % ppm % ppm %  Maximum numbe  Maximum numbe	maximum ppm % ppm % ppm % ppm % ppm y per of cans per day prof cans per day grams/sec	

#### Part IX: STERILANTS-SPECIFIC INFORMATION

air, outdoor air, water, land).

environment (e.g., safety valves, gas scrubbers).

(d) Identify engineering controls used to reduce or prevent releases to the

Section A: Sterilants Use Pr	ofile					
1. Specific End-Use: Identify the O	DS and other alternatives used in the end-use o	r application and the quantity of prope	osed substitute needed to replace it fo	or each end use (i.e., the repla	cement ratio).	
End-Use	(a) O	DS and other substances being replac	ced	(b) Replacen	nent Ratio (lb: lb)	СВІ
Sterilant					and the second	
				Network (see protesse		
2. Additional End-Use Description	: Please describe the specific uses for which you	are applying. For example, provide in	formation on how the sterilant is app	lied (e.g., sterilization chambe	rs)?	СВІ
3. Technology Changes and Costs	: Describe any new equipment and use profiles :	and associated easts that will be associated			distanting or opposite	
End-Use	(a) Technology chang		(b) Capital costs associated with proposed substitute, alternative process, new equipment, and/or new materials	(c) Changes in labor and energy costs	(d) Ongoing operational costs	СВІ
4. Production and Market Share: It this proposed substitute.	Provide estimated information on production of	the proposed substitute by end-use.	If possible, estimate the percentage of	of the market held by the ODS	being replaced that will be capture	ed by
End-Use	(a) Year proposed substitute or technology will be available (or note if currently available)	(b) Anticipated first year annual production for end-use (kg)	(c) Years until maximum market penetration	(d) Maximum annual production at market penetration	(e) Anticipated market share at market penetration (%)	СВІ
<b>应</b> 其形式。在1400年						
					N 4005 Miles	
5. Application of Proposed Substitu	ute. Please provide information on the applicati	on of the substitute in the proposed e	nd-use(s).			
End-Use	(a) Provide information on the leak	t-tightness of the equipment (e.g., ma equipment)	eximum and typical leak rate of	(b) Anticipated room	air exchange rate (ACH)	СВІ
Section B: Sterilant-Specific	Physical and Chemical Properties					
1. Physical and Chemical Properties	s: Provide information on the physical and chem	nical properties relevant to evaluating	the proposed substitute in sterilization	in.		СВІ
(a) Solubility					g/L	
Section C: Flammability						3000
	nd Chemical Properties. Provide information of	n the physical and chemical properties	relevant to evaluating the flammabil	ity of the proposed substitute	when used in sterilization.	CDI
(a) Vapor pressure @ 20 °C					atm	CBI
(b) Heat of combustion (c) Explosive range (LEL/UEL)					kJ/mol	
(c) Explosive range (LELYOEL)					ppm or %	
	gation: Provide any information on flammability					СВІ
mixtures:	s that are used to minimize the risks associated	with flammable substances or				
(b) Additional information on flamm	nability concerns and mitigation measures:				15 15 15 17 17 17 18	
Section D: Exposure						
Exposure Media and Release Info	ormation					
	ne proposed substitute is released (e.g., indoor	(h) Indicate the physical form of -b	icals at the time of	c) If releases occur outdoors (e	e.g., outdoor air, water, land),	
(a) identify the media(s) to which th	re proposed substitute is released (e.g., indoor)	handling (expenses (= =!:-) !:			es of the magnitude of release	CBI

(e) Identify the contact pathway (e.g., ingestion, inhalation, dermal).

(ppm or percent of charge).

(f) Describe any protective equipment and engineering controls

used to protect workers (e.g., goggles, gloves, chemical hoods).

CBI

handling/exposure (e.g., solid, liquid, gas).

