

**Table S4.** Green chemistry technology assessment index/proxy variable with related data

Index	Proxy variable		Related data
Environment	GHG	GHG emissions IRIS category	- kg-CO <sub>2</sub> conversion - IRIS (US EPA)
	Hazardous substances	PEL R-Phrase EC <sub>50</sub>	- PEL (OSHA) - EU Directive 67/548/EEC - EC <sub>50</sub> (US EPA_ECOTOX)
Safety	Risk for explosion/fire	R-Phrase	- EU Directive 67/548/EEC
Resource	Depleting resource	Resource consumption	- Material balance (GHG, metal)
Economy	Production cost/retail price	Market share	- Production cost: actual or estimated
		Production cost	- Retail price: actual or estimated
		Retail price	

GHG, greenhouse gas; IRIS, Integrated Risk Information System; EPA, Environmental Protection Agency; PEL, permissible exposure limit; OSHA, Occupational Safety and Health Administration; EU, European Union; EC50, median effective concentration; R-Phrase, risk phrase.