

Industrial and Environmental Toxicology Accomplishments

January - December 2001

Pesticide Program

- Evaluated 1,746 tobacco samples for pesticide levels and issued memos recommending purchase strategies.
- IET efforts to reduce cypermethrin residues in Thailand burley tobacco were successful. Cypermethrin was not detected in any of the pre-commitment Thai burley samples from the 2001 crop year. IET's involvement in this effort included collaboration with our dealers (DIMON and Standard Commercial), the Thai Tobacco Monopoly, representatives the Thai federal government, and the Governors of Provinces in which tobacco is grown.
- On behalf of the Phosphine Coalition (a coalition of over 200 companies and trade associations), IET produced two draft publications dealing with phosphine risk assessment and the establishment of a worker exposure standard for phosphine and also commented on the finalized documents created by Sciences International. These manuscripts will be submitted to *Risk Analysis, An International Journal*.
- At upper management's request, a new sampling plan for pesticide residue analyses was devised to reduce the number of samples going through RJRT's Pesticide Residue Laboratory. Very large lots of tobacco will be further composited to accomplish the sample reductions. It is estimated that the new sampling program will reduce the sample load to the laboratory by about 25%.

Materials Qualification and Manufacturing Practice Review

- Completed two hundred and fifty three (253) Manufacturing Material requests. Approved twenty (20) Bright Ideas for corporate cost savings program. Authorized two (2) Maintenance Technical Bulletins related to GMP cleaning of equipment. Advised CFA on strategy to refurbish Adhesive Tanker Car to food grade status. Approved thirty-three (33) requests for cigarette production trials

Material Safety Data Sheets (MSDSs)

- 53 new MSDSs issued; 25 revised MSDSs issued
- Evaluated 4 MSDS programs to replace our antiquated system. MSDgen by HSE Systems was selected to serve our MSDS needs. Organized and attended implementation planning sessions with HSE Systems. Decided on multiple MSDS formats including domestic, EU, Canadian and Japanese. Evaluated MSDS section by section for our needs. Prepared key for the conversion of current MSDS data into MSDgen.

Electron Microscopy Evaluation

- Used SEM to support a wide range of R&D projects related to product development. Also used SEM to aid other RJRT initiatives in manufacturing/operations and QA related to product quality and consumer complaints.

Worker Health and Safety

- Addressed issues related to biohazards (i.e., anthrax) which came to the forefront after intense media coverage of mail related anthrax cases. Specific accomplishments included:
 - addressed a consumer concern regarding a contaminated product; identified laboratories capable of conducting anthrax testing; worked as part of an RJRT team to modify company-wide mail handling procedures; selected biohazard hood for installation in 641 to be used to quarantine suspected mail and internal foreign matters; outlined safe mail handling procedures and personal protection equipment guidelines for employees working at 641

Avoca-Flavors and Fragrances/Dietary Supplements

- Provided technical and regulatory support to Avoca on biotechnology and dietary supplement regulatory issues.

Toxicology Chemistry

- Provided support for mouse dermal promotion studies (dosing solution preparation & analysis) - TOX 135, TOX137, TOX147, and TOX153.
- Performed Methods development in support of Toxicology studies (CSC pH, CSC density, dosing solution stability, and 60/30 smoke collection).

- Performed ETS claims substantiation study on Eclipse prototype 1-033
- Assisted with external efforts toward reasonable regulation of secondhand-smoke in indoor air (ASHRAE committee membership, commenter on standards).