



# **PAINT DEPARTMENT: Review of Common Materials Used**

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*Prepared by*



# **Review of Material Safety Data Sheets of Common Materials Used by Paint Department**

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## **Introduction**

This document is a summary of the hazards and precautions recommended when working with materials commonly used by the Paint Department members. The names of the commonly used products were provided by Jayne Mason and Gillian Richards, members of the IATSE Local 891 Paint Department.

The information contained in the following tables was taken from the Material Safety Data Sheets (MSDSs) with supplemental information from the WCB Table of Chemical and Biological substances. The tables have summarized some of the known or suspected hazards as reported on the MSDSs of specific products. The tables can be used to compare similar products with different hazardous properties. This document was not developed to exempt members from consulting the product's up-to-date MSDSs. However, it provides a quick overview of some of the hazards associated with the materials film industry painters use on a daily basis. The WHMIS requirement under the WCB Occupational Health and Safety Regulation (OHSR) will still have to be met by acquiring the actual MSDSs for the controlled products used at a work place.

## **How to Use the Summary Tables:**

The different products were divided into types of material. For each table, the main hazardous ingredients in one or more of the example products are listed. This is not a complete list of ingredients. The next section lists the main routes of entry into a body for the chemical. Also, the known or suspected potential health effects are listed. Please note that a physician should be consulted to obtain a proper health diagnosis and one should not use the symptoms listed for self-diagnosis. Due to the nature of the activities conducted by the Paint Department members, recommendations for both ventilation and personal protective equipment should be observed. WHMIS classifications for the example products are also provided in the tables.

Keep in mind that the degree of controls may change depending on a number of factors, such as how much and how long the product is used, and how the product is applied. Therefore, further evaluation (e.g., exposure monitoring) may be required to determine necessary and/or additional PPE/ventilation.

Other workplace factors, such as working within a confined space or other potentially hazardous conditions have not been considered in these recommendations. These situations must be evaluated separately.



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For more information on the exposure limits for the chemicals listed in the hazardous components section within these tables, see **Appendix A**. A full listing can be found in Part 5, Chemical Substance Table, Book 2 of the WCB OHSR.

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<b>Material Type: Autobody Fillers</b>				
<b>Example Products:</b>	<i>Bondo (two part), Red Glazing Putty</i>			
<b>Main Hazardous Components</b>	Styrene, Toluene, Xylene			
<b>Potential Route(s) of Entry</b>	Inhalation of vapours during application and dust when sanding, ingestion, skin absorption, eye contact			
<u>Potential Health Effects</u>				
Skin	Eyes	Inhalation	Ingestion	Chronic
<p>May cause irritation, itching, burning, redness, drying of skin</p> <p>Note: Skin absorption can contribute to overall exposure</p>	<p>May cause irritation, redness, tearing, blurred vision and/or swelling</p>	<p>May cause nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, unconsciousness and or asphyxiation</p>	<p>May cause gastro-intestinal irritation, nausea, vomiting and diarrhea</p>	<p>Possible carcinogen and reproductive harm; eye, skin, lung, liver, kidney, blood and central nervous system damage observed in lab animals</p>
<b>Recommended Ventilation</b>	Local exhaust ventilation to control vapour and dust exposure; use explosion proof ventilation.			
<b>Recommended Personal Protective Equipment</b>	<p>Safety glasses if contact is likely to eyes, chemical resistant gloves;</p> <p>NIOSH approved air-purifying respirator with organic vapour cartridges;</p> <p>NIOSH approved air-purifying respirator with organic vapour cartridges and dust pre-filter when dust is generated.</p> <p>Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.</p>			
<b>WHMIS Hazard</b>	  <p>B: Flammable D2: Toxic Materials</p>			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


