



## **H. Environmental Information**

- 1. Date:** April 18, 2000
- 2. Name of Sponsor:** GE Specialty Chemicals
- 3. Address:** All communications on this matter are to be sent in care of Prakash Surana, Ph.D., Manager, Product Regulations, GE Plastics, 1 LEXAN Lane, Mt. Vernon, Indiana 47620-9364. Telephone: (812) 831-7265.

### **4. Description of the proposed Action:**

This premarket notification (PMN) deals with the use of GENOX™EP, chemically identified as Amines, bis(hydrogenated rape-oil alkyl)methyl, N-oxides (CAS Reg. No. 204933-93-7) for use as an antioxidant at levels not to exceed 0.1 weight percent in polypropylene homopolymer and copolymers complying with 21 C.F.R. § 177.1520. This PMN represents the second filing by GE Specialty Chemicals with respect to GENOX™ EP. The first submission, PMN 000002, which became effective on March 8, 2000 deals with the use of GENOX™ EP at a level not to exceed 0.1 percent by weight of polypropylene homopolymer and copolymers that are used in contact with aqueous, acidic, and dry foods, and alcoholic beverages containing up to 15% of alcohol, at temperatures up to 100°C (212°F).

The current submission is intended to expand the permitted use of GENOX™EP to allow its use as a stabilizer for polypropylene homopolymers and copolymers (generally referred to here as “polypropylene”) for single as well as repeated-use applications involving contact with all food types. The maximum use level will remain 0.1% by weight of the polymer, and the maximum temperature of food contact will remain 100°C.

**5. Environmental consequences of the proposed action:**

**a. Production of the food-contact substance:**

GENOX™ EP will be produced in compliance with all applicable Federal, State, or local environmental agencies’ regulations. There are no known extraordinary circumstances that apply to the manufacture of the food contact substance, GENOX™ EP.

**b. Use and disposal of the food-contact substance:**

**Minor components of food packaging materials:** This action involves a food contact substance that is a minor component of finished food packaging materials that will be present at 0.1 percent by weight of the finished packaging material and will remain with the packaging through its use by consumers. The principal routes of environmental introduction of the food-contact substance will result from its disposal in municipal solid waste combustors or in landfills. These disposal routes are governed by Environmental Protection Agency (EPA) regulations in 40 C.F.R. part 60 (for combustors) and part 258 (for landfills). Based on the

low levels of the food-contact substance in the packaging material, introduction of combustion products or introduction at landfill sites are not environmentally significant. Therefore, we do not expect that any limited increase in environmental introductions resulting from the proposed action will threaten a violation of the EPA regulations governing combustors and landfills or have any other adverse environmental effect.

**Components of repeated-use articles:** This action also involves a food contact substance that is a component of a repeat-use articles such as food storage containers, pitchers, plates, cups and household beverage glasses (juices, milk etc.). The principal route of environmental introduction of the food contact substance follows from its disposal after use. However, the potential for significant introduction of substances resulting from disposal is very low because of the long service life of the repeat-use articles and because of the limited market volume of the substance (see cover letter for confidential information). Therefore, the proposed action will not have a significant environmental effect.

**6. Alternatives to the proposed action:**

Alternatives to the proposed action need not be considered, because no potential adverse effects have been identified.

**7. List of Preparers:**

1. Prakash Surana, Ph.D., Manager, Product regulations, GE Plastics,  
1 LEXAN Lane, Mt. Vernon, Indiana 47620-9364.

**8. Certification:**

The undersigned official certifies that the information presented is true, accurate, and complete to the best knowledge of G.E. Specialty Chemicals.

Date: 4/18/00



Prakash Surana, Ph.D., Manager,  
Product Regulations  
G.E. Plastics