#### Part IX: STERILANTS-SPECIFIC INFORMATION

g) Describe disposal practices of used sterilant (e.g., sterilant collected and sent to a wastewater treatment facility, recycling).	CBI

2. Identify and explain the activities, duration of activities, and typical and maximum exposure concentrations in which worker exposure to the proposed substitute is expected to be the highest for each scenario in (a) through (c).

a) through (c).	Identify activities with typical and	Duration of Activi	ty	Exposure Concer	itration	
Scenario	maximum potential for exposure	Typical	Maximum	Typical	Maximum	СВІ
a) Manufacture and charging of		hours/day	hours/day	ppm	ppm	
equipment (e.g., filling)		day/year	day/year	%	%	1
(b) Use of sterilant or associated equipment containing steriliant		hours/day	hours/day	ppm	ppm	
		day/year	day/year	%	%	
c) Disposal (e.g., of sterilant or		hours/day	hours/day	ppm	ppm	
associated equipment containing the sterilant)		day/year	day/year	%	%	
s supporting documentation (e.g., perso	nal monitoring data) attached?					

raining Materials		disposal If the proposed substitute	is flammable, describe how these guid	elines	
Provide information on training m or from training for non-flammable	ateriais related to manuracture and e sterliants.	disposal. If the proposed substitute	is naminable, describe now these guid	Are any training	materials attached?
					Section And Philips (9%)
e: Information claimed as confid acted or removed.	ential should be placed in [brackets	i) and marked as CBI. If information	n is claimed as CBI, then a public version	on of the submission must be submitted	d with the bracketed information
					T miletal
					<u> </u>
	3				

### Part X: ADHESIVES, COATINGS, AND INKS-SPECIFIC INFORMATION

Santian A. Adhanium Santi	nes and labelies Beefile			eren mengan, ber pranse	stimpered to etheropic last	110-0
Section A: Adhesives, Coati	ngs, and inks use Profile					
1. Specific End-Use: Identify each	end-use that may be reasonably anticipated for	the alternative. Identify the ODS	and other alternatives used in the end	l-use or application and the qu	antity of proposed substitute need	ded to
replace it for each end use (i.e., the	e replacement ratio).					
The Control of Control	The Late Committee with the party of the		words and the second se			
End-Use	(a) OD:	S and Other Substances Being Rep	olaced	(b) Replacem	ent Ratio (lb: lb)	CBI
Adhesives						
Coatings Inks						
To be the second of the second	THE RESIDENCE OF THE PERSON OF	net relation aurent, as a w	wither transportate estimate (a)	AND OF SELECTION ASSESSED. THE PARTY NAMED IN	TO DESCRIPTION OF THE PERSON NAMED IN	2010
	<ul> <li>Please describe the specific use for which you marine); coatings (e.g., metal coatings, wood st</li> </ul>					СВІ
grabinalistis.		to proceed on the property of the se-		er spilari bes zedi king ta na	ngay angeletiga nga angeletiga	t end
3. Technology Changes and Costs:	: Describe any new equipment technology chan	ges and associated costs that will	be necessary in order to use the propo	osed substitute.		
			(b) Capital costs associated with			
End-Use	(a) Technology Changes to Use Altr Compatibilit		proposed substitute, alternative process, new equipment, and/or new materials	(c) Changes in labor and energy costs.	(d) Ongoing Operational costs	СВІ
				4-10-10-10-10-10-10-10-10-10-10-10-10-10-		199
4. Production and Market Share: I by this proposed substitute.	Provide estimated information on production o	f the proposed substitute by end-	use. If possible, estimate the percenta	ge of the market held by the O	DS being replaced that will be cap	tured
End-Use	(a) Year proposed substitute or technology will be available (or note if currently available)	(b) Anticipated first year annual production for end-use (kg)	(c) Years until maximum market penetration	(d) Maximum annual production at market penetration	(e) Anticipated market share at market penetration (%)	СВІ
						-
5. Application of Proposed Substit	tute. Please provide information on the charge :	size and associated dispenser size	(i.e., total weight of contents) anticipa	ted for the proposed substitute	in the proposed end-use(s).	
O TO THE PROPERTY OF THE PROPE						
	End-Use	(a) Typical amount per	(b) Maximum amount per	(c) Typical total weight of	(d) Maximum total weight of	СВІ
	190	dispenser (g or %)	dispenser (g or %)	dispenser (g)	dispenser (g)	
III. Indiana	and the second second			differential and the same of	main prints ( m naturalist )	
6. Consumer Use: Please indicate v	whether the proposed substitute will be used for	r consumer use. If yes, describe th	e anticipated consumer applications.			CBI
						_
Section B: Adhesives, Coatin	ngs, and Inks-Specific Physical and Che	emical Properties	A STATE OF THE PARTY OF THE PAR			
		***************************************			· · · · · · · · · · · · · · · · · · ·	
					3	СВІ
	es: Provide information on the physical and che	mical properties relevant to evalu	ating the proposed substitute in adhes	ives, coatings, and inks end-us		
(a) Solubility (b) Odor Threshold					g/L	
(c) Dissociation Constant						
(d) Volatilization from soil						
(e) Volatilization from water (f) pH						
(g) Vapor pressure @ 20 °C		10.414			atm	
(h) Viscosity		1.500			Pa·s	
(i) Henry's Law constant			HONORAL HENDE		specify units	
Section C: Flammability						-10
Flammability-Related Physical a inks end-uses.	and Chemical Properties. Provide information of	on the physical and chemical prop	erties relevant to evaluating the flamm	nability of the proposed substit	ute in adhesives, coatings, and	СВІ
(a) Vapor pressure @ 20°C		CHANGE OF THE STATE OF THE STAT			atm	
(b) Heat of combustion	000.00				kJ/mol	
(2) . reac or combustion						-

