

## Revised\* Reference Chart for Designated Materials

### Key for using the Reference Chart

<b>A. Designated materials</b>	Lists the 22 categories designated under the consolidated MHSW
<b>B. Description</b>	Provides a description of each material category
<b>C. Sectors</b>	Identifies which sector (s) materials must be sold into to be included in the consolidated MHSW program, either: <ul style="list-style-type: none"> <li>- The residential sector; and/or</li> <li>- All industrial-commercial-institutional (IC&amp;I) sectors; and/or</li> <li>- Designated IC&amp;I businesses (e.g. small quantity generator i.e. a business that generates MHSW and is not required to submit a generator registration report as per subsection 18(1) of Regulation 347 under the Environmental Protection Act and that does not return more than 100 kg per month of MHSW through the program)</li> </ul>
<b>D. Product Examples</b>	Contains an expanded list of product examples. <i>Note: this is not intended to be an exhaustive list</i>
<b>E. Exclusions</b>	Identifies product exemptions for each material category. <i>Note: this does not mean that products are necessarily excluded from the program</i>
<b>F. Unit of Measure</b>	Contains the unit of measure that stewards will be required to report <i>Note: "Measured Return Share" applies to materials where sufficient data was either not available or to obsolete products where it was not possible to set accurate fees. It applies to Toxics, Reactives and Leachates, banned Pesticides, Fertilizers containing banned pesticides, Mercury Switches &amp; Measuring Devices. Research and analysis will be conducted throughout the year to determine quantities of materials collected under the consolidated MHSW program and costs will be allocated to the appropriate steward(s).</i>
<b>G. Changes from Phase 1</b>	Identifies if the material was included in Phase 1 and if there have been any changes to the definition


Updated: January 29, 2010

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You are a steward  
if you are a brand  
owner or 1<sup>st</sup> importer  
of any of the  
following categories



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Aerosols	All aerosol containers used to dispense products  May display symbol 	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Spray paints and lacquers; furniture spray; cleaning products; hairspray; air freshener; shaving cream; stain remover; sun block; pain relief sprays; Do-It-Yourself (DIY) products; food products e.g. whipped cream; cheese; cooking spray etc.		Units sold	
Antifreeze	Antifreeze sold packaged or antifreeze sold in bulk format  Bulk format means un-packaged antifreeze e.g. delivered using a tanker trailer or sold in containers greater than 30 litres	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Ethylene and propylene glycol used as vehicle engine coolant. Also used for Heating, Ventilation and Air Conditioning (HVAC) systems.	<b>Reported under Flammables</b> - windshield washer fluid; plumbing antifreeze; airbrakes and fuel antifreeze; lock de-icer; vehicle product marketed as industrial heat transfer fluid  <b>Excluded from the program</b> - initial “factory fill” product	Volume in litres	Phase 1 material - definition has changed under the consolidated MHSW plan

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<b>Batteries – Consumer-Type (Portable)</b>	Singles use batteries of all chemistries that weigh 5kg or less.	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ All IC&amp;I generators</li> </ul>	All chemistries including alkaline; lithium; small sealed lead acid batteries etc. for flashlights; toys; smoke detectors; radios; phones; emergency kits; outdoor lighting. Also includes batteries embedded in other products such as remote controls; watches, calculators; greeting cards etc.		Weight in kilograms (different fee rates apply for each chemistry)	Single Use Batteries were included in Phase 1 - the definition has expanded under the consolidated MHSW plan
<b>Batteries - Rechargeable</b>	Rechargeable batteries of all chemistries that weigh 5kg or less.	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ All IC&amp;I generators</li> </ul>	All chemistries including alkaline; lithium; small sealed lead acid batteries etc. for flashlights; toys; smoke detectors; radios; phones; emergency kits; outdoor lighting. Also includes batteries embedded in other products such as portable computers; cordless power tools; cellular phones; greeting cards etc.		Weight in kilograms (different fee rates apply for each chemistry)	

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<b>Batteries – Industrial Stationary and Non-Lead Acid Motive</b>	<p><b>Industrial stationary batteries</b> of all chemistries designed to stay in place and weighing more than 5kg used for applications such as provision of uninterrupted power supply</p> <p><b>Non-lead acid motive batteries</b> weighing more than 5kg used for automotive applications, and other motive power applications such as in the railway, marine and aircraft industries</p>	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ All IC&amp;I generators</li> </ul>	<p><b>Industrial stationary batteries</b> - all chemistries including nickel cadmium; lithium ion; lead acid etc for emergency back up systems; emergency lighting; fire protection; alternative energy systems (solar or wind etc.); starters for jet aircraft and turbines;</p> <p>telecommunications transmission and switching systems</p> <p><b>Non-lead acid motive batteries</b> - all chemistries including lithium ion; lithium phosphate; nickel cadmium; nickel-metal hydride etc. used to provide power for electric and hybrid vehicles; golf carts and forklifts; and to power accessories like headlights, lighting, and heating for other motive applications such as in the aircraft, marine and rail industries</p>	<p><b>Motive batteries excluded from the program</b> - lead acid batteries from vehicles</p>	<p>Flat fee per Steward applies in Year 1 pending completion of research and analysis</p>	

