



considered chemistry

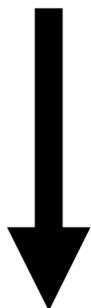


consider your choices... consider the impact

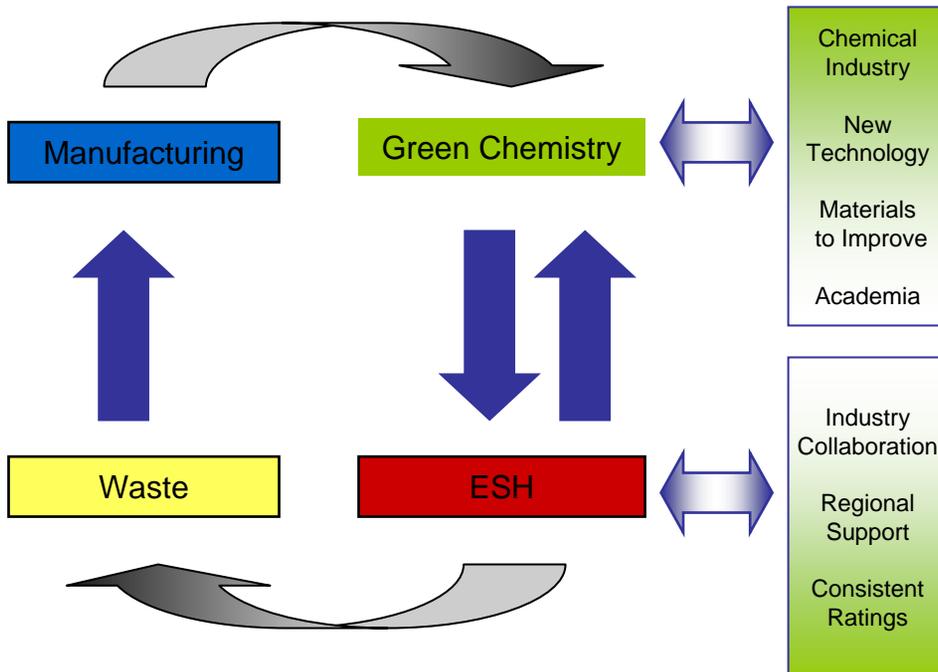


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RSL



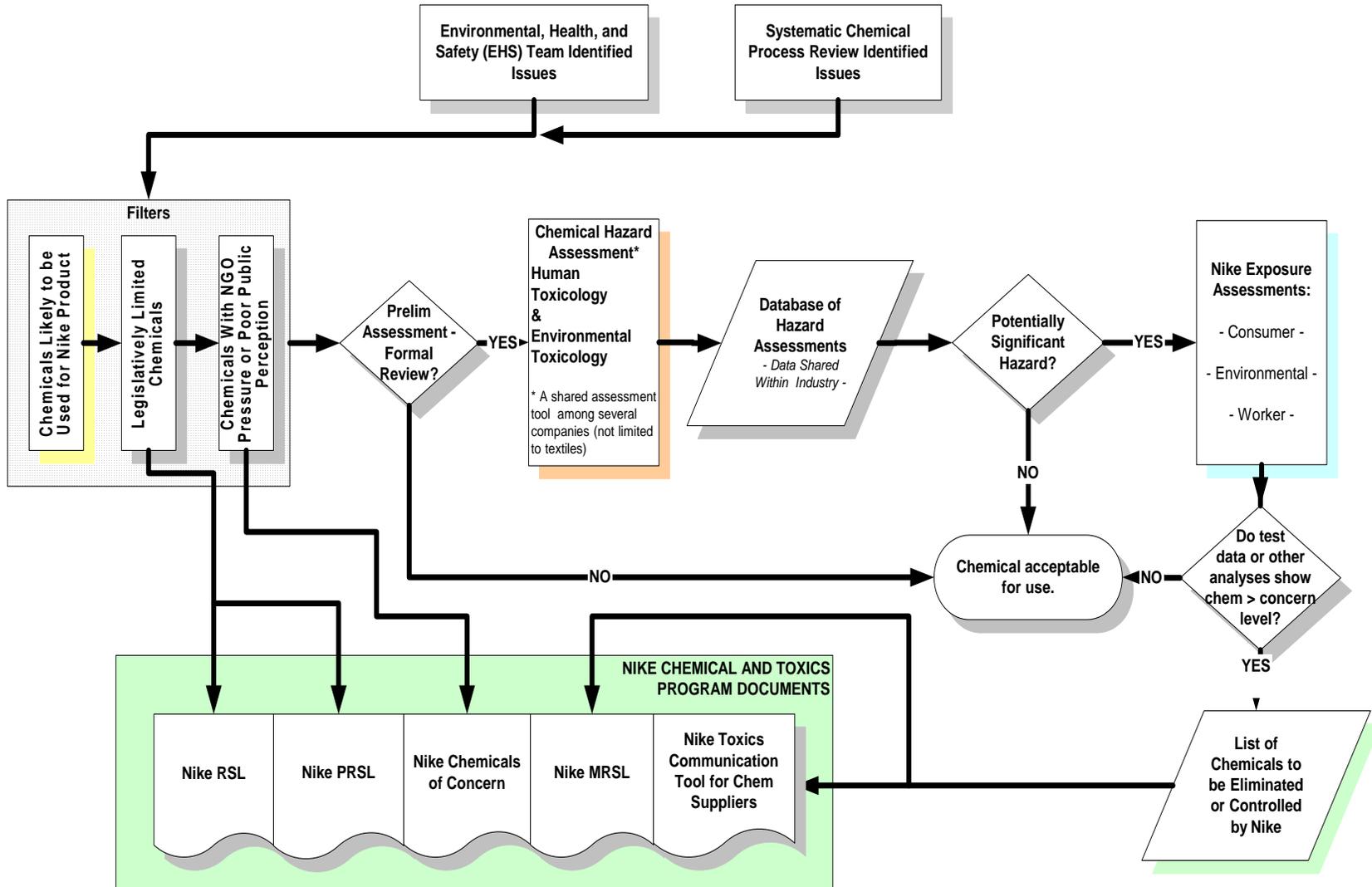
Green Chemistry





considered chemistry

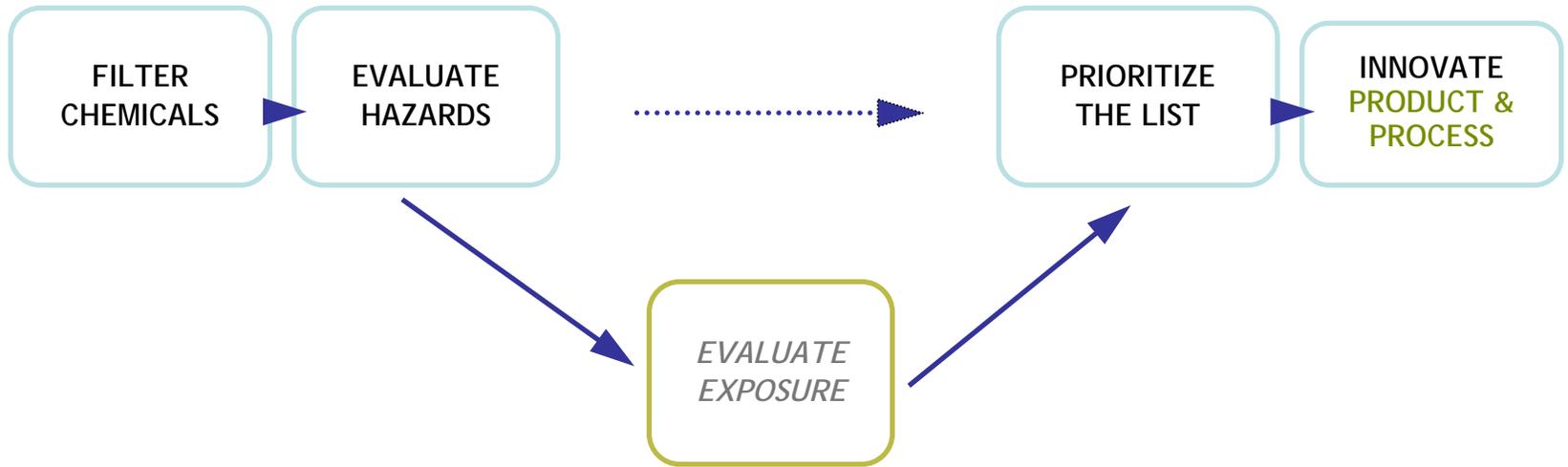
- NIKE GREEN/HEALTHIER CHEMISTRY PROGRAM - - DRAFT -





NIKE GREEN CHEMISTRY

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Toxicity Analysis of Rubber Formulations

RAW MATERIAL	PRESENCE WITHIN FORMULATIONS	
	TRADITIONAL RUBBER	EP RUBBER
hydrocarbon waxes, petroleum, clay-treated microcryst		*
polyethylene glycol		*
soybean oil		*
paraffinic wax	*	*
polyethylene	*	*
stearic acid	*	*
sulfur	*	*
calcium sulfate	*	
calcium carbonate	*	
water	*	
polyisoprene		*
polybutadiene		*
tetrabenzyl thiuram disulfide		*
