

Chemical Hazard Evaluation (template)	
Chemical Name:	CAS #:
Endpoint [Source]	Data
Environmental	
Water (days) [United States Environmental Protection Agency (US EPA) PBT Profiler; ECHA-RR (European Chemicals Agency – REACH Registration Database)]	
Soil (days) [US EPA PBT Profiler; ECHA-RR]	
Sediment (days) [US EPA PBT Profiler; ECHA-RR]	
Air (days) [US EPA PBT Profiler; ECHA-RR]	
BCF [US EPA PBT Profiler; ECHA-RR] or log Kow [Hazardous Substances Data Bank (HSDB); ECHA-RR]	
Acute Aquatic Toxicity LC₅₀ or EC₅₀ [HSDB; ECHA-RR]	
Chronic Fish Toxicity (ChV) (mg/l) [US EPA PBT Profiler; HSDB; ECHA-RR]	
Environmental Fate [HSDB; ECHA-RR]	
Health	
Carcinogenicity [International Agency for Research on Cancer (IARC); California Office of Environmental Health Hazard Assessment Proposition 65 List of chemicals known to the State of CA to cause cancer or birth defects or other reproductive harm (Prop 65); National Institute for Occupational Safety and Health Pocket Guide (NIOSH-PG); ECHA-RR; et al]	
Mutagenicity/Genotoxicity [Chemical Carcinogenesis Research Information System; GENETOX; Registry of Toxic Effects of Chemical Substances (RTECS-Expub); ECHA-RR]	
Reproductive/Developmental Toxicity (e.g. include neurodevelopmental) [Prop 65; Developmental and Reproductive Toxicology Database (DART); RTECS-Expub; HAZMAP; ECHA-RR]	
Asthmagen [Association of Occupational and Environmental Clinics (AOEC)]	
Sensitizer (Skin, Respiratory) [AOEC; HAZMAP; ECHA-RR]	
Irritant (Eye, Skin, Respiratory) [HAZMAP; HSDB; MSDS; ECHA-RR]	
Neurotoxicity [HAZMAP; literature]	
Acute Mammalian Toxicity LD₅₀ (Oral, Dermal) [ChemIDPlus; HSDB; RTECS-Expub; ECHA-RR]	
Acute Mammalian Toxicity LC₅₀ (Inhalation) [ChemIDPlus; HSDB; RTECS-Expub; ECHA-RR]	
Endocrine Disruption [The Endocrine Disruption Exchange List of Potential Endocrine Disruptors (TEDX); European Commission ED]	
Target Organs [NIOSH-PG; HAZMAP]	

Breakdown Products	
Metabolism Information [HSDB; ECHA-RR]	
Byproducts [HSDB]	
Combustion Byproducts [HSDB]	
Exposure Indicators/Relative Measures of Toxicity	
OSHA PEL (<i>Occupational Safety and Health Administration Permissible Exposure Limit</i>) [NIOSH-PG; HSDB; RTECS-Expub]	
NIOSH REL (<i>NIOSH Recommended Exposure Limit</i>) [NIOSH-PG; HSDB; RTECS-Expub]	
NIOSH IDLH (<i>NIOSH Immediately Dangerous to Life and Health</i>) [NIOSH-PG; HSDB]	
ACGIH TLV-TWA [American Conference of Governmental Industrial Hygienists (Threshold Limit Value – Time Weighted Average); RTECS-Expub]	
RfD (<i>Reference Dose</i>) [US EPA Integrated Risk Information System (IRIS)]	
RfC (<i>Reference Concentration</i>) [IRIS]	
GHS Phrases [Sigma-Aldrich MSDS; Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)]	
Safety	
Flash Point [NIOSH-PG; HSDB; ECHA-RR]	
Flammability [HSDB; ECHA-RR]	
Vapor Density [HSDB]	
Vapor Pressure [NIOSH-PG; HSDB; ECHA-RR]	
Lower Explosive Limit (LEL) [NIOSH-PG; HSDB]	
Upper Explosive Limit (UEL) [NIOSH-PG; HSDB]	
Reactivity [NIOSH-PG; HSDB; ECHA-RR]	
Boiling Point [NIOSH-PG; HSDB; ECHA-RR]	
Regulatory - Domestic	
Massachusetts Toxics Use Reduction Act List [MA-TURA]	
California OEHHA Proposition 65 List [Prop 65]	
US EPA High Production Volume Chemical [HPV]	
Regulatory – International	
Canadian Domestic Substances List [DSL]	
REACH Substances of Very High Concern [SVHC]	
International Chemical Secretariat Substitute It Now List	

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