



SECTION V — ANNEX 11

GreenScreen Specified Lists™



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TABLE A11.1: GreenScreen Specified Lists and Descriptions

Abbreviation	CPA List Type ¹	List Name	Associated GreenScreen Hazard Endpoints	URL and/or Reference ²
AOEC - Asthmagens	Authoritative B	Association of Occupational and Environmental Clinics (AOEC) - Exposure Code List	Respiratory Sensitization	The main AOEC website is at the first link below. The current list of substances can be searched or listed from the webpage at the second link below.
				http://www.aoec.org/tools.htm http://www.aoecdata.org/ExpCodeLookup.aspx
Boyes - Neurotoxicants	Screening B	Chemicals with Neurotoxicity-Based Occupational Exposure Standards (NIOSH/OSHA).	Developmental Toxicity including Developmental Neurotoxicity, Neurotoxicity	"Neurotoxicology and Behavior" chapter, William K. Boyes, Ph.D., et al.(eds.), in Patty's Industrial Hygiene and Toxicology, 2001 by John Wiley & Sons, Inc. Published Online: April 16, 2001. Chemicals listed in Table 25.1. (Updated 2012 version does not contain Table 25.1)
				http://onlinelibrary.wiley.com/doi/10.1002/O471435139.tox025/abstract
EC - CEPA Toxic Substances (Sched 1)	Screening B	Canadian Environmental Protection Act, 1999 (CEPA 1999): CEPA Toxic	PBT in "Multiple Endpoints"	A description of the CEPA Toxic Substances listing program appears at the first link. The current substance list is at the second link.
				http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=ODA2924D-1 http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=ODA2924D-1&wsdoc=4ABEFFC8-5BEC-B57A-F4BF-11069545E434



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EC - CEPA DSL	Screening A and B	Canadian Categorization Decisions for Substances on the Domestic Substance List (DSL).	Persistence, Bioaccumulation and "Multiple Endpoints" for PBT and Human Health	<p>Canadian Environmental Protection Act, 1999 (CEPA), September 2006. Description and specific lists by type (first link).</p> <p>The DSL categorization search engine is at the second link. Download the spreadsheet for "Categorization decisions for all DSL substances". Each column represents different endpoints: Column E - iT Human Column H - Persistence Column I - Bioaccumulation Column J - iT Environment</p>
				<p>http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=5F213FA8-1</p>
				<p>http://www.ec.gc.ca/lcpe-cepa/default.asp?lang=En&n=5F213FA8-1&wsdoc=D031CB30-B31B-D54C-0E46-37E32D526A1F</p>
US EPA - EPCRA Extremely Hazardous Substances	Authoritative B	EPCRA Section 302 Extremely Hazardous Substances	Acute Mammalian Toxicity	<p>Link leads to the USEPA Consolidated List of Lists, March 2015. GreenScreen utilizes only the EPCRA Section 302 Extremely Hazardous Substances. These are also listed in 40 CFR Part 355, Appendices A and B.</p>
				<p>http://www.epa.gov/epcra/epcracerclacaa-ss112r-consolidated-list-lists-march-2015-version</p>
US EPA - IRIS Carcinogens	Authoritative A and B	Integrated Risk Information System (IRIS) Database - Results from four separate cancer guideline regimes: 1986, 1996, 1999, and 2005.	Carcinogenicity	<p>US EPA Integrated Risk Information System home page (first link). Advanced search by substance ID (second link).</p>
				<p>http://www.epa.gov/ncea/iris/search_human.htm</p>
				<p>https://www.epa.gov/iris</p>