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<p><b>Corrosives (Includes Irritants)</b></p> 	<p><b>Corrosives:</b> Products (acids and bases) that are required by federal law to bear the corrosive ("bony hand") symbol [as defined in CCCR, 2001 Regulations]</p> <p><b>Irritants:</b> Products which are required by federal law to bear the words "CAUTION and IRRITANT" but that do not bear the corrosive ("bony hand") symbol [classified as an "irritant" in the CCCR regulations]</p>	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	<p><b>Corrosives:</b>  <b>Acids</b> (e.g., muriatic, sulphuric, etc.) - acidic cleaning products; de-scalers; drain openers; pool and spa chemicals; rust removers; wallpaper strippers; metal cleaners  <b>Bases</b> (e.g. sodium hydroxide etc.) - jewellery cleaners; bathroom cleaners; bleaches; toilet bowl cleaner products; drain cleaners/openers; paint remover; masonry products (cement powders); auto-body filler; tire cleaners  <b>Irritants:</b>  Mild acids or bases primarily used for cleaning purposes e.g. air care; bathroom cleaners; cleaning solvents; laundry detergent; spot removers; dishwashing products; glass cleaners</p>	<p><b>Reported under Irritants</b> - products identified as "irritants" under CCCR 2001</p>	<p>Units sold</p> <p>For information on <b>how to report products with multiple properties</b> (e.g. Corrosive and Flammable), please refer to the document <a href="#">"Decision Process for Materials with multiple properties"</a> on the SO website</p>	

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<b>Fertilizers</b>	Products sold as "plant nutrients" packaged in containers weighing 30kg/L or less	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Registered fertilizers; unregistered fertilizers; and any product making a nutrient claim e.g. shrub and tree food; lawn fertilizer; rose fertilizer; multipurpose fertilizer	<p><b>Excluded from the program -</b></p> <ul style="list-style-type: none"> <li>- Fertilizers in containers weighing more than 30 kg</li> <li>- Unregistered supplements, incl. composts only for improving soil physical condition with no nutrient claim</li> <li>- Fibrous organic materials incl. peat, peat moss, sphagnum moss, tree bark and other materials only for improving soil physical condition with no nutrient claim</li> <li>- Animal / vegetable manures sold in natural condition exempt from Fertilizer Act and Regulations, as outlined in section 3 (1) (a) (refers to unaltered, unpackaged manures produced by farm's herd sold by farmer directly to end-user)</li> <li>- Any substance not meeting the definition in Fertilizers Act and Regulations</li> </ul>	<ul style="list-style-type: none"> <li>- <b>Fertilizers containing a banned pesticide</b> - Measured return share</li> <li>- <b>Products marketed as compost, soil, manure, and composted manure that make a nutrient claim</b> - Weight or volume in Kg/ L</li> <li>- <b>All remaining products that meet the fertilizer definition not captured in Category 1 or 2 above</b> Weight or volume in kg/L</li> </ul>	Phase 1 material - definition has changed under the consolidated MHSW plan