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<b>Material Type: Epoxy Fillers</b>				
<b>Example Products:</b>	<i>Epoxy Putty (Mohawk Product)</i>			
<b>Main Hazardous Components</b>	Epoxy resin, mercaptan polymer, phenol			
<b>Potential Route(s) of Entry</b>	Inhalation of vapours during application and dust when sanding, ingestion, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation  Note: Skin absorption can contribute to overall exposure	May cause irritation	May cause dizziness, nausea, headache	May cause gastro-intestinal discomfort	Repeated overexposure to solvents may cause permanent brain and nervous system damage; may cause cancer or reproductive toxicity
<b>Recommended Ventilation</b>	Good general ventilation and local exhaust ventilation to control vapour and dust exposure.			
<b>Recommended Personal Protective Equipment</b>	Safety glasses if eye contact is likely to dust, neoprene gloves, NIOSH approved air-purifying respirator with organic vapour cartridges; NIOSH approved air-purifying respirator with organic vapour cartridges and dust pre-filter if dust is generated. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	 D2: Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

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<b>Material Type: Stucco</b>				
<b>Example Products:</b>	<i>Stucco Finish Coat (IMASCO/STOLIT)</i>			
<b>Main Hazardous Components</b>	Crystalline Silica (<1%)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May dry skin, cause alkali burns	Dust can irritate eyes	Dust may irritate upper respiratory tract	May irritate throat	Prolonged exposure to silica may increase risk of silicosis
<b>Recommended Ventilation</b>	General ventilation and local exhaust ventilation to control dust exposure during sanding.			
<b>Recommended Personal Protective Equipment</b>	Safety glasses if eye contact is likely, rubber gloves, NIOSH approved air-purifying respirator with dust filters. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>		D2: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

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<b>Material Type: Fillers</b>				
<b>Example Products</b>	<i>Dyna-Patch</i>			
<b>Main Hazardous Components</b>	Amorphous Fused Silica, Mineral Spirits, Naphtha			
<b>Potential Route(s) of Entry</b>	Skin contact, eye contact, inhalation and ingestion of dust generated from sanding			
<u>Potential Health Effects</u>				
Skin	Eyes	Inhalation	Ingestion	Chronic
May cause irritation	May cause irritation	May cause respiratory irritation from dust	May cause gastro-intestinal distress	Generally, excessive exposure to solvents may lead to CNS effects
<b>Recommended Ventilation</b>	General ventilation and local exhaust ventilation to control vapour and dust exposure.			
<b>Recommended Personal Protective Equipment</b>	Safety glasses if eye contact is likely, chemical resistant gloves for prolonged contact, NIOSH approved air-purifying respirator with dust filters during sanding. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	 D2: Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
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<b>Material Type: Pre-mixed Fillers I</b>				
<b>Example Products:</b>	<i>Poly-Filla</i>			
<b>Main Hazardous Components</b>	None listed			
<b>Potential Route(s) of Entry</b>	Inhalation of dust if generated, ingestion, eye contact			
<u><b>Potential Health Effects</b></u>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Not known to be absorbed by skin	Dust may cause irritation	May cause irritation	May cause gastro-intestinal distress	None known
<b>Recommended Ventilation</b>	Good general ventilation with local exhaust ventilation to control dust exposure when sanding.			
<b>Recommended Personal Protective Equipment</b>	Safety glasses for dust, chemical resistant gloves during prolonged contact, NIOSH approved air-purifying respirator with dust filters when generating dust. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	Not a controlled product			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				




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<b>Material Type: Pre-mixed Fillers II</b>				
<b>Example Products:</b>	<i>Joint Compound, Concrete Fill</i>			
<b>Main Hazardous Components</b>	Crystalline Silica (0.1-1.5%)			
<b>Potential Route(s) of Entry</b>	Inhalation of dust if generated, ingestion, skin contact, eye contact			
<u><b>Potential Health Effects</b></u>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation	Dust may cause irritation and scratching	Dust may cause throat, nose and respiratory, irritation and soreness	May cause gastro-intestinal distress	Long term exposure may cause silicosis, possible carcinogen
<b>Recommended Ventilation</b>	Good general ventilation with local exhaust ventilation to control dust exposure when sanding.			
<b>Recommended Personal Protective Equipment</b>	Safety glasses for dust, chemical resistant gloves to prevent dryness, NIOSH approved air-purifying respirator with P100 filters (for silica) when generating dust. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	 D2: Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


