Consumer Uses

Function	Application

b. If use data were claimed confidential in Section C, report a generic description of the proposed industrial and consumer use(s) of the chemical substance. This description should be as specific as possible without revealing confidential information.

Industrial Uses

Consumer Uses

3. Check below the populations that will be exposed to the new chemical substance during manufacture, processing or use, and estimate the maximum number of persons exposed during a one yeer period (see Support Document for ranges). Base your estimate on the maximum annual production and use rate anticipated within the first 5 years of production, and include all uses, processing and manufacturing operations.

Population	Exposure Yes	Exposure No	Numbers Exposed
Workers			
manufacturing	[ ]	[ ]	
processing	[ ]	[ ]	
Consumers (through use of a product(s))	[ ]	[ ]	
General Population (in the vicinity of manufacturing, processing operations)	[ ]	[ ]	

4. For each population group listed in question 3, describe the maximum level, duration and frequency of exposures expected.

5. Estimate the percent of the total manufactured volume, for the first 5 years of production that will be released to the environment under normal conditions of manufacture, processing, use and disposal.

Activity	Percent Release
Manufacturing/Processing Operations	
Industrial Disposal	
Consumer Use	
Consumer Disposal	

PLAINTIFF'S EXHIBIT KM-378

6. Test Data

List all data that are being submitted, described or cited as part of this notice in accordance with §720.23 of the premanufacture notification rules. Identify whether the data relate to the new chemical substance or to substances associated with the new chemical substance (e.g., byproducts, co-products, feedstocks, intermediates, degradation products). For all data that are submitted in accordance with 720.23(a), 720.20(j) and data that are submitted for any other tests you have performed concerning health and the environment, provide a brief abstract of the results.

[ ] Section E Schemetic Flow Diagram

For each manufacturing or processing operation you conduct, attach to this notice a schematic flow diagram. This diagram must graphically illustrate (1) each manufacturing step and the type of equipment involved; (2) the major components of the process streams at each step; (3) the points of environmental release to the air, water or land; and (4) the manufacturing and processing steps that account for release of the new chemical substance into the workplace. In addition, provide a mass balance around the entire process and list the major chemical reactions and significant side reactions which account for the chemicel substances listed in Section 8(4)(b) of Part II.

Section F

Provide a list of all attachments which are submitted with this form.

Part II

RISK ASSESSMENT DATA

All the data requested in this Part must be provided insofar as they are known to or reasonably ascertainable by the submitter. In cases where the requested data are unknown and not reasonably ascertainable enter NA (not available).

Section A Chemical Properties, Environmental Fate Characteristics, and Human and Ecological Effects Data

Under Section 5(d)(1)(B) and (C) of TSCA and 40 CFR 720.23, a manufacturer must submit all test data in his possession and control and a description of any other data which are reasonably ascertainable and are related to the effect of any manufacture, processing, distribution in commerce, use, or disposal of the chemical substance on health or the environment. The regulations detail which data must be submitted with the notice and which data may be referenced by a literature citation. In addition, the regulations prescribe formats for data concerning certain effects.

Table 1 lists what EPA considers to be the most important basic physical and chemical properties and potential effects that should be considered in an assessment of risk. This section of the form requires additional information concerning the relationship of the test data and information submitted with this form to the properties and effects listed in Table 1.

[ ] 1. Using Table 1, check the property(ies), characteristic(s) or effect(s) for which you have submitted: (1) data, (2) a description of data, and/or (3) a literature citation. Enter the name of the specific technique or methodology of those tests for which you have submitted data next to the property(ies), characteristic(s) or effect(s) to which each perteins. (A given test may be pertinent to two or more properties, characteristics or effects.)

[ ] 2. Discuss any conclusions, evaluations or assessments which you have made concerning the implications of the test data results or descriptions of other data you have submitted for each particular property, characteristic or effect.

[ ] 3. Have you evaluated the health or environmental risks associated with the manufacture, processing, distribution in commerce, use or disposal of the chemical substance?

Yes [ ] No [ ]

If yes, explain your evaluations.

[ ] 4. Have you evaluated the health or environmental risks presented by substances associated with the manufacture, processing, distribution in commerce, use, or disposal of the chemical substance (e.g., byproducts, co-products, feedstocks, intermediates, degradation products)?

Yes [ ] No [ ]

If yes, explain your evaluations.

[ ] 5. Have you evaluated whether the data you have submitted are sufficient to assess the risk associated with the property(ies), characteristics(s) or effect(s) to which they pertain?

Yes [ ] No [ ]

If yes, explain your evaluations. Provide references to any factors discussed in other sections of this notice.

If you have not reported any information for a particular property or effect listed in Table 1 because you believe that such information is either unnecessary or impractical, or if data you are submitting may indicate adverse health or environmental effects, you may wish to provide additional information or explanation to EPA. Section A of Part III is an optional section which provides a format for the presentation of such information.

Table 1

CONFIDENTIALITY: The information that is required to be entered in this table is limited to the identification of: (1) the physical/chemical properties and health and environmental effects for which data or a description of data have been submitted with this notice and (2) the specific technique or methodology used to develop such data. If you are asserting a claim of confidentiality for any of these data you must mark the attached document(s) which contain(s) the data in accordance with Section 720.40(b) of the Premanufacture Notification Rules.

PHYSICAL/CHEMICAL PROPERTIES

(1) data submitted
(2) description submitted
(3) literature citation

Property	(1)	(2)	(3)	Test Methodology or Technique
Spectra (ultraviolet, visible, infrared)	[ ]	[ ]	[ ]	_____
Density	[ ]	[ ]	[ ]	_____
Solubility in water	[ ]	[ ]	[ ]	_____
Melting point	[ ]	[ ]	[ ]	_____
Boiling point	[ ]	[ ]	[ ]	_____
Sublimation point	[ ]	[ ]	[ ]	_____
Vapor pressure	[ ]	[ ]	[ ]	_____
Dissociation constant	[ ]	[ ]	[ ]	_____
Particle size distribution	[ ]	[ ]	[ ]	_____

Table 1 continued

Property	(1)	(2)	(3)	Test Methodology or Technique
pH	[ ]	[ ]	[ ]	_____
Other physical/chemical or fate characteristics tests (specify)	[ ]	[ ]	[ ]	_____
Chemical Reactivity:				
Photochemical degradation	[ ]	[ ]	[ ]	_____
Hydrolysis	[ ]	[ ]	[ ]	_____
Chemical oxidation	[ ]	[ ]	[ ]	_____
Chemical reduction	[ ]	[ ]	[ ]	_____
Chemical incompatibility	[ ]	[ ]	[ ]	_____
Flammability	[ ]	[ ]	[ ]	_____
Explodability	[ ]	[ ]	[ ]	_____
Other	[ ]	[ ]	[ ]	_____
Biodegradation	[ ]	[ ]	[ ]	_____
Adsorption/desorption characteristics	[ ]	[ ]	[ ]	_____
Formation of persistent transformation products	[ ]	[ ]	[ ]	_____

Table 1 continued

HEALTH AND ENVIRONMENTAL EFFECTS DATA

(1) data submitted
(2) description submitted
(3) literature citation

Effect	(1)	(2)	(3)	Test Methodology or Technique
Acute animal effects	[ ]	[ ]	[ ]	_____
Genetic effects	[ ]	[ ]	[ ]	_____
Subchronic	[ ]	[ ]	[ ]	_____
Teratogenicity	[ ]	[ ]	[ ]	_____
Reproductive effects	[ ]	[ ]	[ ]	_____
Oncogenicity	[ ]	[ ]	[ ]	_____
Other health effects (chronic or latent animal effects)	[ ]	[ ]	[ ]	_____
Microbial effects	[ ]	[ ]	[ ]	_____
Aquatic invertebrate effects	[ ]	[ ]	[ ]	_____
Plant effects	[ ]	[ ]	[ ]	_____
Fish effects	[ ]	[ ]	[ ]	_____

Table 1 continued

Effect	(1)	(2)	(3)	Test Methodology or Technique
Bioconcentration	[ ]	[ ]	[ ]	_____
Community or ecosystem level effects	[ ]	[ ]	[ ]	_____
Other environmental effects* (specify)	[ ]	[ ]	[ ]	_____

*"Other environmental effects" refer to any direct or indirect effect on any environmental entity, process, function, or amenity not specifically included in another category. Example: weather modification, stratospheric ozone depletion, property damage, agricultural or silvicultural damage, or aesthetic effects.