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EU - REACH Annex XVII CMRs	Authoritative A	Annex XVII to REACH includes all restrictions adopted in the framework of REACH and the previous legislation, Directive 76/769/EEC.	Carcinogenicity, Mutagenicity/ Genotoxicity, Reproductive Toxicity, Developmental Toxicity	<p>Access the full list of REACH Annex XVII chemicals using the first link below (Export search results function is at the bottom of the page). GreenScreen List Translator only includes C, M, and R substances from Entries 28, 29, and 30.</p> <p>The C, M, and R CASRN's referred to in Entries 28, 29 and 30 are listed in Appendices 1-6 of REACH Regulation EC (No) 1907/2006, which is updated semi-regularly through amendments (Second link below).</p>
				<p>https://echa.europa.eu/substances-restricted-under-reach</p>
				<p>https://echa.europa.eu/regulations/reach/legislation</p>
EU - Annex VI CMRs	Authoritative A	Annex VI to CLP Regulation (EC) No 1272/2008 includes a list of chemicals and the harmonised GHS Hazard Classifications.	Carcinogenicity, Mutagenicity/ Genotoxicity, Reproductive Toxicity, Developmental Toxicity	<p>ECHA provides an updated excel list of all harmonized classifications. Access the full list of CASRN's with associated harmonized GHS classifications using the first link below (Export search results function is at the bottom of the page).</p> <p>The second link is the source EU regulation for general reference: Table 3 of Annex VI to the CLP Regulation (EC) No 1272/2008.</p>
				<p>https://echa.europa.eu/information-on-chemicals/annex-vi-to-clp</p>
				<p>https://echa.europa.eu/regulations/clp/legislation</p>
EU - Priority Endocrine Disruptors	Screening A and B	European Union Priority List of suspected endocrine disruptors.	Endocrine Activity	<p>List developed from four EU studies published between 1999 and 2007. Categorization results contained in 1) reports and 2) a consolidated Microsoft Access database at the link below.</p>
				<p>http://ec.europa.eu/environment/chemicals/endocrine/strategy/substances_en.htm#priority_list</p>

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Abbreviation	CPA List Type ¹	List Name	Associated GreenScreen Hazard Endpoints	URL and/or Reference ²
EU - GHS (H-Statements) ⁵	Authoritative A and B	The EU country specific list is displayed separately as "EU - GHS (H-Statements)".	All endpoints, both individual and "Multiple Endpoints"	ECHA provides an updated excel list of all harmonized classifications. Access the full list of CASRNs with associated harmonized GHS classifications using the first link below (Export search results function is at the bottom of the page).
				https://echa.europa.eu/information-on-chemicals/cl-inventory-database
				https://echa.europa.eu/information-on-chemicals/annex-vi-to-clp
EU - ESIS PBT	Screening A	European Chemical Substances Information System (ESIS) PBT list	PBT and combinations in "Multiple Endpoints"	Chemicals that fulfill PBT and/or vPvB criteria and those that are Deferred are included in GreenScreen and provided at the following link. Do not include the chemicals which are labeled as "Not Fulfilling" the criteria and those "under evaluation".
				https://echa.europa.eu/information-on-chemicals/pbt-vpvb-assessments-under-the-previous-eu-chemicals-legislation
EU - SVHC Candidate List	Authoritative A and B	European Union Substances of Very High Concern Candidate List	Carcinogenicity, Mutagenicity/ Genotoxicity, Endocrine Activity, Reproductive and/or Developmental Toxicity, and PBT or vPvB in "Multiple Endpoints", and Equivalent Concern	https://echa.europa.eu/candidate-list-table
EU – SVHC Prioritisation List	Authoritative A and B	European Union Substances of Very High Concern Prioritisation List	Carcinogenicity, Mutagenicity/ Genotoxicity, Endocrine Activity, Reproductive and/or Developmental Toxicity, and PBT or vPvB in "Multiple Endpoints", and Equivalent Concern	Prioritisation list entries are chemicals from the EU – SVHC Candidate List that are prioritized for listing on the EU – Authorisation List. Export the spreadsheet using the following link and sort by "Recommended for inclusion in Annex XIV".
				https://echa.europa.eu/previous-recommendations