#### Part X: ADHESIVES, COATINGS, AND INKS-SPECIFIC INFORMATION

Detail any abstement techniques that are used to minimize the risks associated with flammable substances or structure.	c) Explosive Range (LEL/UEL)					% or ppm	
Detail any abstement techniques that are used to minimize the risk associated with flammable substances or stutures:    Additional information on flammability concerns and mitigation measures:	Flammability Concerns and Mitigation:	Provide any information on flammabilit	ty concerns and mitigation measur	res.			Г
Additional information on fiammability concerns and mitigation measures:    Exposure Media and Release information	) Detail any abatement techniques that a				NAMES AND ADDRESS OF	APTA DE DESCRIPTA	
Exposure  Exposure  Exposure Media and Release Information    Colff releases occur outdoors (n.g., outdoor air, water, land), provide information released (n.g., indoor (b) indicate the physical form of chemicals at the time of the proposed substitute is released (n.g., indoor (b) indicate the physical form of chemicals at the time of the provide information or estimates of the magnitude of release (n.g., indoor (n.g., policy, pass).    Identify and explain the activities, and typical and maximum exposure concentrations in which exposure to the proposed substitute is expected to be the highest for each scenario in (a) rough (c).    Scenario   Identify and explain the activities, duration of activities, and typical and maximum exposure concentrations in which exposure to the proposed substitute is expected to be the highest for each scenario in (a) rough (c).    Scenario   Identify activities with typical and maximum exposure concentrations in which exposure to the proposed substitute is expected to be the highest for each scenario in (a) rough (c).    Scenario   Identify activities with typical and maximum potential for exposure   Typical   Maximum   Typical   Typical							H
Descrite Media and Release Information   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf and land ling of disposing of protect workers (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf releases occur outdoors (e.g., outdoor air, water, land).   Colf and land ling of ling on the activities, and special and maximum exposure concentration (e.g., lands).   Colf and lands (e.g., lands	Additional information on flammability	concerns and mitigation measures:				A STATE OF THE PARTY.	_
Identify the media() to which the proposed substitute is released (e.g., index (e.g., index)   (b) indicate the physical form of chemicals at the time of handling/exposure (e.g., solid, liquid, gas).   (c) inferesses occur outdoon (e.g., outdoor air, water, land), provide information or estimates of the magnitude of release (ppm or percent of dispenser).   (dentify the contact pathway (e.g., ingestion, inhalation, dermal).   (f) Describe any protective equipment and engineering controls used to reduce or prevent releases to the vironment (e.g., safety valves, gas scrubbers).   (e) Identify the contact pathway (e.g., ingestion, inhalation, dermal).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers (e.g., goggles, gioves, chemical hoods).   (f) Describe any protective equipment and engineering controls used to protect workers	ction D: Exposure						
identify the media(s) to which the proposed substitute is released (e.g., indoor) (b) indicate the physical form of chemicals at the time of hadding/exposure (e.g., solid, liquid, g.s.).  (e) identify medical, solid, liquid, g.s.).  (b) identify the contact pathway (e.g., lingstion, inhalation, dermal).  (f) Describe any protective equipment and engineering controls used to reduce or prevent releases to the windown of activities, duration of activities, and typical and maximum exposure concentrations in which exposure to the proposed substitute is expected to be the highest for each scenario in (a) the contact pathway (e.g., lingstion, inhalation, dermal).  