comment during a planned reproposal of the 12 deferred chemicals.

TABLE 2.—QSAR RESULTS FOR DEFERRED DISCARDED CHEMICAL PR	ODUCTS
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Waste code	Toxic hazardous wastes CAS name (common name in parentheses)	CAS No.	Fish 96-h LD50 mg/L	Daphnid 48-h LC50 mg/L	Fish chronic value (ChV) mg/L	Daphnid chronic value (ChV) mg/L
U368	Antimony tris (dipentylcarbamodithioato-S,S')- (Antimony trisdipentyldithiocarbamate).	15890–25–2	0.09	0.35	0.004	0.01
U369		15991–76–1			0.001	0.003
U370		21260-46-8	1.8	0.63	0.03	0.06
U371	Carbamic acid, [(dimethylamino)iminomethyl)] methyl, ethyl ester monohydrochloride (Hexazinone intermedi- ate).	65086–85–3	190.0	30.0	20.0	3.0
U374	Carbamic acid, [[3-[(dimethylamino) carbonyl]-2- pyridinyl]sulfonyl]-phenyl ester (U9069).	112006–94– 7	870.0	1000.0	90.0	100.0
U380	Carbamodithioic acid, dibutyl-, methylene ester	10254–57–6			0.01	0.06
U388	Carbamothioic acid, (1,2-dimethylpropyl) ethyl-, S- (phenylmethyl) ester (Esprocarb).	85785–20–2	3.9 0.46—Carp 28–d TSCA§8E 8379	3.9	0.40	0.40
U397	Lead, bis(dipentylcarbamodithioato-S,S')- (Lead, bis (dipentyldithiocarbamato)).	36501–84–5			0.003	0.008
U398	Molybdenum, bis(dibutylcarbamothioato)- dimu oxodioxodi-, sulfurized.	68412–26–0			0.20	0.25
U399	Nickel, bis(dibutylcarbamodithioato-S,S')- (Nickel dibutyldithiocarbamate).	13927–77–0	0.12	0.26	0.004	0.01
U405	Zinc, bis[bis (phenylmethyl) carbamodithioato-S,S']- (Zinc dibenzyldithiocarbamate).	14726–36–4	0.10	0.30	0.004	0.01
U406		136–23–2	0.12	0.26 0.74— daphinid 48–h TSCA§8E 9739	0.004	0.01

V. Response to Comments

The Agency is responding in this preamble to the most significant comments received in response to both the notice of March 1, 1994 (59 FR 9808) and the single comment received on carbamates that were part of the "Michigan List" proposal ¹ (49 FR 49784, December 21, 1984).

Other comments received by the Agency are addressed in the Response to Comments Background Document that is available in the docket associated with this rulemaking.

A. Scope of Listing

1. Definition of Carbamates

Many commenters were confused by the scope of the listings and found it difficult to determine whether their production processes and discarded products were in the scope of wastes included in the listings. Many commenters believed that the definition of a carbamates was too vague and that any number of compounds could be considered carbamates. Commenters requested that EPA specifically define each of the four generic classes of carbamate compounds (carbamates, carbamoyl oximes, thiocarbamates, and dithiocarbamates) along with the scientific rationale for each definition and to footnote the regulation with those definitions.

In the March 1, 1994, proposal (59 FR 9808), the Agency included the definition of carbamate in the engineering background document (F– 94–CPLF–S0001). In response to comments that the categories are not sufficiently defined, EPA is providing additional clarification of the chemical characteristics of each of the specific groups listed above. A discussion of the term carbamate follows.

Chemical Definitions

Carbamates are salts or esters of carbamic acid. Today's regulations impact the production of chemicals of four distinct functionalities: carbamates, carbamoyl oximes, thiocarbamates, and dithiocarbamates. The production of chemicals in these four groups, comprise the "carbamate industry" studied by EPA in this rulemaking proceeding.

Carbamates

A carbamic acid ester is a compound that has the following structure:

$$\begin{array}{c}
\mathbf{R}_{2} \ \mathbf{O} \\
\parallel \\
\mathbf{R}_{1} - \mathbf{N} - \mathbf{C} - \mathbf{O} - \mathbf{R}_{3}
\end{array}$$

Where R_1 and R_2 can be identified as a hydrogen atom or any organic group beginning with a carbon sequence, and R_3 must be an organic group beginning with a carbon atom. The substitution of a metal cation at the R_3 position will result in a carbamate salt. Polyurethanes (i.e., polymers consisting of linked carbamate esters) are not within the scope of this rulemaking. Polyurethanes are large molecular structures which are unlikely to be bioavailable and which do not exhibit the toxicological

¹In response to a petition for rulemaking filed by the State of Michigan, the EPA proposed to add 109 chemicals to the list of commercial chemical products that are hazardous when discarded.