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Abbreviation	CPA List Type ¹	List Name	Associated GreenScreen Hazard Endpoints	URL and/or Reference ²
EU - SVHC Authorisation List	Authoritative A and B	European Union Substances of Very High Concern Subject to Authorization.	Carcinogenicity, Mutagenicity/ Genotoxicity, Endocrine Activity, Reproductive and/or Developmental Toxicity, PBT or vPvB in “Multiple Endpoints”, and Equivalent Concern	The List of Substances Subject to Authorisation (Annex XIV of the REACH Regulation) is found at the first link. Additional information on authorisation can be found at the second link.
				http://echa.europa.eu/addressing-chemicals-of-concern/authorisation/recommendation-for-inclusion-in-the-authorisation-list/authorisation-list
				http://echa.europa.eu/regulations/reach/authorisation
G&L - Neurotoxic Chemicals	Screening B	Grandjean & Landrigan, List of 201 Chemicals Known to be Neurotoxic in Humans.	Neurotoxicity and Developmental Toxicity (includes Developmental Neurotoxicity)	Grandjean, P & PJ Landrigan, "Developmental neurotoxicity of industrial chemicals," Lancet, v368: 2167-2178, 2006 (first link). Grandjean, P & PJ Landrigan, "Neurobehavioural effects of developmental toxicity," The Lancet Neurology, V13: 330–38, published 2014 (second link).
				http://www.ncbi.nlm.nih.gov/pubmed/17174709
				http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4418502/
IARC	Authoritative A and B	International Agency for Research on Cancer (IARC), Substances Reviewed in IARC Monographs and Supplements.	Carcinogenicity	Lists provided at the link below reference the relevant IARC monograph volume or supplement. Substances may be listed by CAS number, name or collectively as a substance group.
				http://monographs.iarc.fr/ENG/Classification/index.php



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MAK	Authoritative A and B	MAK Commission of Germany; Occupational Toxicants and MAK Values: Annual Thresholds and Classifications for the Workplace	Carcinogenicity, Reproductive and Developmental Toxicity (including Developmental Neurotoxicity), Skin and Respiratory Sensitization	The German Research Foundation's (DFG) Permanent Senate Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area ("MAK Commission") is at the first link. MAK Commission classification categories are available via PDFs at Wiley (second link, updated annually):
				http://www.dfg.de/en/dfg_profile/statutory_bodies/senate/health_hazards/index.html
US CDC - Occupational Carcinogens	Authoritative A	National Institute of Occupational Safety and Health Carcinogen List	Carcinogenicity	NIOSH's carcinogen policy is described at the first link below. The current occupational carcinogen list is at the second link
				http://www.cdc.gov/niosh/topics/cancer/policy.html
US NIH - Reproductive & Developmental Monographs	Authoritative A and B	US National Institutes of Health, National Institute of Environmental Health Sciences, National Toxicology Program (NTP) Studies on Reproductive and Developmental Toxicity	Reproductive and Developmental Toxicity	The NIEHS Office of Health Assessment and Translation (OHAT) can be found at the first link. Reports and monographs from NTP studies (ongoing and completed) can be found at the second link.
				http://www.niehs.nih.gov/research/atniehs/dntp/assoc/ohat/index.cfm
				http://ntp.niehs.nih.gov/pubhealth/hat/noms/index.html



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Abbreviation	CPA List Type ¹	List Name	Associated GreenScreen Hazard Endpoints	URL and/or Reference ²
US NIH - Report on Carcinogens	Authoritative A	US National Institutes of Health, National Institute of Environmental Health Sciences, National Toxicology Program (NTP), Report on Carcinogens (RoC)	Carcinogenicity	The Report on Carcinogens (RoC) is prepared by the National Toxicology Program (NTP) on behalf of the Secretary, Health and Human Services (description at the first link). The latest RoC edition is available at the second link.
				http://ntp.niehs.nih.gov/pubhealth/roc/index.html
				http://ntp.niehs.nih.gov/pubhealth/roc/roc12/index.html
US EPA - Priority PBTs (NWMP)	Authoritative A	US Environmental Protection Agency (EPA), National Waste Minimization Program, Priority Chemicals	PBT in "Multiple Endpoints"	The National Waste Minimization Program Priority Chemicals List can be found at the link below. Additional descriptive information is included in list footnotes.
				https://www.dtsc.ca.gov/SCP/upload/1-L-US-EPA_NWM.pdf
OR DEQ - Priority Persistent Pollutants	Screening A	Oregon Department of Environmental Quality (DEQ) Priority Persistent Pollutant (P3) List, required in Oregon Senate Bill 737	PBT in "Multiple Endpoints"	The main website describing the list and process are at the first link. The second link contains a PDF list of P3 substances including technical listing criteria.
				http://www.deq.state.or.us/wq/SB737
				http://www.deq.state.or.us/wq/SB737/docs/LegRpAtt20100601.pdf
OSPAR	Authoritative B and Screening B	OSPAR Convention for the Protection of the Marine Environment of the North-East Atlantic, List of Chemicals for Priority Action and List of Substances of Possible Concern	PBT in "Multiple Endpoints"; Endocrine Disruption	The first link contains an overview of the OSPAR hazardous substances program. The List of Chemicals for Priority Action (as a Microsoft Word document) appears at the second link. A List of Substances of Possible Concern (as a webpage) appears at the third link.
				http://www.ospar.org/work-areas/hasec/chemicals/overview
				http://www.ospar.org/work-areas/hasec/chemicals/priority-action
				http://www.ospar.org/work-areas/hasec/chemicals/possible-concern/list

