Monsanto

MEDICAL DEPARTMENT BULLETIN

Data Sheet EC-202

NEW PRODUCTS

Final Environmental Compatibility Assessment

As provided for in corporate procedures (D-II-8 in Management Guide and Medical Department Bulletin EC-201) the division in the company responsible for a new product must obtain a final environmental evaluation before commercialization.

To obtain this evaluation, the individual responsible for the product reviews the Preliminary Environmental Compatibility Assessment (EC-201) form, consults the literature, obtains the best answers he can by consultation with others, and completes Data Sheet EC-202. He sends this to the Medical Director along with a statement of his principal sources of information, the intended product uses and a request for a final environmental evaluation with intent to commercialize.

The Medical Director will respond as to the environmental acceptability, restrictions, or additional information needed, if any, or if unacceptable, the reasons why.

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Environmental Compatibility Assessment Scheme

Instructions:

Answer each question in turn, "yes" or "no". Each answer is provided with a directive concerning the question to be answered next; the logic of the scheme assumes that questions skipped would be answered "no" and can thus be ignored. The last question, No. 12, should be considered if it is decided to make and sell materials which are very useful but potentially dangerous to man or his environment. When applying this form, consideration must be given to the product Monsanto supplies, product impurities, as well as thefinal or end product that enters the environment.

ITEMS 1 THROUGH 3 ARE TO ESTABLISH THE HAZARDS TO HUMANS OF PRODUCTS, PRODUCT IMPURITIES, BY-PRODUCTS OR MANUFACTURING AND DEGRADATION PRODUCTS.

	If	Go to:
1. Is the material so physiologically inert that there need be no concern about health hazards to humans?	Yes No	4 2 & 3
2. a) Is the material toxic to persons as a result of a single contact with high concentrations?		
b) Is the material toxic to persons at lesser concentrations following repeated or prolonged exposure?		
c) Is the material likely to be carcinogenic, teratogenic or mutagenic?		
3. Recognizing the hazards to people, can procedures be devised for safe handling at reasonable cost?	Yes No	4 -Do Not Sell

ITEMS 4 THROUGH 6 ARE TO ESTABLISH IF CONSIDERATION HAS BEEN GIVEN TO DISPOSAL, DEGRADATION PRODUCTS OF DISPOSAL AND ENVIRONMENTAL DEGRADABILITY.

	If	Go to:
4. Can "closed-loop" disposal provisions be developed for the product so it will never reach the environment?	Yes No	5 6

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		If	Go to:
5.	Is it likely the degradation products from the "closed-loop" disposal system could be harmful to humans?	Yes No	-Recycle Degradation Products to 2. Continue at 6. 7
6.	Is it likely that the product will degrade in the environment or in any of the currently used disposal systems?	Yes No	-Recycle Degradation Products to 1. Continue at 7. 7

ITEMS 7 THROUGH 10 ARE TO ESTABLISH HAZARDS OF PRODUCTS AND DEGRADATION PRODUCTS TO PLANTS, ANIMALS OR ECOSYSTEMS.

7.	Is it probable that the product or degradation products are harmful to plants and animals at concentrations to which they are likely to be exposed?	Yes No	8 9
8.	Recognizing the hazards to plants and animals, can procedures be devised at reasonable costs to render the material innocuous?	Yes No	9 -Do Not Sell
9.	Is it likely that harmful secondary reaction products could be formed from the harmless parent material as a result of a chemical, biochemical, or biological activity in the environment?	Yes No	-Recycle the By-product at 1 & 7. Continue at 10. 10
10.	Is there reason to suppose that the material could have deleterious effect on the ecosystem, e.g., through concentration in the food chain, antagonism, synergism, abiotic reactions, chelation or plain physical concentration even though the material was not directly toxic to the biota?	Yes No	-Recycle to 8. Continue at 11. 11
11.	Have procedures been devized to handle catastrophes in the production, storage, or transportation of the product?	Yes	-Sell
12.	Is it necessary to restrict sales to specific end uses?		

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