Section B Exposure From Manufacture

This section must be completed for each site where the new chemical substance will be manufactured. If more than one manufacturing site will be used, attach supplementary sections.

[ ] Site Name _____

[ ] Address _____

_____

_____

1. Worker Exposure

[ ] a. Check the routes of exposure to the new chemical substance that may occur at the manufacturing site during normal operation. For each route checked, estimate the maximum number of workers exposed to the new chemical substance during a one-year time period in the first 5 years (see Support Document for ranges).

Exposure Route		Maximum Number Exposed
Inhalation	[ ]	
Ingestion	[ ]	
Skin contact	[ ]	

[ ] b. Describe the magnitude, duration and frequency of the exposures that may occur through ingestion or skin contact. Include a description of inhalation exposure if the information in question b is unknown and not reasonably ascertainable.

b. State the maximum level of the new chemical substance in the workplace air that workers are expected to be exposed to during normal operations in the first 5 years. If appropriate, include levels for the following types of exposure situations (1) direct exposure that occurs in close proximity to manufacturing equipment and/or from direct handling of the chemical substance and (2) exposure to ambient workplace concentrations that may be experienced by any worker normally in the general vicinity of the manufacturing operation.

		Levels	
		Direct	Ambient Workplace Air
[ ]	(i) Time-weighted average concentration in air for an 8-hour day, 40-hour work week schedule ([ ] ppm or [ ] mg/m^3)	_____	_____
[ ]	(ii) Peak concentration in air for 15 minutes ([ ] ppm or [ ] mg/m^3)	_____	_____

[ ] c. Explain how the workplace exposure estimates in questions a and b were derived.

[ ] d. Based on your analytical and instrument capabilities, what is the minimum level of the new chemical substance which you can detect in the workplace air? Describe the analytical and sampling techniques on which you have based the minimum detectable level.

[ ] e. Estimate the maximum number of workers exposed to the levels of the new chemical substance in the workplace air reported in question b during a one-year time period in the first 5 years as listed below (see Support Document for ranges). Estimate the maximum number of days per year and hours per day that any person may be exposed to the chemical substance.

Exposure	Maximum Number Exposed	Maximum Hours/Day	Maximum Days/year
[ ] Direct			
[ ] Ambient Workplace			

2. Environmental Release

a. Indicate, as required in Table 8, the maximum amount of the new chemical substance intended to be manufactured at the site to one significant figure (kg/yr), the hours of operation, the type of manufacturing operation and the estimated average and maximum environmental release rates and concentrations of the new chemical substances at the manufacturing site during normal operation. Enter the minimum level of the new chemical substance that you have analytical and sampling capability to detect in air emission streams and water effluent streams and describe your method of detection. Enter the specified stack parameters for each air process emission point listed. Place the following letters in the appropriate range estimates to indicate the range of the maximum and average release rates or concentration expected. Base your estimates on the year of maximum release during the first 5 years.

A = average discharge rate or average hourly concentration in air emission streams, average daily concentration in water effluent streams.

M = maximum discharge rate or concentration

TABLE 2

ENVIRONMENTAL RELEASE FROM MANUFACTURING SITES

Amount Manufactured kg/yr _____ Hours of Operation/Yr. _____

Type of Operation [ ] Batch [ ] continuous Hours/day _____

Type of Level		Range					
Air							
[ ] a.	estimated discharge to the air from an entire site (kg/hr)	<.1 [ ]	.1-1 [ ]	1-10 [ ]	10-100 [ ]	>100 [ ]	
[ ] b.	hourly concentration in process emission streams [ ] ppm [ ] mg/m_3	<10	10-100	100-1,000	1,000-10,000	10,000-100,000	>100,000
Stack	Stack Dia. / Stack height / Velocity / Temp						
[ ] 1.	_____ _____ _____ ___	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ] 2.	_____ _____ _____ ___	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ] 3.	_____ _____ _____ ___	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ] c.	minimum detectable level in process emission streams [ ] ppm [ ] mg/m^3	_____ Method of Detection: _____.					
WATER	[ ] POTW[1] [ ] Navigable Waterway or Tributary [ ] Other						
[ ] a.	estimated discharge rate in effluent streams (kg/day)	<1 [ ]	1-10 [ ]	10-100 [ ]	100-1,000 [ ]	>1,000 [ ]	
[ ] b.	daily concentration in effluent streams [ ] ppm [ ] ppb	<1	1-10	10-100	100-1,000	>1,000	
[ ]	1. _____ flow rate GPD[2]	[ ]	[ ]	[ ]	[ ]	[ ]	
[ ]	2. _____ flow rate GPD	[ ]	[ ]	[ ]	[ ]	[ ]	
[ ]	3. _____ flow rate GPD	[ ]	[ ]	[ ]	[ ]	[ ]	
[ ] c.	minimum detectable level in effluent streams [ ] ppm [ ] ppb	_____ Method of Detection: _____.					

1-POTW - Publicly Owned Treatment Works
2-GPD - gallons per day

b. Enter the name of the receiving water body(ies) or name and location of the POTW listed in Table 2 to which you will be discharging.

c. If the concentration levels listed in Table 2 result from treatment of the wastewater stream or use of air pollution control equipment, describe the type of treatment or control equipment, identify the air emission stream or water effluent stream it serves, and state the expected efficiency of the equipment (i.e., the percent of emission or effluent reduction).

d. Explain how the environmental release estimates in Table 2 were derived.

e. List any degradation products that may be formed as a result of the release of the new chemical substance to the environment for which you have knowledge of data indicating the potential for adverse health and/or environmental effects.

3. Disposal

[ ] a. Describe any material(s) known to you that are associated with the manufacture of the new chemical substance and which require disposal. Include the new chemical substance itself, byproducts, unreacted feedstocks, intermediates, or other chemical substances. Estimate the maximum amount to be disposed of in a one-year period in the first 5 years (see Support Document for ranges), the percent of the new chemical substance contained in the material(s) requiring disposal and indicate the anticipated method of disposal. Also enter the name of the commercial disposer (if applicable) and location of the site of disposal if known.

	Material Requiring Disposal	Amount (kg/yr)	Percent of New Chemical Substance	Anticipated Method of Disposal	Name and Site Location
[ ]					
[ ]					
[ ]					
[ ]					

[ ] b. If substances containing the new chemical substance that require disposal are incinerated or otherwise treated to destroy or remove the chemical substance, indicate the efficiency of this operation.

[ ] c. Attach to this notice a copy or reasonable facsimile of any warning statement, labels, labeling or instructions that will be provided by you to persons who may dispose of the new chemical substance in order to inform them of disposal procedures you recommend.