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Abbreviation	CPA List Type ¹	List Name	Associated GreenScreen Hazard Endpoints	URL and/or Reference ²
CA EPA - Prop 65	Authoritative A	State of California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act Of 1986) Chemicals Known to the State to Cause Cancer or Reproductive Toxicity	Carcinogenicity, Reproductive and Developmental Toxicity (including Developmental Neurotoxicity)	Prop 65 descriptive information is at the first link below. The second link provides the current list of substances.
				http://oehha.ca.gov/proposition-65/about-proposition-65 http://oehha.ca.gov/proposition-65/proposition-65-list
CA EPA - Prop 65 (with qualifications) ³	Authoritative B	State of California Environmental Protection Agency, Office of Environmental Health Hazard Assessment (OEHHA) California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act Of 1986) Chemicals Known to the State to Cause Cancer or Reproductive Toxicity	Carcinogenicity, Reproductive and Developmental Toxicity (including Developmental Neurotoxicity)	Prop 65 descriptive information is at the first link below. The second link provides the current list of substances.
				http://oehha.ca.gov/proposition-65/about-proposition-65 http://oehha.ca.gov/proposition-65/proposition-65-list
ChemSec - SIN List	Screening A and B	International Chemical Secretariat (ChemSec) Substitute it Now (SIN) List	Endocrine Activity and "Multiple Endpoints" for CMR (Carcinogenicity, Mutagenicity/ Genotoxicity; Reproductive and Developmental Toxicity), PBT and vPvB	A description of ChemSec is available at the first link below. The current SIN List can be searched or listed in full at the website at the second link below.
				http://chemsec.org/about-us http://sinlist.chemsec.org/
UNEP Stockholm Conv - Persistent Organic Pollutants	Authoritative A	United Nations Environment Programme (UNEP), Stockholm Convention Secretariat Stockholm Convention on Persistent Organic Pollutants (POPs)	POP in PBT "Multiple Endpoints"	The main Stockholm Convention website is at the first link below. The current POP chemicals are listed on the webpage at the second link below.
				http://chm.pops.int/ http://chm.pops.int/TheConvention/ThePOPs/ListingofPOPs/tabid/2509/Default.aspx