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<b>Material Type: Dry Fillers</b>				
<b>Example Products:</b>	<b>Synko Rufftex, Synko Span Tex, Perlite Hardwall Plaster</b>			
<b>Main Hazardous Components</b>	Crystalline silica (0.1-1.5%)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin and eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation	Dust may cause irritation and scratching	Dust may cause throat, nose and respiratory, irritation and soreness	May cause gastro-intestinal distress	Long term exposure may cause silicosis, possible carcinogen
<b>Recommended Ventilation</b>	General ventilation and local exhaust ventilation to control dust exposure.			
<b>Recommended Personal Protective Equipment</b>	Safety glasses for dust, chemical resistant gloves, NIOSH approved air-purifying respirator with P100 (for silica dust) when generating dust.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>		D2: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

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<b>Material Type: Block Fillers</b>				
<b>Example Products:</b>	<i>MooreSpec Latex Satin-Fil Coating</i>			
<b>Main Hazardous Components</b>	Propylene Glycol, Ethylene Glycol Phenyl Ether			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin and eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation	May cause mild irritation	Vapour concentration is low at room temperature; vapours are unlikely to cause adverse health effects	May cause irritation of the lining of stomach; nausea, discomfort, central nervous depression and vomiting	Generally, excessive exposure may lead to CNS health effects
<b>Recommended Ventilation</b>	General ventilation and local exhaust ventilation to control vapour, spray mist or dust exposure.			
<b>Recommended Personal Protective Equipment</b>	Safety glasses if contact with spray /mist if likely, chemical resistant gloves, NIOSH approved air-purifying respirator with organic vapour cartridges and dust/mist pre-filter. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>		D2: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

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<b>Material Type: Foamcoats</b>				
<b>Example Products:</b>	<i>Rosco Foamcoat</i>			
<b>Main Hazardous Components</b>	Acrylic polymer, Calcium carbonate			
<b>Potential Route(s) of Entry</b>	Inhalation of vapour and dust, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation	Dust may cause irritation and corneal abrasion from dust	Dust, mist and vapours may irritate nose, throat and lungs; may cause headaches, dizziness, vomiting and nausea at high concentrations	May cause abdominal discomfort and pain; dizziness, CNS depression	Severe kidney damage with prolonged exposure
<b>Recommended Ventilation</b>	Good general ventilation, with adequate local exhaust ventilation to control spray/mist, vapours, and dust.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, neoprene gloves; NIOSH approved air-purifying respirator with organic vapour cartridges with a dust/mist pre-filter when mist or spray is generated; NIOSH approved air-purifying respirator with dust filter when sanding. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

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<b>Material Type: Adhesives I</b>				
<b>Example Products:</b>	<i>AW-16 Carpenter's Glue (yellow)</i>			
<b>Main Hazardous Components</b>	Ethylene glycol			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation with contact  Note: Skin absorption can contribute to overall exposure	May cause irritation with contact	No known effects	May cause stomach disturbance	Prolonged or repeated contact may cause irritation
<b>Recommended Ventilation</b>	Use in well ventilated area.			
<b>Recommended Personal Protective Equipment</b>	Splash goggles and chemical resistant gloves to avoid prolonged contact.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	Not a controlled product			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


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<b>Material Type: Adhesives II</b>				
<b>Example Products:</b>	<i>Rainbow R-832L</i>			
<b>Main Hazardous Components</b>	Polychlorprene latex (beta-chloroprene)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Repeated contact may result in irritation  Note: Skin absorption can contribute to overall exposure	May cause irritation, cause tissue damage if not removed properly	May be irritation to respiratory tract	May cause stomach distress	Chronic effects not listed
<b>Recommended Ventilation</b>	Use in well ventilated area with local exhaust ventilation to control vapour exposure.			
<b>Recommended Personal Protective Equipment</b>	Splash goggles if contact is likely, impervious rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges if spraying.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>		D2: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

