Summary of Public Comments received on the Challenge substance 1,4-benzendiol (CAS RN 123-31-9) (Hydroquinone) Proposed Risk Management Approach document for Batch 1

Comments on the proposed risk management approach for 1,4-benzenediol to be addressed as part of the Chemicals Management Plan Challenge were provided by Dow Chemical Canada, the Hydroquinone Group, the Nail Manufacturers Council, the Canadian Environmental Law Association and Chemical Sensitivities Manitoba.

Comment	Response
Since hydroquinone is already subject to	While exposure to hydroquinone is low, the
various federal regulations, is there a need for	Government of Canada considers it appropriate
additional regulation under the Canadian	to impose a condition whereby it is able to
Environmental Protection Act, 1999 (CEPA	assess the risks posed by any change in the use
1999)?	pattern, before such a change is permitted, to
	ensure that exposures remain low.
Although the primary exposure route is food,	To prevent increases in exposure of
the hydroquinone concentrations are extremely	hydroquinone, the application of the
low and do not present a quantifiable risk.	Significant New Activity provisions under
	CEPA 1999 to this substance will be
	recommended. This would require that any
	proposed new manufacture, import or use be
	subject to further assessment, and would
	determine if the new activity requires further
	risk management consideration.
The critical health effect for the	Hydroquinone is still allowed as a reactant in
characterization of risk to human health is	hair dyes and artificial nail systems. As a
carcinogenicity following oral exposure to	polymerization aid, it is consumed rapidly
hydroquinone. As such it meets the "toxic"	during use in both products. However, based
criteria under section 64 of CEPA 1999. As an	on the mentioned potential health concerns, the
ingredient in topical products, repeated or	government will further limit its use in
prolonged dermal exposure can result in skin	cosmetics as a reactant to a maximum
depigmentation, and discoloration of nails and	concentration of 0.3% in hair dyes and 0.02%
hair. Allergic contact dermatitis has been	in manicure preparations. These recommended
reported at concentrations approximating 1%.	limits are expected to provide a high level of
Additional information is needed as to the	protection to consumers. It is proposed that the Cosmetic Ingredient Hotlist be amended to
nature of the additional restrictions proposed in	reflect these recommendations. Since
the final risk management on the use of	hydroquinone is mainly formulated and/or
hydroquinone in cosmetic products (nail	supplied at the proposed limits, the
systems and hair dyes) through amendments to	amendments are cost-effective to the cosmetic
the Hotlist, since it is prohibited for use in	industry.
cosmetics products applied on the skin or	massay.
mucous membranes.	
Consideration should be given to prohibiting	The Government of Canada does not intend to
the use, import, export, sale and manufacture	prohibit the use of hydroquinone in consumer
of hydroquinone in all consumer products, and	products as exposure modeling of the

particularly in photographic developing solutions, hair dyes, manicure products and skin lightening creams, since alternative products do exist.

There must be more aggressive action by the government to protect photographic solution users (workplace) and consumers. The onus cannot be on the user. Therefore, we continue to recommend that the use of hydroquinone be prohibited from consumer products generally, and particularly those listed in the above recommendation.

To promote the use of alternatives and support increased accountability on the part of industry, the government should ensure that the alternatives for hydroquinone in consumer products are safe, and that industry supplies complete documentation to demonstrate this.

Risk management also included the regulation of hydroquinone-containing health products, such as a prescription drug, but criteria for this type of product should have been detailed.

Also proposed is the creation of a provision that would require industry to notify the government if the proposed use of hydroquinone exceeds a specified level. This requires some clarification, since usage levels vary according to the type of industry. When a notification level is high, some industries would not be subject to notification requirements because of their low usage levels. We oppose the use of future notification alone as a risk management mechanism, as it entrenches a control regime and does little to promote prevention of hydroquinone use.

appropriate use of these was calculated as being extremely low. At the same time, health warning labels are currently affixed to all consumer chemicals in accordance with the *Consumer Chemicals Container Regulations*.

The Government of Canada has in place WHMIS (Workplace Hazardous Materials Information System) which is a hazard communications standard which provides cautionary labelling of containers of WHMIS "controlled products", the provision of material safety data sheets (MSDSs) and worker education and training programs. In addition, health warning labels are currently affixed to all consumer chemicals in accordance with the *Consumer Chemicals Container Regulations*.

The Chemicals Management Plan does not have the mandate to assess and approve of alternative chemicals and/or processes. However where possible we take into account alternatives when developing risk management approach documents.

The criteria for drugs and health products are governed under the *Food and Drug Regulations*. The Government of Canada will propose to regulate hydroquinone containing health products as a prescription drug. As a result, it will no longer be available in overthe-counter products (e.g., skin lightening products).

Hydroquinone will be added to the *Food and Drugs Regulations* so it will be regulated as a prescription drug. Additional conditions on the substance use are being applied through the Cosmetic Ingredient Hotlist. The application of the Significant New Activity provisions under CEPA 1999 to this substance will be recommended. This would require that any proposed new manufacture, import or use be subject to further assessment, and would determine if the new activity requires further risk management consideration.