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<p><b>Fire Extinguishers (Portable)</b></p>	<p>Portable devices, carried or on wheels, operated by hand, containing an extinguishing agent expelled under pressure for suppressing or extinguishing fires</p>	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	<p>Extinguishers for electrical, combustible, flammable / combustible &amp; laboratory fires</p>	<p><b>Excluded from the program</b> - portable extinguishers sold exclusively for commercial and/or industrial use and not available for retail consumption</p>	<p>Units sold according to the following three categories:</p> <ul style="list-style-type: none"> <li>- less than or equal to 2.5 lbs</li> <li>- greater than 2.5 lbs and less than or equal to 5.5 lbs</li> <li>- greater than 5.5 lbs</li> </ul>	
<p><b>Flammables (including Solvents)</b></p> 	<p>Flammable and combustible materials required by law to display either the flammable or combustible symbol or the words "Keep away from flames or sparks" and sold in containers less than 30 litres</p>	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Assorted flammables:</b> Camping fuel; solid fuels; propane; butane; kerosene; adhesives; cleaners; caulking; filler; grout; fibreglass resins; thinners; sealers; strippers; undercoating; patches; driveway sealers; waxes; polishes; wood preservatives; acetylene</li> <li>• <b>Automotive additives</b> Fuel enhancers; de-icer; gas-line antifreeze</li> <li>• <b>Windshield washer fluids</b></li> <li>• <b>Solvents</b> Paint thinners, lacquer thinners, automotive body resin solvents, contact cement thinners, paint strippers and degreasers; waxes; polishes; wood preservatives; mineral spirits; linseed oil etc.</li> <li>• <b>Gasoline</b> All automotive fuels</li> </ul>	<p><b>Excluded from the program</b> -</p> <ul style="list-style-type: none"> <li>- Products sold in containers 30 litres or more</li> <li>- Beverages</li> </ul> <p><b>Report under Aerosols</b> - Solvents in Aerosols</p>	<p>Volume in Litres</p> <p>For information on <b>how to report products with multiple properties</b> (e.g. Flammable and Corrosive), please refer to the document <a href="#">"Decision Process for Materials with multiple properties"</a> on the SO website</p>	<p>Solvents are a Phase 1 material - now reported under the new Flammables category under consolidated MHSW</p>

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<b>Fluorescents - User Removed</b>	Compact fluorescent light bulbs and fluorescent tubes and also includes cold-cathode fluorescents lamps (CCFLs)	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator (<i>generating 5kg or less per month</i>)</li> </ul>	Bulbs and tubes for indoor and outdoor lighting fixtures and appliances.	<b>Excluded from the program</b> - non-fluorescent light bulbs such as incandescent, gas discharge, halogen or LED	<b>CCFL Bulbs</b> - Units sold <b>Tubes</b> – Units sold based on 3 lengths: - shorter than 2 ft - between 2 ft and 4 ft - greater than 4 ft	
<b>Fluorescents – Embedded in designated EEE</b>	Cold-cathode fluorescents lamps (CCFLs) embedded in designated Electrical & Electronic Equipment	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator (<i>generating 5kg or less per month</i>)</li> </ul>	CCFLs used for backlighting in liquid crystal displays (LCDs) (e.g. monitors; portable computers; display devices and printing; copying and multi function devices.)	- <b>Excluded from the program</b> - non-fluorescent light bulbs such as incandescent, gas discharge, halogen or LED	<b>Units sold based on 4 sub-categories:</b> - Display devices less than or equal to 29" - Display devices greater than 29" - Portable computers - Printing, copying & multi function devices	
<b>Leachates</b>	Refers to materials that upon extraction produce an extract containing a toxic substance in a quantity greater than the limit identified in Ontario Regulation 347	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Light ballasts (e.g. from fluorescents) <i>(Additional products to be identified in Year 1)</i>		Measured return share  For information on <b>how to report products with multiple properties</b> (e.g. Leachate and Corrosive), please refer to the document <a href="#">“Decision Process for Materials with multiple properties”</a> on the SO website	
<b>Mercury Devices</b>	Measuring devices containing mercury	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Thermometers (both fever and non-fever); barometers; manometers; hydrometers etc.		Measured return share	

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<b>Mercury Devices</b> <i>(continued...)</i>	Mercury Switches - Automotive (devices that open or close an electrical circuit)	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Switches in vehicles		Measured return share	
	Mercury Switches – White Goods (devices that open or close an electrical circuit, or a liquid or gas valve)	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Switches in appliances (i.e. chest freezers & gas ranges) activated by temperature, pressure or liquid level etc.		Measured return share	
	Mercury Switches – Other (devices that open or close an electrical circuit, or a liquid or gas valve)	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Switches in other products (e.g. bilge pumps) activated by temperature, pressure or liquid level etc.		Measured return share	
	Thermostats - Products that use a mercury switch to regulate room temperature	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Thermostats		Measured return share	
<b>Oil Containers</b>	Containers with a volume of 30 litres or less sold with petroleum derived or synthetic oil for lubricating machinery or equipment	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Synthetic crankcase or engine oil; hydraulic and transmission fluids; gear oil; power steering fluid; marine cylinder oil; natural gas compressor oil; vegetable oil for lubrication etc.		Volume in Litres	Phase 1 material - no changes to the definition
<b>Oil Filters</b>	Oil filters produced and/or arriving into the province, and which are for sale in Ontario, or used, directly or as part of a product or piece of equipment	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Spin-on or element style filter used in hydraulic, transmission or internal combustion engine applications e.g. household furnace fuel filters; coolant filters; storage tank diesel fuel filters; sump type automatic transmission filters; plastic or paper element style filters; diesel fuel filters used at retail & commercial pump islands	<b>Excluded from program</b> - gasoline fuel filter; air filter; household furnace air filter; sock-type filter	Units sold	Phase 1 material - no changes to the definition