[ ] d. Estimate the maximum number of workers that may be exposed to the new chemical substance during normal disposal operations (see Support Document for ranges) and characterize the magnitude, duration and frequency of such exposures.

4. Byproducts, Co-products, Feedstocks and Intermediates

a. List any other substances (e.g. byproducts, co-products, feedstocks and intermediates) associated with the manufacture of the chemical substance that may be present in the workplace which (1) are listed on the NIOSH Registry of Toxic Effects of Chemical Substances, or (2) for which you have submitted data related to health effects. Estimate the maximum number of workers exposed to these substances at the industrial site in a one-year time period (see Support Document for ranges).

	Substance	CAS Reg. Number	NIOSH Registry	Data Submitted	Max. Number Exposed
[ ]			[ ]	[ ]	
[ ]			[ ]	[ ]	

b. Identify the byproducts, co-products, feedstocks and intermediates of manufacturing that may be reasonably anticipated to be in any water effluent stream or air emission stream based upon a consideration of process chemistry, pollution control safeguards and information acquired during R&D activities. As a minimum, you should identify and provide the information requested for substances (1) for which you have attached data concerning health or environmental effects or (2) which EPA

has indicated should be reported (see Support Document). Provide the CAS Registry Number, if known. Estimate the maximum amount of each substance released to the environment during the year of maximum production of the new chemical substance during the first 5 years (see Support Document for ranges). Check those substances for which you have reported data concerning health or environmental effects.

	Substance	Amount Released	CAS Registry No.	Data Submitted
[ ]	_____	_____	_____	[ ]
[ ]	_____	_____	_____	[ ]
[ ]	_____	_____	_____	[ ]

c. Using the concentration ranges for effluent streams in Table 2, estimate the concentration (ppm) of the substances (byproducts, co-products, feedstocks and intermediates) listed in question b that are expected to be in water effluent streams. Estimate the flow rate (GPD) associated with these concentrations.

	Substance	Conc. (ppm)	Flow Rate (GPD)
[ ]	_____	_____	_____
[ ]	_____	_____	_____
[ ]	_____	_____	_____

d. Using the ranges in Table 2 for discharge to the air, estimate the amount of the substances (byproducts, co-products, feedstocks and intermediates) listed in question b that will be emitted to the air (kg/hr) and estimate the maximum number of days per year that the releases will occur.

	Substance	Days/Year	Kg/hr
[ ]	_____	_____	_____
[ ]	_____	_____	_____
[ ]	_____	_____	_____

5. *Transport*

Complete this section if the new chemical substance will be transported.

a. Enter the DOT hazard class and shipping name of your chemical substance (if applicable).

[ ] Shipping Name _____

[ ] Hazard Class _____

The DOT criteria for hazardous materials are found in 49 CFR Section 171.8 and Part 173. For listing of proper shipping name see 49 CFR 172.101. For more information, call the U.S. Department of Transportation at (202) 426-9280.

[ ] b. Indicate the mode(s) of transport which you believe will be used for the new chemical substance.

Truck [ ]

Railcar [ ]

Barge/Vessel [ ]

Pipeline [ ]

Plane [ ]

Other, specify

For each mode of transport:

[ ] c. Describe the potential hazards to operators exposed to the new chemical substance during handling and/or loading operations.

[ ] d. Describe the potential hazards in the event of spill or accident. Indicate the maximum amount that may be transported in a single transportation unit (e.g., rail tank car, tank truck, etc.) and estimate the magnitude of a potential spill.

[ ] e. Describe any safeguards taken to prevent or reduce these hazards.

Section C. Exposure From Processing Operations

This section must be completed by the submitter for each site where the submitter or certain other persons (as specified in Section 720.20(e) of the Premanufacture Notification Rules) intend to process the new chemical substance. If more than one processing site will be used attach supplementary sections.

[ ] Site Name _____

[ ] Address _____

_____

_____

[ ] Technical Contact _____

The information in this section is for:

[ ] submitter's processing site [ ]

[ ] other person's processing site [ ]

1. Worker Exposure

a. Check the routes of exposure to the new chemical substance that may occur at the processing site during normal operations. For each route checked, estimate the maximum number of workers exposed to the new chemical substance during a one-year time period in the first 5 years (see Support Document for ranges).

	Exposure Route		Maximum Number Exposed
[ ]	Inhalation	[ ]	
[ ]	Ingestion	[ ]	
[ ]	Skin contact	[ ]	

[ ] Describe the magnitude, duration and frequency of the exposures that may occur through ingestion or skin contact. Include a description of inhalation exposures if the information in question b is unknown and not reasonably ascertainable.

b. State the maximum levels of the new chemical substance in the workplace air that workers are expected to be exposed to during normal operations at the processing site during the first 5 years. If appropriate, include levels for the following types of exposure situations: (1) direct exposure that occurs in close proximity to processing equipment and/or from direct handling of the chemical substance and (2) exposure to ambient workplace concentrations that may be experienced by any worker normally in the general vicinity of a processing operation.

		Levels	
		Direct	Ambient Workplace Air
[ ] (i)	Time weighted average concentration in air for an 8 hour day, 40 hour work week schedule ([ ] ppm or [ ] mg/m^3)		
[ ] (ii)	Peak concentration in air for 15 minutes ([ ] ppm or [ ] mg/m^3)		

[ ] c. Explain how the workplace exposure estimates in questions a and b were derived.

[ ] d. Based on your analytical and instrument capabilities enter the minimum level of the new chemical substance which you can detect in the workplace air. Describe the analytical and sampling techniques on which you have based the minimum detectable level.

[ ] e. Estimate the maximum number of workers exposed to the levels of the new chemical substance in the workplace air reported in question b during a one-year time period in the first 5 years as listed below (see Support Document for ranges). Estimate the maximum number of days per year and hours per day that any person may be exposed to the chemical substance.

Exposure	Maximum Number Exposed	Maximum Hours/day	Maximum Days/year
[ ] Direct			
[ ] Ambient Workplace			

f. Describe the use(s) of the new chemical substance at this site by function and application and estimate the amount devoted to each use to one significant figure.

	Uses		
	Function	Application	Amount
[ ]	_____	_____	_____
[ ]	_____	_____	_____
[ ]	_____	_____	_____

g. Describe any products produced by your processing operations which intentionally contain the chemical substance and are intended for use at industrial sites only.

2. Environmental Release

[ ] a. Indicate, as required in Table 3, the maximum amount of the new chemical substance intended to be processed at the site to one significant figure (kg/yr), the hours of operation, and the estimated average and maximum environmental release rates and concentrations of the chemical substance at the processing site during normal operation. Enter the minimum level of the new chemical substance that you have analytical and sampling capability to detect in air emission streams and water effluent streams and describe your method of detection. Enter the specified stack parameters for each air process emission point listed. Place the following letters in the appropriate range estimates to indicate the range of the maximum and average release rates or concentrations expected. Base your estimates on the year of maximum release during the first 5 years.

A - average discharge rate or average hourly concentration in air emission streams, average daily concentration in water effluent streams.

M - maximum discharge rate or concentration.

[ ] b. Enter the name of the receiving water body(ies) or name and location of the POTW listed in Table 3 to which you will be discharging.

[ ] c. If the concentration levels listed in Table 3 result from treatment of the wastewater stream or use of air pollution control equipment, describe the type of control equipment, identify the air emission stream or water effluent stream it serves, and state the expected efficiency of the equipment (i.e., the percent of emission or effluent reduction).

[ ] d. Explain how the environmental release estimates in Table 3 were derived.