Scenario  Identify activities with typical and maximum exposure concentrations in which exposure to the proposed substitute is expected to be the highest for each scenario in (a) the contact pathway (e.g., lingstion, inhalation, dermal).  Scenario  Identify activities with typical and maximum exposure concentrations in which exposure to the proposed substitute is expected to be the highest for each scenario in (a) the contact pathway (e.g., ingestion, inhalation, dermal).  Scenario  Identify activities with typical and maximum exposure concentrations in which exposure to the proposed substitute is expected to be the highest for each scenario in (a) the contact pathway (e.g., ingestion, inhalation, dermal).  Scenario  Identify activities, autivities, autivities, and typical and maximum exposure concentrations in which exposure to the proposed substitute is expected to be the highest for each scenario in (a) the contact pathway (e.g., ingestion, inhalation, dermal).  Scenario  Identify the contact pathway (e.g., ingestion, inhalation, dermal).  Identify the contact pathway (e.g., ingestion	Exposure Media and Release Informati	on			(gitte)	unique test. Il 11 mai bork risan mi	
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duct day/year day/year % % Disposal (e.g., disposing of spent hours/day hours/day ppm ppm ppm ppm pensers) day/year day/year % %  Lestimate typical and maximum number of adhesives, coatings, and inks dispensers a worker would (a) manufacture and/or fill, (b) use, and (c) dispose per day.  Scenario Typical number of products per day Maximum number of products per day Maximum number of products per day possible of adhesives, coatings, and inks product possible of adhesives, coatings, and inks dispenser.  Scenario Typical Maximum number of cans per day grams/sec grams/second ppm ppm ppm ppm ppm ppm ppm ppm ppm pp	Use of adhesives, coatings, and inks		hours/day	hours/day	ppm	ppm	1
pensers) day/year day/year % %  upporting documentation (e.g., personal monitoring data) attached?  Estimate typical and maximum number of adhesives, coatings, and inks dispensers a worker would (a) manufacture and/or fill, (b) use, and (c) dispose per day.  Scenario Typical number of products per day Maximum number of products per day  Use of adhesives, coatings, and inks product  Disposal  Estimate typical and maximum (a) delivery rate and (b) release rate for the adhesives, coatings, and inks dispenser.  Scenario Typical Maximum number of cans per day  Estimate the typical and maximum delivery rate for the dispenser product, in ms of grams/second grams/sec  Estimate the typical and maximum delivery rate for the dispenser product, in ppm ppm  percent of dispenser.  %			day/year	day/year	%	%	
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77	Manufacture and filling  Use of adhesives, coatings, and inks pro Disposal  Estimate typical and maximum (a) delivations  Scena  Estimate the typical and maximum delivations	oduct very rate and (b) release rate for the ad rio	hesives, coatings, and inks dispen	nser. ypical	Maximum numbe	er of cans per day	
Provide information on training materials related to manufacture/filling and disposal of adhesives, coatings, and inks.  Are any training materials attached?	Manufacture and filling Use of adhesives, coatings, and inks pro Disposal  Estimate typical and maximum (a) deliv Scena Estimate the typical and maximum del ms of grams/second	very rate and (b) release rate for the ad rio ivery rate for the dispenser product, in	hesives, coatings, and inks dispen	iser. ypical grams/sec	Maximum numbe	er of cans per day grams/sec	
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### Part XI: TOBACCO EXPANSION-SPECIFIC INFORMATION

No additional	l information is	needed for this s	ector.		estimina i un sinverse de la
	39				2:

### Part XII: ADDITIONAL INFORMATION

Please provide any additional information in this section.	nother the second in matter the the base parties.

