

<b>United States</b> <b>ENVIRONMENTAL PROTECTION AGENCY</b> Washington, DC 20460	<b>AGENCY USE ONLY</b> OMB Control No.: 2060-0226 Expires: 06/30/2014
<b>TSCA/SNAP ADDENDUM</b> <b>for Significant New Alternatives</b>	Date of Receipt:
When completed send this form via U.S. mail to:      Or via overnight delivery to:  SNAP Document Control Officer                              SNAP Document Control Officer Office of Air and Radiation, 6205 J                              U.S. EPA U.S. EPA                                                                      1310 L St, NW 1200 Pennsylvania Ave, NW                                      10 <sup>th</sup> Floor (MC 6205J) Washington, DC 20460                                              Washington, DC 20005	Date 90 Day Review Begins:  Date Review Completed:  PMN Document Control Number
Enter the total number of pages in your SNAP information Notice:	SNAP Document Control No.

## INTRODUCTION

### GENERAL INSTRUCTIONS

This form may be used in conjunction with the Premanufacture Notice (PMN) for new chemical substances (EPA Form 7710-25 (Rev. 1-19)) to submit chemicals for review under the Significant New Alternatives Policy program as alternatives to Class I and II ozone-depleting substances. In addition to the information provided in the Premanufacture Notice, the Agency is requesting submitters provide information on the following topics. This information will assist EPA in assessing the acceptability of the chemical as an alternative to ozone-depleting substances as required by Section 612 of the Clean Air Act. Please see the Instructions for the SNAP Information Notice and TSCA/SNAP Addendum ("Instructions") for additional information on the relationship between the SNAP and TSCA PMN programs and for guidance on completing this form.

To facilitate Agency review of alternatives, both this form and the complete PMN form (including the physical and chemical properties worksheet) must be filled out as completely as possible. Please provide all information requested to the extent that it is known or reasonably ascertainable. Make reasonable estimates if actual data are unavailable.

**PAPER SUBMISSIONS:** All paper submissions must be provided in three complete copies. If information is to be claimed as confidential, all confidential information must be excised from one of the copies which will be placed in the public file; the other two copies must include the confidential material. If no claims of confidentiality are made for the submission, all copies must be identical.

**CD-ROM SUBMISSIONS:** The SNAP program also accepts submissions via CD-ROM. If information is to be claimed as confidential, all confidential information must be excised from one of the files on the CD-ROM, which will be placed in the public docket; the other file must include the confidential material. The file with the confidential material must include "contains CBI" in the file name. Please provide a CD-ROM copy of your PMN submission along with your SNAP submission.

**CONFIDENTIALITY CLAIMS:** Anyone submitting information must assert a claim of confidentiality at the time of submission for any data which is to be treated as Confidential Business Information (CBI). Substantiation of this claim must also be provided at this time. All information claimed as CBI will be treated in a manner consistent with 40 CFR Part 2, Subpart B. Failure to assert a claim of confidentiality at the time of submission may result in disclosure of the information by the Agency without further notice.

Information submitted as CBI may be accessed by companies designated as Authorized Representatives of the United States Environmental Protection Agency (EPA) under an EPA contract for the purpose of assisting EPA in the development and implementation of national regulations for the protection of stratospheric ozone, including the development of the SNAP program. These Authorized Representatives may have access to any information received by the Stratospheric Protection Division within the EPA Office of Atmospheric Programs for use in reviewing the need for possible control of any substance, practice, process or activity that may reasonably be anticipated to affect stratospheric ozone. In general, this information will pertain to the feasibility, costs, and environmental and health impacts of using substitutes for Class I and Class II substances. Access to such information is necessary to ensure that these companies can complete the work required by the contract.

Authorized Representatives of the Administrator are subject to the provision of 42 U.S.C. 7414(c) regarding confidential business information as implemented by 40 CFR 2.301(h)

**Part I - GENERAL INFORMATION**

**Section A - SUBMITTER IDENTIFICATION**

**1. (a) Person Submitting Notice (in U.S.)**

Name of Authorized Official \_\_\_\_\_ Title \_\_\_\_\_

Company/Organization \_\_\_\_\_

Mailing Address \_\_\_\_\_ Telephone & Fax Numbers \_\_\_\_\_

Email Address \_\_\_\_\_

**(b) Agent (if applicable)**

Name of Authorized Official \_\_\_\_\_ Title \_\_\_\_\_

Company/Organization \_\_\_\_\_

Mailing Address \_\_\_\_\_ Telephone & Fax Numbers \_\_\_\_\_

Email Address \_\_\_\_\_

**(c) Joint Submitter (if applicable)**

Name of Authorized Official \_\_\_\_\_ Title \_\_\_\_\_

Company/Organization \_\_\_\_\_

Mailing Address \_\_\_\_\_ Telephone & Fax Numbers \_\_\_\_\_

Email Address \_\_\_\_\_

**2. Technical Contact (in U.S.)**

Name of Authorized Official \_\_\_\_\_ Title \_\_\_\_\_

Company/Organization \_\_\_\_\_

Mailing Address \_\_\_\_\_ Telephone & Fax Numbers \_\_\_\_\_

Email Address \_\_\_\_\_

**3. If you have had a prior communication with EPA concerning this notice, note the date and type of communication (letter, phone, etc.) and the EPA staff person's name:**