3. Disposal

[ ] a. Describe any materials associated with the processing operation that contain the new chemical substance and require disposal. Estimate the maximum amount of each material to be disposed of in a one-year period during the first 5 years (see Support Document for ranges), the percent of the new chemical substance contained in the

TABLE 3

ENVIRONMENTAL RELEASE FROM PROCESS SITES

Amount Manufactured kg/yr _____ Hours of Operation/Yr. _____
Hours/day _____

Type of Level		Range					
Air							
[ ] a.	estimated discharge to the air from an entire site (kg/hr)	<.1 [ ]	.1-1 [ ]	1-10 [ ]	10-100 [ ]	>100 [ ]	
[ ] b.	hourly concentration in process emission streams [ ] ppm [ ] mg/m³	10	10-100	100-1,000	1,000-10,000	10,000-100,000	>100,000
	Stack / Stack Dia. / Stack Height / Velocity / Temp						
[ ]	1. _____ _____ _____ _____	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	2. _____ _____ _____ _____	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ]	3. _____ _____ _____ _____	[ ]	[ ]	[ ]	[ ]	[ ]	[ ]
[ ] c.	minimum detectable level in process emission streams [ ] ppm [ ] mg/m³	_____ Method of Detection: _____					
WATER	[ ] POTW[1] [ ] Navigable Waterway or Tributary [ ] Other						
[ ] a.	estimated discharge rate in effluent streams (kg/day)	<1 [ ]	1-10 [ ]	10-100 [ ]	100-1000 [ ]	>1000 [ ]	
[ ] b.	daily concentration in effluent streams [ ] ppm [ ] ppb	<1	1-10	10-100	100-1000	>1000	
[ ]	1. _____ flow rate [ ] GPD[2]	[ ]	[ ]	[ ]	[ ]	[ ]	
[ ]	2. _____ flow rate [ ] GPD	[ ]	[ ]	[ ]	[ ]	[ ]	
[ ]	3. _____ flow rate [ ] GPD	[ ]	[ ]	[ ]	[ ]	[ ]	
[ ] c.	minimum detectable level in effluent streams [ ] ppm [ ] ppb	_____ Method of Detection: _____					

1-POTW - Publicly Owned Treatment Works
2-GPD - gallons per day

materials requiring disposal and enter the anticipated method of disposal. Also enter the name of the commercial disposer (if applicable) and the location of the site of disposal if known.

	Material Requiring Disposal	Amount (kg/yr)	Percent of New Chemical Substance	Anticipated Method of Disposal	Name and Site Location
[ ]					
[ ]					
[ ]					

[ ] b. If substances containing the new chemical substance that require disposal are incinerated or otherwise treated to destroy or remove the chemical substance, indicate the efficiency of this removal.

[ ] c. Attach to this notice a copy or reasonable facsimile of any warning statement, labels, labeling or instructions that will be provided by you to persons who may dispose of the new chemical substance in order to inform them of disposal procedures you recommend.

[ ] d. Estimate the maximum number of workers that may be exposed to the new chemical substance during normal disposal operations and characterize the magnitude, duration, and frequency of such exposures (see Support Document for ranges).

Section D. Exposure From Consumer Use

Complete this section if you or certain other persons (as specified in 40 CFR 720.20(e)) will manufacture a product(s) that contains the new chemical substance and that will be distributed for use by the general population or for use in products to which the general population may be exposed. A separate section should be completed for products intended to be produced by the submitter and products the submitter believes other persons intend to produce.

The information in this section is for:

products produced by the submitter [ ]

products produced by other persons [ ]

[ ] 1. Using Table 4, list the anticipated products by function and application and the total amount of the new chemical substance devoted to each product to one significant figure. Estimate the consumer market population which will be exposed to the product (see Support Document for ranges), the route of exposure and the frequency and duration of exposure based on each use. For products which are mixtures indicate the maximum percent by weight of the chemical substance in the product. Check those products which are constructed or formulated so as to limit potential exposure.

[ ] 2. Describe the level of human exposure that may occur through use of products that contain the new chemical substance. Where possible provide quantitative estimates of exposure levels such as the maximum concentration of the substance in air during normal use.

[ ] 3. Describe how the estimates in question 2 were derived.

[ ] 4. For each article checked in Table 4 explain those aspects of its construction or formulation which will affect the potential for exposure to the new chemical substance.

[ ] 5. Attach to this notice a copy or reasonable facsimile of any hazard warning statement, labels, labeling or instructions which will be provided with each product regarding the prevention of adverse health and/or environmental effects upon use or disposal.

TABLE 4

CONSUMER EXPOSURE

	Product Function/ Application	Amount For each Use	Consumer Market Population for each use	Frequency of Exposure	Duration of Exposure	Exposure Route Through Use Inhal.	Ingest.	Derm.	% in formulated Mixture	Controlled Exposure Construction
[ ]	_____	_____	_____	_____	_____	[ ]	[ ]	[ ]	_____	[ ]
[ ]	_____	_____	_____	_____	_____	[ ]	[ ]	[ ]	_____	[ ]
[ ]	_____	_____	_____	_____	_____	[ ]	[ ]	[ ]	_____	[ ]

Part III

Risk Analysis and Optional Data

(Optional)

A reasonable evaluation of the health and environmental effects of a chemical substance requires basic data relating to the primary factors of health effects, ecological effects, chemical properties (transport and persistence), and exposure. Information on such factors is required in Part II of this form.

Other factors can affect the magnitude of human and environmental risk from chemicals or influence the analysis of risk. These additional factors include structure/activity relationships, engineered safeguards, industrial hygiene programs, and consideration of intended restrictions on chemical use. This part of the form (Part III) is optional and provides the form and manner in which data and information pertaining to these factors can be submitted to EPA. The submitter may complete any section or portion of a section in this Part. In addition to this part the submitter may attach any information which he believes EPA should consider in assessing this notice.

Section A Risk Analysis

[ ] 1. Describe your overall testing/evaluation scheme and discuss the scientific rationale underlying your scheme.

[ ] 2. If no data are submitted concerning a particular effect or property listed in Table 1 (pages 15 through 18 of Part II) explain why the development of additional data concerning such properties or effects are unnecessary for the chemical substance. In the absence of such data explain why you believe the information which you have submitted allows a reasoned evaluation of the health and environmental effects of the new chemical substance. Provide references to any mitigating factors discussed in the other sections of this notice (e.g., structure/activity relationships, safeguards, etc.).

[ ] 3. For each of the properties, characteristics, or effects listed in Table 1 (pages 15 through 18 of Part II), if any of the applicable data indicate a potential for adverse health or environmental risk, alone or in combination with other data, discuss any information which you feel mitigates such risk.

[ ] 4. If testing for any effect or property listed in Table 1 was not done because of economic impracticality, explain why you reached such a conclusion.

[ ] 5. One common approach utilized in risk assessment methodology consists of identifying conditions of maximum exposure or susceptible segments of the population in order to identify maximum potential for risk. You may assist EPA by providing estimates of maximum exposure (considering or speculating upon new uses, expanded production, accidental exposure, misuse of the chemical, etc.) or identifying those uses that affect the most susceptible segments of the population (e.g., children, the infirm, etc.). Further, you may wish to provide EPA with your own analysis of risk under these same conditions.

Section B Structure/Activity Relationships

[ ] 1. Have you attached a description of any data or information to this notice concerning properties or effects of chemical substances or classes of substances that are related to the new chemical substance on the basis of structural similarity, chemical reactivity or other characteristics and that relate to an evaluation of the risks posed by the new chemical substance? [ ] Yes [ ] No

If yes, identify the related chemical(s) and explain what makes these related chemicals similar (e.g. functional group, characteristic chemical reactivity, other chemical or physical property).

