

Assessment Branch, 1600 Clifton Road, N.E., Mail Stop E-29, Atlanta, Georgia 30333, telephone 888-422-8737.

SUPPLEMENTARY INFORMATION: CERCLA establishes certain requirements for ATSDR and EPA with regard to hazardous substances that are most commonly found at facilities on the CERCLA NPL. Section 104(i)(2) of CERCLA, as amended [42 U.S.C. 9604(i)(2)], required that the two agencies prepare a list, in order of priority, of at least 100 hazardous substances that are most commonly found at facilities on the NPL and which, in their sole discretion, have been determined to pose the most significant potential threat to human health (see 52 FR 12866, April 17, 1987). CERCLA also required the agencies to revise the priority list to include 100 or more additional hazardous substances (see 53 FR 41280, October 20, 1988), and to include at least 25 additional hazardous substances in each of the three successive years following the 1988 revision (see 54 FR 43619, October 26, 1989; 55 FR 42067, October 17, 1990; 56 FR 52166, October 17, 1991). CERCLA also requires that ATSDR and EPA shall, at least annually thereafter, revise the list to include additional hazardous substances that have been determined to pose the most significant potential threat to human health. In 1995, the agencies altered the publication schedule of the priority list by moving to a 2-year publication schedule, reflecting the stability of this listing activity (60 FR 16478, March 30, 1995). As a result, the priority list is now on a 2-year publication schedule with a yearly informal review and revision. Each substance on the CERCLA Priority List of Hazardous Substances is a candidate to become the subject of a toxicological profile prepared by ATSDR and subsequently a candidate for the identification of priority data needs.

The initial priority lists of hazardous substances (1987-1990) were based on the most comprehensive and relevant information available when the lists were developed. More comprehensive sources of information on the frequency of occurrence and the potential for human exposure to substances at NPL sites became available for use in the 1991 priority list with the development of ATSDR's HazDat database. Utilizing this database, a revised approach and algorithm for ranking substances was developed in 1991, and a notice announcing the intention of ATSDR and EPA to revise and re-rank the Priority List of Hazardous Substances was

published on June 27, 1991 (56 FR 29485). The subsequent 1991 Priority List and revised approach used for its compilation was summarized in the "Revised Priority List of Hazardous Substances" **Federal Register** notice published October 17, 1991 (56 FR 52166). The same approach and the same basic algorithm have been used in all subsequent activities, including the 2003 listing activity. The algorithm used in ranking hazardous substances on the priority list consists of three criteria, which are combined to result in the total score. The three criteria are: frequency of occurrence at NPL sites; toxicity; and potential for human exposure.

Since HazDat is a dynamic database with ongoing data collection, additional information from the HazDat database became available for the 2003 listing activity. This additional information has been entered into HazDat since the development of the 2001 Priority List of Hazardous Substances. The site-specific information from HazDat that is used in the listing activity has been collected from ATSDR public health assessments, health consultations, and from site file data packages that are used to develop these public health assessments. The new information may include more recent NPL frequency of occurrence data, additional concentration data, and more information on exposure to substances at NPL sites. With these additional data, 11 substances have been replaced on the list of 275 substances since the 2001 publication. Of the 11 replacement substances, 6 are new candidate substances, and 5 are substances that were previously under consideration. These replacement substances and changes in the order of substances appearing on the CERCLA Priority List of Hazardous Substances will be reflected in the program activities that rely on the list for future direction.

The 2003 Priority List of Hazardous Substances includes 275 substances that have been determined to be of greatest concern to public health based on the criteria of CERCLA Section 104(i)(2) [42 U.S.C. 9604(i)(2)]. A total of 863 candidate substances have been analyzed and ranked with the current algorithm. Of these candidates, the 275 substances on the priority list may become the subject of toxicological profiles in the future. The top 25 substances on the 2003 Priority List of Hazardous Substances are listed below.

Rank	Substance name
1	Arsenic.
2	Lead.

Rank	Substance name
3	Mercury.
4	Vinyl Chloride.
5	Polychlorinated Biphenyls.
6	Benzene.
7	Cadmium.
8	Polycyclic Aromatic Hydrocarbons.
9	Benzo(a)Pyrene.
10	Benzo(b)Fluoranthene.
11	Chloroform.
12	DDT, P,P'-
13	Aroclor 1254.
14	Aroclor 1260.
15	Dibenzo(a,h)Anthracene.
16	Trichloroethylene.
17	Chromium, Hexavalent.
18	Dieldrin.
19	Phosphorus, White.
20	Chlordane.
21	DDE, P,P'-
22	Hexachlorobutadiene.
23	Coal Tar Creosote.
24	DDD, P', P'-
25	Benidine.

ATSDR and EPA intend to publish the next revised list of hazardous substances in two years, with an informal review and revision performed in one year. These revisions will reflect changes and improvements in data collection and availability. Additional information on the existing methodology used in the development of the CERCLA Priority List of Hazardous Substances can be found in the Support Document to the List and in the **Federal Register** notices mentioned above.

In addition to the revised priority list, ATSDR is also releasing a Completed Exposure Pathway Site Count Report. A completed exposure pathway (CEP) is an exposure pathway that links a contaminant source to a receptor population. The CEP ranking is very similar to a sub-component of the potential-for-human-exposure component of the listing algorithm. The CEP ranking is based on a site frequency count, and thus lists the number of sites at which a substance has been found in a CEP. ATSDR's HazDat database contains this information which is derived from ATSDR public health assessments and health consultations. Because exposure to hazardous substances is of significant concern, ATSDR is publishing this CEP report along with the CERCLA Priority List of Hazardous Substances. Since this CEP report focuses on documented exposure, it provides an important prioritization based on substances to which people are exposed.

The substances on the CEP report are similar to the substances on the CERCLA Priority List of Hazardous Substances. However, there are some substances that are on the CEP report