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<b>Paint &amp; Coatings</b>	All architectural, consumer automotive and consumer marine paints and coatings sold in containers of 30 litres or less	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Alkyd (oil) paints; latex paints; solvent-based stains and coatings; water-based stains and coatings; primer; basecoat	<b>Reported under Aerosols</b> - paint contained in aerosols <b>Excluded from program</b> - products sold in containers with a volume greater than 30 litres	Units sold	Phase 1 material - definition has changed under the consolidated MHSW plan
<b>Pesticides, fungicides &amp;/or herbicides</b>	All registered fungicides, herbicides, insecticides, and pesticides with a DOMESTIC classification (includes those banned for sale in Ontario in April 2009.)	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Insect repellents; flea/tick collars for pets; weed killers; pest control products	<b>Reported under Aerosols</b> – any products packaged in aerosols	<b>Banned pesticides</b> – Measured return share <b>Non-banned pesticides</b> – Volume in Litres or Kg	Phase 1 material - definition has changed under the consolidated MHSW plan
<b>Pharmaceuticals</b>	All prescription medications for human & animals	<ul style="list-style-type: none"> <li>✓ Residential only</li> </ul>	Includes all pills, capsules, liquids preparations and creams e.g. analgesics; cough medicines; anti-depressants; anti-nauseates; stimulants		<b>Pills</b> – Option 1: report number of pills sold (or report by weight below) <b>Solids by weight</b> – report in grams (includes creams, powders, or pills) Option 2: include pills by weight <b>Liquids</b> - to be reported in millilitres	

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<b>Pharmaceuticals</b> <i>(continued...)</i>	Non-prescription/ Over-The-Counter medications with DINs limited to: <ul style="list-style-type: none"> <li>• Orally ingested</li> <li>• Topical antibiotic and anti-fungal creams</li> </ul>	✓ Residential only	Cough and cold remedies; stomach remedies; acne preparations	<b>Excluded from program</b> - “food” and products in food format; orally ingested drops; lozenges; chewing gum for cough; sore throats or halitosis	<b>Pills</b> – Option 1: report number of pills sold (or report by weight below) <b>Solids by weight</b> – report in grams (includes creams, powders, or pills) Option 2: include pills by weight <b>Liquids</b> - to be reported in millilitres	
	Orally ingested Natural Health Products	✓ Residential only	Vitamins; cough and cold remedies	<b>Excluded from program</b> - “food” and products in food format; orally ingested drops; lozenges; chewing gum for cough; sore throats or halitosis	<b>Pills</b> – Option 1: report number of pills sold (or report by weight below) <b>Solids by weight</b> – report in grams (includes creams, powders, or pills) Option 2: include pills by weight <b>Liquids</b> - to be reported in millilitres	
	Medical inhalers	✓ Residential only	All medical inhalers		Units sold	

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Pressurized containers	Refillable and non-refillable containers such as propane cylinders, containers of oxygen, nitrogen, all other compressed gases	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Seamless cylinders and tubes; welded cylinders and spheres; composite cylinders; insulated cylinders previously containing e.g. acetylene; propane; isocyanate resins; helium; nitrogen; oxygen	<b>Excluded from program</b> - containers sold for commercial or industrial applications and in inspection or lifecycle management programs; containers for refrigerants [under Ontario Environmental Protection Act reg. 189/94]	Units sold	Phase 1 material - no changes to the definition
Reactives	Materials that react with air and/ or water to produce a gas Materials that explode	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Cream hardeners used in auto body repair; metal powders	<b>Reported under Aerosols</b> – Isocyanate foam insulation in aerosol containers	Measured return share	
Sharps & Syringes	Waste sharps such as needles, syringes and lancets used for humans and pets	<ul style="list-style-type: none"> <li>✓ Residential only</li> </ul>	All needles, syringes, lancets and pens		Units sold	
Toxics 	Toxic and harmful materials that are required by federal law to bear the "crossbone" symbol [as defined in CCCR regulations]	<ul style="list-style-type: none"> <li>✓ Residential</li> <li>✓ IC&amp;I small quantity generator</li> </ul>	Some adhesives	<b>Reported under Paints and Coatings</b> - any paints or coatings with a Toxic symbol	Measured return share  For information on <b>how to report products with multiple properties</b> (e.g. Toxic and Corrosive), please refer to the document <a href="#">“Decision Process for Materials with multiple properties”</a> on the SO website	

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