[ ] 2. Explain why you concluded that this similarity presents a valid basis for evaluating the activity of the new chemical substance.

[ ] 3. Explain how properties or effects of these related chemical substances affect the risk associated with the new chemical substance.

[ ] 4. Are there other structurally related chemical substances which you have not discussed here? [ ] Yes [ ] No

If yes, explain why.

Section C Industrial Hygiene

The establishment of safe working conditions and industrial hygiene practices can result in substantial reductions in chemical concentrations and worker exposure in the workplace environment. Prudence dictates the use of such practices for any chemical, but in the case of toxic chemical substances and substances for which there are limited health effects data, the establishment of sound industrial hygiene programs is one essential way of reducing risk to workers from chemical hazards. This section permits a response by the manufacturer in cases where an industrial hygiene program is thought to be an important control strategy which should be considered in EPA's risk assessment. If more than one manufacturing site will be used, attach supplementary forms.

[ ] Site Name _____

[ ] Address _____

_____

_____

1. Industrial Hygiene Considerations

Will you have an industrial hygiene program?

[ ] Yes [ ] No

If "yes",

[ ] a. Will you employ a full or part-time hygienist? [ ] Yes [ ] No

[ ] b. Will you provide periodic instruction and training of workers on chemical hazards, and proper use of personal protective equipment? [ ] Yes [ ] No

[ ] c. Will you provide information to workers on the chemical identity and toxicity at their work stations? [ ] Yes [ ] No

[ ] d. Will you post workplace instructions for workers on how to handle and cope with chemical hazards routinely and in emergencies?
[ ] Yes [ ] No

[ ] e. Will you establish procedures and personnel responsibilities for chemical emergency evacuations?
[ ] Yes [ ] No

[ ] f. Will you have a respiratory protection program?
[ ] Yes [ ] No

[ ] g. Is knowledge of the chemical hazards in your plant communicated to local fire/police authorities?
[ ] Yes [ ] No

[ ] h. Will periodic inspections of production facilities be performed by an industrial hygienist or other knowledgeable personnel?
[ ] Yes [ ] No

2. Control of Worker Exposure

[ ] a. Have you established an action level (air concentration level, particulate level, etc.) for the new chemical substance or other chemical substances associated with its manufacture for purposes of worker protection?
[ ] Yes [ ] No

b. If 'yes' to question (a), identify the chemical substances and levels.

	Chemical	Concentration
[ ]	_____	_____
[ ]	_____	_____
[ ]	_____	_____

c. Will you monitor to assure that concentration levels for the new chemical substance or other chemicals identified in question (b) are not exceeded?
[ ] Yes [ ] No

If yes, provide the information in the table below.

	Chemical	Sampling Frequency	Instrument or Analytical Procedure	Monitoring Locations
[ ]	_____	_____	_____	_____
[ ]	_____	_____	_____	_____
[ ]	_____	_____	_____	_____

d. Check what procedures will be taken when an action level is exceeded.

[ ]	1. Process shutdown pending correction.	[ ]
[ ]	2. Protective equipment used pending correction.	[ ]
[ ]	3. Alarm and personnel evacuation from plant.	[ ]
[ ]	4. Corrections made during normal plant operations.	[ ]
[ ]	5. Increased monitoring and medical surveillance activities.	[ ]
[ ]	6. Other, describe:	

e. Based on your experience or projections estimate the frequency of incidents that may occur during a one-year time period which would result in worker exposure at or above the action levels stated in question 2b of this section. Estimate the maximum number of workers exposed.

	Chemical	Frequency	Number Exposed
[ ]	_____	_____	_____
[ ]	_____	_____	_____
[ ]	_____	_____	_____

] f. Characterize the duration and magnitude of the potential exposures you have reported in question e.

3. Worker Health Considerations

[ ] a. Will you establish a medical program with periodic medical examinations?

[ ] Yes [ ] No

[ ] b. If yes, will employee participation in the program be mandatory?

[ ] Yes [ ] No

[ ] c. How will medical examinations be used to detect or prevent occurrence of health effects related to the new chemical substance?

4. Other Considerations

[ ] a. Are there any other industrial hygiene considerations that EPA should be made aware of in its assessment of risk associated with production of the new chemical substance? For example, describe the relationship between action levels and risk to human health.

Section D Engineered Safeguards

The use of engineered safeguards can result in substantial reduction in worker exposure and environmental release of the chemical substance. Prudence dictates the use of these safeguards for any chemical, but in the case of toxic chemical substances and substances for which there are limited health and environmental effects data, these safeguards can mitigate the risk associated with a chemical. This section permits a response by the manufacturer in cases where engineered safeguards are considered to be important input into EPA's risk assessment. If more than one manufacturing site will be used, attach supplementary forms.

[ ] Site Name _____

[ ] Address _____

_____

_____

1. Workplace Safeguards

a. Check the safeguards that will be used to prevent or control worker exposure to the new chemical substance at the manufacturing site.

	Safeguards	
[ ]	(i) Production plant design features and maintenance procedures for production equipment which will contain the substance.	[ ]
[ ]	(ii) Explicit manufacturing, processing, and handling procedures concerning prevention of worker exposure.	[ ]
[ ]	(iii) Local ventilation of work area and/or selected activities.	[ ]
[ ]	(iv) Other, explain.	[ ]

[ ] b. Provide a flowchart depicting each safeguard's location in the manufacturing operation.

[ ] c. Describe the function of each safeguard.

[ ] d. Describe the efficiency and relative contribution to the reduction in exposure associated with each safeguard under normal operating conditions.

[ ] e. Describe how production or process equipment malfunctions may result in the release of the new chemical substance. Include instrumentation, mechanical and/or electrical failures.

[ ] f. Based on your experience, describe the potential frequency of manufacturing/processing accidents and the resultant worker exposure. If you have completed question 2e and 2f in Section C of this part, omit this question.

[ ] g. How are releases due to production or process malfunctions controlled? Include a description of redundant controls and emergency procedures. Describe what is done with that portion of the chemical substance that has been released.

2. Environmental Release Safeguards

a. Check the safeguards that will be used to prevent or control environmental release of the new chemical substance at the manufacturing site.

[ ] (i) Processes are designed to prevent environmental release of the new chemical substance. [ ]

[ ] (ii) Water and/or air pollution control equipment will control releases. [ ]

[ ] (iii) Production plant design features and maintenance procedures for production equipment will contain the new chemical substance to control fugitive emissions. [ ]

[ ] (iv) Operating procedures limit the frequency, concentration and/or amount of air and water releases. [ ]

[ ] (v) Emergency control procedures and equipment will contain spills due to process upsets or accidents. [ ]

[ ] (vi) Other, explain. [ ]

[ ] b. Describe the function of each safeguard.

[ ] c. Describe the efficiency and relative contribution to the reduction in release associated with each safeguard under normal operation conditions.

[ ] d. Discuss the possible adverse effects if the equipment malfunctions. Describe redundant controls and emergency procedures that are used to prevent or control release of the chemical substance in the event of malfunctions.

[ ] e. Describe the emergency procedures and redundant controls that are used to prevent or control release of the chemical substance during startups, shutdowns, and in the event of an accident.

[ ] f. Describe how the new chemical substance is disposed of during maintenance procedures.

[ ] g. Will quality control sampling of production or processing streams containing the new chemical substance result in direct environmental release of the substance?

[ ] Yes [ ] No

If yes,

(a) Are the samples continuous, and

(b) Estimate the quantity of the release during a one-year time period.

[ ] b. Will measurement of any process parameter result in direct environmental release of the new chemical substance?