Zeolane™ 74 (in HAEPR formulation)		*
butadiene acrylonitrile styrene rubber	*	*
2,6 di-t-butyl-p-cresol (bht)	*	*
ethylenevinylacetate copolymer	*	*
hydroxylated silicon dioxide	*	*
tiO2 (rutile) titanium dioxide	*	*
zinc oxide	*	*
butadiene rubber	*	
pentaerythritol tetrastearate	*	
pentaerythritol tristearate	*	
polycyclopentadiene	*	
petroleum solvent d 60	*	
2, 2'-dibenzothiazyl disulfide	*	*
natural rubber	*	
2-mercapto-benzothiazole	*	
dicyclohexylamine	*	
nonylphenol polyethylene glycol ether	*	

Target chemicals for replacement in the preferred formulation





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Toxic Analysis Result

RAW MATERIAL	DESCRIPTION	CAS NUMBER	MS3 EVALUATION/ RESOURCE*	TOXICITY EVALUATION
Natural rubber	Latex	9006046	MAK, HSDB	RED
2, 2'-dibenzothiazyl disulfide	Accelerator	120-78-5	HSDB, IUCLID 2000	RED
2-mercapto-benzothiazole	Accelerator	149-30-4	MAK, CCRIS and NTP	RED
Dicyclohexylamine	Activator	101-83-7	HSDB, NTP, NJ-HSFS and FAMSDS	RED
Nonylphenol polyethylene glycol ether	Processing aid	127087-87-0	WWF list and fisher MSDS 08/02/2000	RED





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TOXICS REDUCTION - EPR

TRADITIONAL RUBBER

Number of "Red" Chemicals:

5

"Red" Chemicals by weight

12%



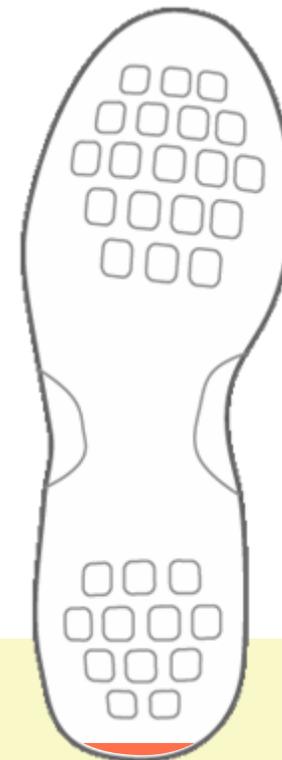
ENVIRONMENTALLY PREFERRED RUBBER

Number of "Red" Chemicals:

1

"Red" Chemicals by weight

1%



REDUCED TOXICS
96% BY WEIGHT





By using
We have eliminate
3,000 metric tons

EP Rubber
toxics

A relatively small volume for the rubber industry

BUT

A BIG (GREEN) STEP IN THE FOOTWEAR INDUSTRY





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Our "REMINDER" Slide