Mark (X) if None \_\_\_\_\_

Mark (X) this box if this page contains CBI \_\_\_\_\_

**Part II - ALTERNATIVE-SPECIFIC INFORMATION**

1. Name of chemical (preferably IUPAC nomenclature) and molecular formula.

2. Generic name (if chemical name of substitute is declared Confidential Business Information)

3. End-uses and ozone-depleting substances (ODSs) being replaced:

(a) Describe each industrial sector and end-use that may be reasonably anticipated for the alternative. For a list of end uses, see Appendix A to the Instructions, beginning on p. 23. If the alternative is a refrigerant, indicate whether it is a candidate for use in retrofits of existing equipment, for use in new equipment only, or both.

(b) Identify the ODS and the quantity of substitute needed to replace it for each end-use (i.e., the replacement ratio).

4. Ozone-depletion Potential (ODP):

(a) Provide the alternative's 100-year ODP of the alternative relative to CFC-11, if known. Reference the source of the ODP.

(b) Provide any additional data on the ODP of the alternative (e.g., atmospheric lifetime, chlorine or bromine loading potentials). Reference the source of this information and attach any supporting documentation.

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**Part II - ALTERNATIVE-SPECIFIC INFORMATION (Continued)**

**5. Global-warming Characteristics**

(a) Provide the alternative's atmospheric lifetime and global warming potential (GWP) relative to carbon dioxide over 100-year time horizon, and 20-year or 500-year time horizon, if known. Reference the most recent assessment report of the Intergovernmental Panel on Climate Change (IPCC AR4). Alternate sources may include the 2010 World Meteorological Organization (WMO) Scientific Assessment of Ozone Depletion or the peer-reviewed literature. If the substitute is a blend, provide the GWPs of the individual constituents and an estimate of the blend at its nominal composition.

(b) If known, provide the alternative's expected impact on energy efficiency relative to the substance it is replacing (e.g. +/- X %) and results of any testing or modeling done (both theoretical and actual testing). Energy efficiency information is particularly useful for refrigerants and foams.

(c) For GWP values that do not come from AR4 or WMO 2010, provide any available additional data on the atmospheric lifetime and GWP of the alternative, including infrared absorption spectrum and infrared absorption capacity. Reference the source of this information.

**6. Flammability Concerns:**

(a) Provide the alternative's flash point, the upper and lower flammability limits (UFL & LFL) in percent by volume, the heat of combustion (kJ/kg), maximum pressure (PSI), and maximum rate of pressure rise.

(b) Provide any additional information on flammability concerns. For example, if any abatement techniques are being used to minimize the risks associated with flammable substances or mixtures, detail those techniques below.

(c) For flammable refrigerants, provide a fault tree analysis for each end use. For flammable foam blowing agents used in spray foam, provide a training program that addresses flammability concerns specific to this substitute.

**7. Cost and Availability of Alternative:**

(a) Estimate the cost per pound for the alternative chemical. Please describe the information used as the basis for this cost estimate.

(b) Describe any new equipment and use profiles that will be necessary in order to use the substitute. If retrofitting of existing equipment is required, detail changes in technologies needed to use the alternative and address any materials compatibility issues. Provide information on any new materials, equipment lifetime, changes in labor, and energy costs.

(c) Provide information on when the substitute is expected to be available, including:  
- Year substitute is expected to be available  
- Years to maximum market penetration - Maximum total production per year at maximum market penetration, providing units of measure and estimated percentage of market.

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**Part IV - LIST OF ATTACHMENTS**



I certify to the best of my knowledge and belief that:

1. All information provided in this notice is complete and truthful as of the date of the submission.
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 notice:
  - (a) intends to manufacture, formulate, import, market, or use a new alternative to a Class I or Class II ozone-depleting substance which is identified in Part I, Section B, Question 2.
  - (b) seeks an acceptability determination on a new alternative(s) to a Class I or Class II ozone-depleting substance, which is identified in Part I, Section B, Question 2.
4. The accuracy of the statements made in this notice reflects my best prediction of the anticipated facts regarding the alternative described herein. Any knowing and willful misinterpretation is subject to criminal penalty pursuant to section 113(c) of the Clean Air Act and 18 U.S.C. §1001.

**Signature and Title of Authorized Official (Original Signature Required):** **Date**

**Signature of Agent (Where Applicable):** **Date**

For persons filing a SNAP Information Notice, the reporting burden is estimated to average 171 hours per year. For persons filing a TSCA/SNAP Addendum, the reporting burden is estimated to average 36 hours per year. Burden means that total time, or financial resources expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal agency. This includes the time needed to review instruction; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to a collection of information; search data sources; complete and review the collection of information; and transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number.

Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the U.S. Environmental Protection Agency, Attn: Director, Collection Strategies Division, Office of Information Collection, 1200 Pennsylvania Avenue, NW, Mail Code 2822T, Washington DC, 20460. Please include the EPA Docket ID Number OAR-2004-0077 and OMB Control Number 2060-0226 in any correspondence. Do not send the completed form to this address.