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TEDX - Potential Endocrine Disruptor	Screening B	The Endocrine Disruptor Exchange (TEDX) List of Potential Endocrine Disruptors	Endocrine Activity	The main TEDX website is at the first link below. The current list of potential endocrine disruptors can be searched or listed from the webpage at the second link below.
				http://endocrinedisruption.org/
				http://endocrinedisruption.org/endocrine-disruption/tedx-list-of-potential-endocrine-disruptors/chemicalsearch
US EPA - Toxics Release Inventory PBTs	Authoritative A	US Environmental Protection Agency (EPA), Toxics Release Inventory (TRI) Program, “TRI PBT Chemical List”	PBT in "Multiple Endpoints"	The main EPA TRI website is at the first link below. The current TRI-PBTs are listed on the webpage at the second link.
				http://www2.epa.gov/toxics-release-inventory-tri-program
				http://www2.epa.gov/toxics-release-inventory-tri-program/persistent-bioaccumulative-toxic-pbt-chemicals-covered-tri
German FEA - Substances Hazardous to Waters	Screening B	German Federal Environment Agency, Administrative Regulation on the Classification of Substances hazardous to waters into Water Hazard Classes (Verwaltungsvorschrift wassergefahrdende Stoffe - VwVwS)	PBT in "Multiple Endpoints"	Information on the listing process and governing regulation is found at the first link below. A database of chemicals and classifications (Rigoletto) is at the second link.
				http://www.umweltbundesamt.de/en/topics/chemicals/substances-hazardous-to-waters
				http://webrigoletto.uba.de/rigoletto/public/searchRequest.do?event=request
WA DoE - PBT	Screening A	State of Washington, Department of Ecology, Chapter 173-333 WAC Persistent Bioaccumulative Toxins	PBT in "Multiple Endpoints"	The WA Department of Ecology PBT program website is at the first link below. The current PBTs are listed on the webpage at the second link.
				http://www.ecy.wa.gov/programs/hwtr/RTT/pbt/index.html
				http://www.ecy.wa.gov/programs/hwtr/RTT/pbt/list.html



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Québec CSST - WHMIS 1988	Authoritative B and Screening A and B	Workplace Hazardous Materials Information System: Controlled Product as defined in Part IV of the Controlled Product Regulations (Canada)	Acute Mammalian Toxicity, Reactivity, Flammability and “Multiple Endpoints”	Description of the WHMIS is available at the first link below. The Quebec CSST site (second link) contains a list of controlled products, also available by CAS number and as a txt or PDF file.
				http://www.hc-sc.gc.ca/ewh-semt/occup-travail/whmis-simdut/index-eng.php
				http://www.csst.qc.ca/en/prevention/reptox/Pages/list-whmis-1988-cas-50-84.aspx
GHS-[Country] ⁴	Screening A and B	Includes all publically accessible lists of chemicals classified using the Globally Harmonized System of Classification and Labeling and published by an authoritative governmental organization of a country. The countries with published lists include Australia, Indonesia, Japan, Korea, Malaysia, Taiwan, and Thailand. The EU country-specific list is covered under the Authoritative A Specified List titled "EU H-Statements".	All endpoints including human health, ecotoxicity, fate and physical hazard endpoints.	See Country-specific lists below for information on how to access each country's list of chemicals and classifications.

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GHS - Australia	Screening A	The chemicals on this list include those listed by the EU, in addition to those classified by the Australian National Industrial Chemical Notification and Assessment Scheme and those assessed under the Australian Agricultural and Veterinary Chemicals Code Act 1994.	All human health, ecotoxicity, and physical hazard endpoints.	<p>The Hazardous Chemical Information System (HCIS) is a database that allows you to find information on chemicals that have been classified in accordance with the GHS. Download the list using the link below.</p> <p>http://hsis.safeworkaustralia.gov.au/GHSInformation/GHS_Hazardous_Chemical_Information_List</p>
GHS - Japan	Screening A	Japanese List of Chemicals and their assigned GHS Classification.	All human health, ecotoxicity, fate and physical hazard endpoints.	<p>The NITE Chemical Risk Information Platform (NITE-CHRIP) database can be used to search for GHS Classifications for chemicals individually. To retrieve a full list of CASRNs, "check all the boxes" in the "GHS Classification Results by the Japanese Government" section, which is a subsection under "Chemical Hazard and Risk Information".</p> <p>http://www.nite.go.jp/en/chem/chrip/chrip_search/srhInput</p>
GHS - Korea	Screening A	Korea List of Chemicals and their assigned GHS Classification.	All human health, ecotoxicity, and physical hazard endpoints.	<p>The Korean National Chemicals Information System (NCIS) can be used to search for GHS Classifications for chemicals. GreenScreen List Translator only includes chemicals in 5 broad search categories: Phase-in substances subject to registration, Toxic Substances, Restricted Substances, Prohibited Substances, and Substances requiring preparation for accidents. Search each category, as a chemical may be on one list and not another.</p> <p>http://ncis.nier.go.kr/en/main.do</p>
GHS - Malaysia	Screening A	Malaysia List of Chemicals and their assigned GHS Classification.	All human health, ecotoxicity, and physical hazard endpoints.	<p>The Chemical Search database provided by the Malaysia Department of Environmental Safety and Health (DOSH) can be used to search for GHS Classifications for individual chemicals only.</p> <p>http://cims.dosh.gov.my/</p>