[ ] Yes [ ] No

If yes,

(a) Are the measurements continuous, and

(b) Estimate the quantity of the release during a one-year time period.

3. Environmental Release Action Levels

a. Will you establish action levels for plant releases to air, water, or land for new chemical substances?

[ ] Yes [ ] No

For other process related chemicals?

[ ] Yes [ ] No

b. If yes to (a), identify chemical, media, concentration level, and release rate, as appropriate.

	Chemical	Media land, air, water	Concentration Level	Rate
[ ]				
[ ]				
[ ]				

c. Will you monitor to assure that action levels are not exceeded?

[ ] Yes [ ] No

If yes, provide the information in the table below.

	Chemical	Sampling Frequency	Instrument/or Analytical Procedure	Media
[ ]				
[ ]				
[ ]				

[ ] d. What procedures are taken when action levels are exceeded?

[ ] e. What is the frequency, maximum concentration, maximum release rate, and duration of periods when action levels are exceeded?

	Chemical	Frequency	Duration	Maximum Conc.	Maximum Release Rate
[ ]					
[ ]					
[ ]					

Section E Industrial Process and Use Restriction Data

Many chemical substances are manufactured for exclusive and highly specialized industrial use and consumption (e.g., chemical intermediates and catalysts). Other chemical substances are manufactured and processed under the exclusive control of the manufacturer. Because of the exclusive use and control within the industrial environment, these types of chemicals can present different risk considerations than other chemicals that are utilized by many processors and manufacturers for a diverse variety of industrial and consumer products and uses. The purpose of this section is to assist the manufacturer of highly specialized or industrially controlled chemicals in reporting any unique risk considerations. Complete this section only if your new chemical substance will be limited to exclusive and specialized industrial uses.

1. Describe those exclusive specialized industrial uses for which the new chemical substance will be used.

[ ] _____

[ ] _____

[ ] _____

[ ] 2. Explain any factor concerning restricted use or exclusive control of the chemical substance which is not addressed in other sections of this form and which should be considered by EPA in assessing the risk associated with the substance.

Section F Process Chemistry

[ ] An understanding of the actual process chemistry of the chemical substance may permit a conclusion that impurity or byproduct concentrations can be kept at safe levels by appropriate control of the process conditions. You may wish to provide information on the process chemistry in order to substantiate such a conclusion. For instance, the particular reaction may have been chosen so as to preclude the formation of toxic impurities or byproducts which would have been produced via an alternate route. Similarly, the dependence of the course of reaction upon temperature, pressure, or solvent may allow the minimization of toxic impurities through control of the reaction conditions. Also, direct monitoring of the composition of the reaction mixture for impurity concentrations may provide additional safeguards. Provide any information about the process chemistry which you believe will assist EPA in evaluating your submission.

Section G Non-Risk Factors: Economic and Non-Economic Benefits

The economic significance and benefits associated with a chemical substance are relevant to determining whether the risks associated with the manufacture, processing, distribution, use, and disposal of the chemical substance are unreasonable. This section assists the manufacturer in providing his assessment of certain economic and benefit factors that he believes EPA should consider when evaluating the chemical's risks and benefits.

1. Economic changes resulting from availability/production of the new chemical.

[ ] a. Estimate the total five-year projected gross market value of the new chemical.

[ ] b. What effect will production of the new chemical have on the price of any existing feedstocks, raw materials, intermediates, end-products or non-chemical products? Identify any affected products and indicate the expected effect by means of the appropriate price change symbol.

	Affected Product	Price Change	Current Price
[ ]	1.	[ ]	[ ]
[ ]	2.	[ ]	[ ]
[ ]	3.	[ ]	[ ]

Key: 1 = Decrease in excess of 25%
2 = Decrease between 10% and 25%
3 = Some decrease but less than 10%
4 = No change
5 = Some increase but less than 10%
6 = Increase between 10% and 25%
7 = Increase in excess of 25%

c. What effect will production of the new chemical have on the volume of production of any existing feedstocks, raw materials, intermediates, end-products or non-chemical products? Identify any affected products and indicate the expected effect by means of the appropriate production change symbol.

	Affected Product	Production Change
[ ]	1.	[ ]
[ ]	2.	[ ]
[ ]	3.	[ ]

Key: 1 = Decrease in excess of 50,000 pounds
2 = Decrease between 10,000 and 50,000 pounds
3 = Some decrease but less than 10,000 pounds
4 = No change
5 = Some increase but less than 10,000 pounds
6 = Increase between 10,000 and 50,000 pounds
7 = Increase in excess of 50,000 pounds

d. What employment effects will result from production of the new chemical? Indicate the source and magnitude of any employment change below, using the appropriate symbol.

	Affected Product	Employment Change
[ ]	A. Production of the chemical itself	[ ]
[ ]	B. Production of any raw materials, feedstocks, intermediates, end products or non-chemical products (Identify below)	
[ ]	_____	[ ]
[ ]	_____	[ ]
[ ]	_____	[ ]

Key: 1 = Decrease in excess of 25 people
2 = Decrease between 10 and 25 people
3 = Some decrease but less than 10 people
4 = No change
5 = Increase but less than 10 people
6 = Increase between 10 and 25 people
7 = Increase in excess of 25 people

[ ] e. Describe any significant regional or community effects resulting from production of the new chemical, such as a significant reduction in the rate of unemployment.

f. What effects on the balance of trade will result from production of the new chemical? Indicate the source and magnitude of export and import changes by the appropriate symbol.

Source		Changes in Exports	Changes in Imports
[ ] A.	Production of the new chemical itself	[ ]	[ ]
B.	Production of any feedstocks, raw materials, intermediates, and products or non-chemical products (Identify below)		
[ ]	_____	[ ]	[ ]
[ ]	_____	[ ]	[ ]
[ ]	_____	[ ]	[ ]

Key: 1 = Decrease in excess of $25 million annually
2 = Decrease between $10 million and $25 million annually
3 = Some decrease but less than $10 million annually
4 = No change
5 = Some increase but less than $10 million annually
6 = Increase between $10 million and $25 million annually
7 = Increase in excess of $25 million annually

g. Are any plant and equipment outlays planned in conjunction with production of the new chemical? Estimate the timing of investment, the amount of investment, and the production capacity created.

Investment

Year	Amount	Production Capacity Created
[ ]		

[ ] h. What are the (unique) properties of this chemical that will be the basis of its value in the marketplace? (Include such factors as contribution to reliability or durability of intermediates or end products, increases in productivity, convenience factors, and aesthetic factors).

[ ] i. What existing substitute products or processes (if any) have any of the properties listed in 1h? In what ways do the properties of the new chemical exceed those of existing substitutes?

2. Non-economic benefits resulting from production of the new chemical.

[ ] a. Are there any uses for the new chemical which contribute directly or indirectly to human health or safety?

[ ] b. What existing substitute products or processes (if any) have any of the uses listed in 2a? In what ways do the use properties of the new chemical exceed those of existing substitutes?

[ ] c. Are there any uses for the new chemical which result in environmental benefits or conservation of energy or natural resources?

[ ] d. What existing substitute products or processes (if any) have any of the uses listed in 2c? In what ways do the use properties of the new chemical exceed those of existing substitutes?