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<b>Material Type: Adhesives III</b>				
<b>Example Products:</b>	<b><i>3M Super 77 Spray Adhesive</i></b>			
<b>Main Hazardous Components</b>	Hexane, Propane, Dimethyl Ether			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
<p>May cause irritation, redness, swelling and itching</p> <p>Note: Skin absorption can contribute to overall exposure</p>	<p>May cause irritation, redness, swelling, pain, tearing, and hazy vision</p>	<p>May result in soreness of nose and throat, coughing and sneezing, headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness</p>	<p>May cause stomach distress</p>	<p>Inhalation of high concentration may be harmful or fatal</p>
<b>Recommended Ventilation</b>	Use in well ventilated area and local exhaust ventilation to control vapour exposure (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	<p>Safety goggles with side shields to protect against spray/mist, gloves made from nitrile, PVA, Teflon, or Viton,</p> <p>NIOSH approved air-purifying respirator with organic vapour cartridges.</p> <p>Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.</p>			
<b>WHMIS Hazard</b>	 	<p>B5: Flammable Aerosol</p> <p>D2: Toxic Materials</p>		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

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<b>Material Type: Adhesives IV</b>				
<b>Example Products:</b>	<i>Polyurethane Glue (Probond)</i>			
<b>Main Hazardous Components</b>	MDI (isocyanate) 10-30%			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May result in irritation and allergic reactions. <b>Isocyanate is a strong sensitizer</b>	May cause irritation	May result in sensitization; irritation of nose, throat and lungs	May result in burns or irritation to mucous membranes, esophagus or GI tract	May cause lung damage
<b><u>Required Ventilation</u></b>	Local exhaust ventilation to control vapour exposure.			
<b><u>Required Personal Protective Equipment</u></b>	Splash proof safety goggles if contact is likely, chemical resistant gloves to prevent contact, NIOSH approved air purifying respirator with organic vapour cartridges for uses other than spraying, Must wear supplied air respirator when spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>		D1 Serious Toxic Materials D2 Toxic Materials		
<b>Note: This product contains an isocyanate. Substitute for less hazardous material, whenever possible.</b> <b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				





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<b>Material Type: Thinners and Solvents I</b>				
<b>Example Products:</b>	<i>Van-Sol 715, Mineral Spirits, Paint Thinner</i>			
<b>Main Hazardous Components</b>	Petroleum solvent			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May dry skin upon repeated contact, leading to irritation and dermatitis  Note: Skin absorption can contribute to overall exposure	Vapours are moderately irritating to the eyes	May irritate the respiratory passages	If liquid aspirated into lungs, may cause severe inflammation of the lung	Prolonged exposure to high concentration of vapour may lead to central nervous system depression.
<b>Recommended Ventilation</b>	Good general ventilation, local exhaust ventilation to control vapour exposure (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles for protection from eye contact, Viton or Nitrile gloves, NIOSH approved air-purifying respirator with organic vapour cartridges. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>		B3: Combustible liquid		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
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<b>Material Type: Thinners and Solvents II</b>				
<b>Example Products:</b>	<i>Toluene</i>			
<b>Main Hazardous Components</b>	Toluene			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause rash (dermatitis)  Note: skin absorption of toluene will contribute to the overall exposure	Vapour may be irritating	High vapour concentration may be irritating; headache, dizziness, anesthesia, drowsiness; and can be fatal	May be fatal if swallowed; if liquid aspirated into lungs, may cause severe pulmonary damage	Generally, overexposure to solvents may lead to CNS disturbances, possible liver and reproductive effects
<b>Recommended Ventilation</b>	Local exhaust ventilation to control vapour exposure (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles when contact is likely, Polyvinyl Alcohol gloves, NIOSH approved air-purifying respirator with organic vapour cartridges. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	 	B2: Flammable liquid D2: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



**Review of Material Safety Data Sheets of Common Materials  
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<b>Material Type: Thinners and Solvents III</b>				
<b>Example Products:</b>	<i>Acetone</i>			
<b>Main Hazardous Components</b>	Acetone			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation, dermatitis  Note: Skin absorption may contribute to overall exposure	May cause inflammation, redness, watering and itching	Vapours can irritate the nose and throat, headaches, dizziness at high concentrations	Harmful if ingested	Long term skin contact can cause dryness, irritation, cracking of skin; may cause dizziness, loss of strength
<b>Recommended Ventilation</b>	Local exhaust ventilation to control vapour exposure (explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles when contact is likely, rubber gloves; NIOSH approved air-purifying respirator with organic vapour cartridges.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	 	B2: Flammable liquid D2B: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