Part XIII: ATTACHMENTS

# United States ENVIRONMENTAL PROTECTION AGENCY Washington, DC 20460

### Part XIII: ATTACHMENTS

Identify attachments below.

Select (X) in the CBI box next to any attachment that contains information you claim as confidential. The public version of the submission form must include the attachment name/citation at a minimum. All claims of confidentiality must be substantiated in Part I.

#	Attachment Name/Citation	Associated Section of Information Notice (Part/Section/Question)	Number of Pages	СВІ
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Part XIV: CERTIFICATION

# United States ENVIRONMENTAL PROTECTION AGENCY Washington, DC 20460

### Part XIV: CERTIFICATION

certify to the best of my knowledge and belief that:	
<ol> <li>All information provided in this notice is complete and truthful as of the date of the submission.</li> </ol>	folialmente de CEV bye earlie en
2. I am submitting with this notice all test data in my possession or control and a description of all	other data known to or reasonably ascertainable by me.
3. If this is a submission of a new alternative, the company named in Part I, Question 1a of this not (a) intends to manufacture, formulate, import, market, or use a new alternative to a Class I or Class II of	lass II ozone-depleting substance which is identified in Part I,
4. The accuracy of the statements made in this notice reflects my best prediction of the anticipate and willful misinterpretation is subject to criminal penalty pursuant to section 113(c) of the Clean Aprinted copy of this signature page, with original signature, must be	Air Act and 18 U.S.C.§1001.
Signature of Authorized Official (Original Signature Required):	Date
Print Name and Title of Authorized Official:	Date
Signature of Agent (Where Applicable):	Date
Print Name and Title of Authorized Official:	Date

### Part XI: TOBACCO EXPANSION-SPECIFIC INFORMATION

o additional information is needed for this sector.	and the state of contractable thresholds you deliver an

### Part XII: ADDITIONAL INFORMATION

Please provide any additional information in this section.	Acades (18) out to the constitution of the translation of

#### Part XIII: ATTACHMENTS

Identify attachments below.

Select (X) in the CBI box next to any attachment that contains information you claim as confidential. The public version of the submission form must include the attachment name/citation at a minimum. All claims of confidentiality must be substantiated in Part I.

#	Attachment Name/Citation	Associated Section of Information Notice (Part/Section/Question)	Number of Pages	СВІ
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Part XIV: CERTIFICATION

## United States ENVIRONMENTAL PROTECTION AGENCY Washington, DC 20460

### **Part XIV: CERTIFICATION**

I certify to the best of my knowledge and belief that:	regive constructions in the two.  Let (X) in the CE have read by may standifferent that marriphys.
<ol> <li>All information provided in this notice is complete and truthful as of the date of the submission.</li> </ol>	his americalness to magnificipation committation will observe a
2. I am submitting with this notice all test data in my possession or control and a description of all	other data known to or reasonably ascertainable by me.
3. If this is a submission of a new alternative, the company named in Part I, Question 1a of this not	ice:
(a) intends to manufacture, formulate, import, market, or use a new alternative to a Class I or Cl	ass II ozone-depleting substance which is identified in Part I,
Section B, Question 2.	L Lishis identification Death Continue D. Ougettion
(b) seeks an acceptability determination on a new alternative(s) to a Class I or Class II ozone-deple	eting substance, which is identified in Part I, Section B, Question
2.	the party of the second
4. The accuracy of the statements made in this notice reflects my best prediction of the anticipate and willful misinterpretation is subject to criminal penalty pursuant to section 113(c) of the Clean Aprinted copy of this signature page, with original signature, must be	Air Act and 18 U.S.C.§1001.
Signature of Authorized Official (Original Signature Required):	Date
Print Name and Title of Authorized Official:	Date
Signature of Agent (Where Applicable):	Date
Print Name and Title of Authorized Official:	Date