PREMANUFACTURE NOTICE FOR IMPORTERS

CERTIFICATION STATEMENT: I hereby certify that, to the best of my knowledge and belief: (1) I intend to import for a commercial purpose the chemical substance for which this notice is submitted, other than in small quantities for research and development, and that the substance is not excluded from premanufacture notification (40 CFR 720.13); (2) All information entered on the Premanufacture Notice For Importers Form is complete and truthful as of the date of submittal; and (3) I am submitting with this form all test data in my possession or control concerning effects of the substance on health or the environment and a description of any other data known to or reasonably ascertainable by me, in accordance with 40 CFR 720.23. I agree to permit access to, and the copying of, records by a duly authorized representative of the EPA Administrator in accordance with the Toxic Substances Control Act and any regulations issued thereunder, to document any information reported in this form.

Signature of Authorized Official _____

Date _____

When completed, send this notice to:

Document Control Officer
Office of Toxic Substances
TS-793
U.S.E.P.A.
401 M Street, S.W.
Washington, D.C. 20460

CONFIDENTIALITY INSTRUCTIONS: If you are asserting a claim of confidentiality for any data or information contained in this notice you should place a check in the box in the left hand margin immediately adjacent to the data or information entry. If you do not assert a claim of confidentiality on this form at the time of submission of the information, EPA may make the information public without further notice to you. Claims of confidentiality must be made in accordance with 40 CFR 720, Subpart E. Confidentiality claims related to chemical identity or health and safety data must be substantiated in accordance with 40 CFR 720.40(c).

FOR EPA USE ONLY

Date of receipt _____

GENERAL INSTRUCTIONS

These instructions are intended to assist the submitter of a premanufacture notice in the use of the following forms:

Premanufacture Notice Form for Importers
Foreign Manufacturer/Supplier Form
Processing and Consumer Use Form

The submitter must complete the mandatory parts of the Premanufacture Notice Form to the extent the information required is known to or reasonably ascertainable by him. In addition, the submitter must contact certain other persons and request them to complete the Foreign Manufacturer/Supplier Form and the Processing and Consumer Use Form as discussed below.

Premanufacture Notice Form for Importers

The Premanufacture Notice Form consists of the three parts listed below. Each part consists of two or more sections.

Part I - General Information

Part II - Risk Assessment Data

Part III - Risk Analysis and Optional Data

All sections of Parts I and II must be completed by the submitter as appropriate in accordance with Section 720.20 of the Premanufacture Notification Rules. The submitter must complete Section B of Part II for each site where he will process the new chemical substance in the United States and Section C of Part II if he intends to produce consumer products that contain the new chemical substance. In addition, the submitter must complete Section B of Part II for processing operations which will be conducted by other persons and Section C of Part II if other persons will produce consumer products that contain the new chemical substance.

The Premanufacture Notice Rules do not require the submission of Part III. This part, or selected sections, may be completed at the discretion of the submitter.

In completing Parts I and II, the submitter must provide all of the information and data requested that are known to or reasonably ascertainable by him. Thus he must answer all questions to the best of his ability, including reasonable estimates where he does not know with factual certainty the answers to particular questions. In cases where the submitter cannot provide a reasonable estimate (i.e., the information is unknown and is not reasonably ascertainable), he should enter NA (not available).

Foreign Manufacturer/Supplier Form

In accordance with 40 CFR 720.21(c) the submitter must contact the foreign manufacturer(s) and supplier(s) of the new chemical substance, and request them to provide all test data in their possession or control which are related to the effects of the substance on health or the environment (in accordance with 40 CFR 720.23) and complete the Foreign Manufacturer/Supplier Form. The submitter must send them copies of this form and state that the recipient is not under a legal obligation to provide the requested information. He must also offer them the option either to provide the requested information to him for inclusion in his notice, or to provide the information directly to EPA. The submitter must certify below his compliance with these procedures, and provide a summary of those whom he contacted and the disposition of their responses.

For further information on these procedures see 40 CFR 720.21(c).

CERTIFICATION

I hereby certify that I have contacted the persons listed below and requested them to complete the Foreign Manufacturer/Supplier Form in accordance with the requirements of 40 CFR 720.21.

Signature of Authorized Official _____

List those persons you have contacted (if appropriate) and check if you have attached their responses to this notice, if you expect them to send information directly to EPA or if you do not know whether the information will be supplied.

Name	Address	Response Attached	Response To Be Sent To EPA	Response Unknown
_____	_____	[ ]	[ ]	[ ]
_____	_____	[ ]	[ ]	[ ]
_____	_____	[ ]	[ ]	[ ]
_____	_____	[ ]	[ ]	[ ]

Processing and Consumer Use Form

In accordance with 40 CFR 720.20(d) the submitter must contact certain other persons and request them to complete the Processing and Consumer Use Form concerning their own processing and use of the new chemical substance. He must send them copies of this form and state that the recipient is not under a legal obligation to provide the requested information. He must also offer them the option either to provide the requested information to him for inclusion in his notice, or to provide the information directly to EPA. The submitter must certify below his compliance with these procedures, and provide a summary of those whom he contacted and the disposition of their responses.

For further information on these procedures, including the persons that must be contacted and exceptions to these requirements, see 40 CFR 720.20(e).

CERTIFICATION

I hereby certify that I have contacted the persons listed below and requested them to complete the Processing and Consumer Use Form in accordance with the requirements of 40 CFR 720.20(e). If no persons were contacted or if a representative sample of persons was contacted I have attached an explanation in accordance with the provisions of 40 CFR 720.20(e).

Signature of Authorized Official _____

List those persons you have contacted (if appropriate) and check if you have attached their responses to this notice, if you expect them to send information directly to EPA or if you do not know whether the information will be supplied.

Name	Address	Response Attached	Response To Be Sent To EPA	Response Unknown
_____	_____	[ ]	[ ]	[ ]
_____	_____	[ ]	[ ]	[ ]
_____	_____	[ ]	[ ]	[ ]
_____	_____	[ ]	[ ]	[ ]
_____	_____	[ ]	[ ]	[ ]
_____	_____	[ ]	[ ]	[ ]

Part 1

GENERAL INFORMATION

All data requested in this Part must be provided insofar as they are known to or reasonably ascertainable by the submitter. A notice is not valid unless the chemical identity is reported. In cases where the requested data are unknown and not reasonably ascertainable enter NA (not available).

Section A Importer Identification

1. Person Filing Notice

[ ] Name of Authorized Official _____

[ ] Title _____

[ ] Organization _____

[ ] Mailing Address _____

_____

_____

_____

[ ] 2. Incorporation Information

Legal Title of Organization _____

_____

Place of Incorporation

Street _____

City _____

State _____

[ ] 3. Principal Place of Business

Street _____

City _____

State _____

4. Technical Contact

[ ] Name/Title _____

[ ] Address _____

[ ] Telephone Number _____

5. Related Companies

a. Other Persons Authorized to Import Chemical

(i) Identify any other persons who may import the chemical substance to the U.S. within five years after you commence import, by virtue of an existing or planned business arrangement (e.g., contract, license, or other form of legal permission) between you and the person.

	Name	Address	Business Arrangement	Anticipated Date of Import
[ ]	_____	_____	_____	_____
[ ]	_____	_____	_____	_____
[ ]	_____	_____	_____	_____

(ii) If such a business arrangement exists or is planned, do the responses on this form include import volume, uses, and exposure information concerning the activities of these persons?

Yes [ ] No [ ]

If no, estimate the import volume expected during the first 5 years after you commence import of the chemical substance.

[ ] b. Parent Company

Name _____

Address _____

_____

_____

[ ] 6. Intended date of commencement of import (date of entry) to the U.S. for commercial purposes.

Month _____ Year _____

If the intended date of commencement of import is more than 3 years after the date of this notice, submit evidence of intent to manufacture in accordance with 40 CFR 720 Subpart C and 720.21(a).

