CHARACTERIZATION: OUR OWN GENERIC RISK ASSESSMENT

Priority 1 Hazards > 0.1%
• Carcinogen Category 1
• Mutagen Category 1 and 2
• Reproductive toxin Category 1
• Endocrine Disruptor (HH/ENV) Category 1
• PBT, vPvB (poss. lower cutoff)
• Ozone Depleting substance

Priority 2 Hazards > 1%
• Carcinogen Category 2
• Reproductive toxin Category 2
• Endocrine Disruptor category (HH/ENV) 2
• Respiratory Sensitiser 1
• Skin sensitisier 1
• STOT SE & RE 1 and 2
• Aquatic Acute 1 & Chronic 1/2
• PMT
• vPvM

High Exposure Scenarios
Unknown Consumer Professional

Low Exposure Scenarios
Industrial Intermediate

Higher Risk
Lower Risk
Non-Hazardous Products
Safer Materials Risk Management
Safer Materials Opportunities

High level hazard and exposure information will allow for broad portfolio characterization in a relatively simplified way across thousands of products.
Priority substance strategies could fall in any or multiple of these areas. Not all hazardous chemistry needs to be eliminated for chemicals to be safe.
DEVELOPING THE NEXT GENERATION OF SAFER PRODUCTS

Dow’s Toxicology and Environmental Research group is focused on internal and external tools that can help us ensure each successive generation of chemistry is safer and more sustainable.