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GHS - New Zealand	Screening A	New Zealand List of Chemicals and their assigned GHS Classification.	All human health, ecotoxicity, and physical hazard endpoints.	<p>The Chemical Classification and Information Database (CCID) provided by the New Zealand Hazardous Substances and New Organisms (HSNO) can be used to search for hazards of individual chemicals (first link). New Zealand uses their own classification terminology which need to be converted to GHS classification categories to be used in the List Translator. A document describing the translation from HSNO to GHS classification is available at the second link.</p> <p>http://www.epa.govt.nz/search-databases/Pages/HSNO-CCID.aspx</p> <p>http://www.epa.govt.nz/Publications/hsnoge-n-ghs-nz-hazard.pdf</p>

¹See Table A11.2 for List Definitions.

²Reference URL links provided here are external links managed by other organizations and are dynamic in nature. CPA will make every effort to keep the links up to date.

³Hazards may be form-specific or based on limited exposure pathways. Listing of a chemical should always be supported by data from literature.

⁴GreenScreen List Translator uses the GHS Categories (e.g., Carcinogen Category 1A) to derive scores for GHS-[COUNTRY] lists. Lists available in each country will contain either the GHS Categories and/or GHS H-statements for chemicals. The latest revision of GHS can be used to determine equivalencies between GHS Categories and H-Statements (https://www.unece.org/trans/danger/publi/ghs/ghs_welcome_e.html). The exception is the GHS – [NEW ZEALAND] list, where their classification codes must be converted to GHS categories manually. In addition, Due to problems with translation and access, the lists for Indonesia, Taiwan and Thailand are not required in GreenScreen List Translator Version 1.4 and have not been included in automated tools at this time. These lists will be included as they become available.

⁵R-Phrases are no longer required in GreenScreen List Translator. When conducting a manual GreenScreen List Translator assessment, use Table 1.1 CLP Regulation (EC) No 1272/2008 for translating any R-Phrases into H-statements first, if needed (Access the full English (EN) at <http://echa.europa.eu/regulations/clp/legislation>).

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TABLE A11.2: Specified List Definitions

List Type		Definition	Can you modify results?	Level of Confidence
Authoritative Lists		Authoritative lists are generated by recognized experts, often as part of a government regulatory process to identify chemicals and known associated hazards. These lists are considered to be of high reliability and should only be changed when new data or special circumstances clearly indicate that a new level-of-concern is warranted. Intervention of a Licensed Profiler or CPA's Toxicologist would be required to validate such a change.		
	Authoritative A	This category in the list translates directly to one of the following: 1) a single hazard classification for a single GreenScreen hazard endpoint, or 2) a single Benchmark.	NO	High
	Authoritative B	Categories that meet one or more of the following: 1) This category in the list incorporates a single GreenScreen hazard endpoint and does not translate directly to a single hazard classification or Benchmark; AND/OR 2) This category in the list refers to more than one GreenScreen hazard endpoint; AND/OR 3) This category in the list specifies that the hazard is associated with a specific form of the substance or a specific exposure route.	YES	Low
Screening Lists		Screening Lists result in a classification with a lower level of confidence because at least one of the following is true of the list. It was: a. developed using a less comprehensive review, b. compiled by an organization that is not considered to be authoritative, c. developed using predominantly or exclusively estimated data, or d. developed to identify chemicals for further review and/or testing.		
	Screening A	This category in the list translates directly to one of the following: 1) a single hazard classification for a single GreenScreen hazard endpoint, or 2) a single Benchmark.	YES	Low
	Screening B	Categories that meet one or more of the following: 1) This category in the list incorporates a single GreenScreen hazard endpoint and does not translate directly to a single hazard classification or Benchmark; AND/OR 2) This category in the list refers to more than one GreenScreen hazard endpoint; AND/OR 3) This category in the list specifies that the hazard is associated with a specific form of the substance or a specific exposure route.	YES	Low