Port of entry _____

Section B Chemical Identity

If chemical identity will be reported by the foreign manufacturer/supplier complete the certification statement below and do not complete the remainder of Section B.

CERTIFICATION STATEMENT: I hereby certify that the chemical identity of the chemical substance for which this notice is submitted will be reported by the foreign manufacturer/supplier designated below.

Name of foreign manufacturer/supplier _____

Signature of Authorized Official _____

Date _____

Complete either 1, 2 or 3 as appropriate. Complete 4. If chemical identity is claimed confidential, complete 5.

1. Class 1 chemical substance (other than polymers).

[ ] a. CAS Registry No. (if known) _____

[ ] b. Specific Chemical Name _____

[ ] c. Molecular Formula _____

[ ] d. Synonyms _____

[ ] e. Trademarks _____

[ ] f. Structural Diagram

2. Class II chemical substance.

[ ] a. CAS Registry No. (if known) _____

[ ] b. Specific Chemical Name _____

[ ] c. Synonyms _____

[ ] d. Trademarks _____

[ ] e. List the immediate precursor substance(s) and/or reactants with their respective CAS Registry Number(s) and the nature of the reaction. Also provide a partial or incomplete chemical structure diagram (where appropriate). Indicate the range of composition.

3. Polymers

a. (1) Provide the specific chemical name and the CAS Registry Number of those monomers and other reactants used at greater than two percent (by weight) in the manufacture of the polymer. Monomers used at two percent (by weight) or less need not be listed as part of the polymer description; (2) Provide the intended range of composition of the polymer in terms of monomer percent (by weight). Calculate the percent based on the composition of the polymer formed. If your notice is for any copolymer of the listed monomers, enter "any" under Range of Composition; (3) For each monomer, indicate the maximum amount (weight percent) that may be present as a residual in the polymer as distributed in commerce.

	(1) Monomers and CAS Registry #	(2) Range of Composition	(3) Maximum Residual (Weight Percent)
[ ]			
[ ]			
[ ]			

[ ] b. List any monomer used at 2% (by weight) or less in the manufacture of the polymer which is not listed in 3(a) above. For each such monomer indicate the maximum amount (weight percent) that may be present as a residual in the polymer as distributed in commerce.

c. Indicate the minimum molecular weight, compositional restrictions or other restrictions of the polymeric compositions to which this notice applies.

[ ] 4. Impurities

List the identities and estimate the maximum percent (by weight) of those impurities which may reasonably be anticipated to be present in the chemical substance as it will be manufactured for commercial purposes. Consider information developed during R&D activities, your knowledge of manufacturing process chemistry and anticipated quality control operations. Check if the concentration of an impurity will be specifically controlled based upon your knowledge of potential adverse health or environmental effects. Estimate the maximum total percent (by weight) of the impurities that may be present.

Total Percent: _____

	Identity	Maximum Percent	Specifically Controlled
[ ]	_____	_____	[ ]
[ ]	_____	_____	[ ]
[ ]	_____	_____	[ ]

5. Chemical Identity Claimed Confidential

a. If claimed for period prior to commencement of import:

Proposed Generic Name: _____

b. If claimed for period following commencement of import:

Proposed Generic Name: _____

Substantiation and other materials required to be submitted with a claim of confidentiality must be attached in accordance with 40 CFR 720.40(c).

Section C Import and Marketing Data

1. Estimate your import volume (see ranges in Support Document)

[ ] a. First year

[ ] b. Third year

[ ] c. Maximum Annual Demand (fifth year or beyond)

2. Basis of Import Estimate

	% of First Year	% of Third Year	% of Maximum Year
[ ] Firm Order			
[ ] Forecast			
[ ] Speculative			

3. Estimate the total amount of the chemical substance that others may import to the United States in the years following the date of entry reported in question 8, Section A of this Part (see ranges in Support Document).

[ ] a. First year

[ ] b. Third year

[ ] c. Maximum Annual Demand (fifth year or beyond)

4. Chemical Use Assumptions Used in Import Estimate

In the following questions, list each use by function, and as specific an application as possible. (Example; function-solvent; application-paint used in automotive finishes.) List partial information if complete information is not known. (Examples; function-solvent; application-unknown). Uses reported elsewhere in this from should also be reported here.

a. List those uses on which your import estimates are based. List uses in descending order of the anticipated import volume devoted to each use.

	Function	Application
[ ]	_____	_____
[ ]	_____	_____
[ ]	_____	_____

b. List any other uses that you believe the chemical substance could have.

	Function	Application
[ ]	_____	_____
[ ]	_____	_____
[ ]	_____	_____

c. Do you intend or expect the new chemical substance to be used to treat water or drinking water supplies or to be used in coatings, paints, liners, pipes or other products that will come in contact with drinking water?

[ ] Yes [ ] No [ ]

5. Production Information

a. Has the chemical substance been manufactured before?

Yes [ ] No [ ] Don't Know [ ]

If yes, estimate the average annual production and number of years it was produced (see Support Document for ranges).

b. Estimate the total annual production of the chemical substance outside of the United States in the years following the date of entry reported in question 6, Section A of this Part (see ranges in Support Document).

[ ] i. First year

[ ] ii. Third year

[ ] iii. Maximum Annual Demand (fifth year and beyond)

[ ] c. Was production of this chemical banned or restricted because of governmental action, litigation, or voluntarily because of adverse health or environmental effects?

Yes [ ] No [ ] Don't Know [ ]

If yes, cite references or attach information or data.

6. Hazard Warnings

[ ] Attach to this notice a copy or reasonable facsimile of any hazard warning statement, labels, labeling or instructions, technical data sheet, Material Safety Data Sheet and any other information which will be provided to purchasers regarding the safe handling, use, disposal, treatment upon accidental exposure, or recommendations concerning the formulation, construction or labeling of products containing the chemical substance.

Section D Federal Register Notice

Information provided in this section will be published in the Federal Register in accordance with Section 5(d)(2) of the TSCA. Separate sections are provided for presentation of data related to confidential information where appropriate. Do not enter any information in this section which you consider confidential.

1. Chemical Identity - If chemical identity will be reported by a foreign manufacturer/supplier do not complete this question.

   a. If chemical identity was not claimed confidential in Section B, enter the specific chemical name which you reported in Section B. For polymers enter those monomers which were listed in Section B(3)(a).

   _____

   b. If chemical identity was claimed confidential in Section B, enter the proposed generic name which you reported in Section B(3).

   _____

2. Use Data

   a. If use data were not claimed confidential in Section C, list the proposed uses of the chemical substance by function and as specific an application as known. List industrial uses and consumer uses separately.

Industrial Uses

Function	Application

Consumer Uses

Function	Application

   b. If use data were claimed confidential in Section C, report a generic description of the proposed industrial and consumer use(s) of the chemical substance. This description should be as specific as possible without revealing confidential information.

Industrial Uses

_____

_____

_____

Consumer Uses

_____

_____

_____

3. Check below the populations that will be exposed to the new chemical substance during processing or use within the U.S., and estimate the maximum number of persons exposed during a one-year period (see Support Document for ranges). Base your estimate on the maximum annual import and use rate anticipated within the first 5 years of import and include all uses and processing operations.

Population	Exposure Yes	Exposure No	Number Exposed
Workers (processing)	[ ]	[ ]	_____
Consumers (through use of a product(s))	[ ]	[ ]	_____
General Population (in vicinity of processing operations)	[ ]	[ ]	_____

4. For each population group listed in question 3, describe the maximum level, duration and frequency of exposures expected.

5. Estimate the percent of the total import volume for the first 5 years of production that will be released to the environment under normal conditions of processing, use and disposal.