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<b>Material Type: Thinners and Solvents IV</b>				
<b>Example Products:</b>	<i>Muriatic Acid</i>			
<b>Main Hazardous Components</b>	Hydrochloric acid			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<u><b>Potential Health Effects</b></u>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Corrosive, itching, scaling, reddening, blistering, burns	Corrosive, may damage eye tissue, inflammation, redness, watering and itching	Inhalation of mist/spray may produce severe irritation of respiratory tract, coughing, choking and shortness of breath	May cause irritation of GI tract, corrosive	May produce respiratory irritation leading to frequent bronchial infection
<b>Recommended Ventilation</b>	Good general ventilation			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles or face shield if contact is likely, rubber or neoprene gloves, NIOSH approved air-purifying respirator with acid gas cartridges. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	 E: Corrosive			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


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<b>Material Type: Thinners and Solvents V</b>				
<b>Example Products:</b>	<i>Cloverdale Thinner #19, Vanblend Canco Lacquer Thinner</i>			
<b>Main Hazardous Components</b>	Toluene, Methanol, Methyl Ethyl Ketone			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation, itching, scaling, reddening or blistering  Note: Skin absorption can contribute to the overall exposure	May cause irritation, redness, watering and itching	May be fatal if inhaled in high amounts	May be fatal if swallowed large amounts; if liquid aspirated into lungs, may cause severe pulmonary damage	Repeated or prolonged exposure can produce target organs damage; toxic to blood, kidneys, nervous system and liver
<b>Recommended Ventilation</b>	Good general ventilation with local exhaust ventilation to control vapour exposure (use explosion proof equipment)			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, impervious gloves, NIOSH approved air-purifying respirator with organic vapour cartridges.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	 	B: Flammable  D1A: Serious Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



**Review of Material Safety Data Sheets of Common Materials  
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<b>Material Type: Thinners and Solvents VI</b>				
<b>Example Products:</b>	<i>Methyl Hydrate (Methanol, Methyl Alcohol)</i>			
<b>Main Hazardous Components</b>	Methanol			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation  Note: skin absorption can contribute to the overall exposure	May cause irritation, inflammation, redness, watering and itching	May cause upper respiratory irritation, headache, nausea, and narcosis	May cause CNS depression (dizziness, confusion), blindness; may be fatal	May cause toxic effects to nervous system; dry skin, impaired vision; affect liver
<b>Recommended Ventilation</b>	Use in well ventilated area with local exhaust ventilation to control high vapour concentrations (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, nitrile, neoprene or rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	  B: Flammable D1A: Serious Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**



<b>Material Type: Thinners and Solvents VII</b>				
<b>Example Products:</b>	<i>Xylene</i>			
<b>Main Hazardous Components</b>	Xylene			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation  Note: skin absorption can contribute to the overall exposure	May cause irritation, inflammation, redness, watering and itching	May cause respiratory irritation (>1000 ppm), headache, nausea, and death	May cause severe pulmonary distress if small amount is aspirated into lungs during ingestion	May cause toxic effects to nervous system; signs of hearing loss
<b>Recommended Ventilation</b>	Use in well ventilated area with local exhaust ventilation to control high vapour concentrations (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, PVA gloves, NIOSH approved air-purifying respirator with organic vapour cartridges.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>			B2: Flammable  D2A: Serious Toxic Materials	
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

## Review of Material Safety Data Sheets of Common Materials Used by Paint Department



<b>Material Type: Aerosols</b>				
<b>Example Products:</b>	<b>Bronzetone, Dulling Spray, Matte Finish, Clear Finish, Mohawk Toners</b>			
<b>Main Hazardous Components</b>	Acetone, Xylene, Ethyl Benzene, Propane, Butane, Toluene, Iron oxide			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
Skin	Eyes	Inhalation	Ingestion	Chronic
May cause irritation, allergic reactions, defatting, drying and rash  Note: Skin absorption can contribute to overall exposure	May cause pain, tearing, reddening and swelling, stinging sensation	May cause nausea, headache, dizziness, decreased blood pressure, changes in heart rate and cyanosis	May be fatal if swallowed; irritating to mouth, throat and stomach	Overexposure to solvents have been associated with permanent brain and nervous system damage; possible liver, reproductive hazard
<b>Recommended Ventilation</b>	Use in well ventilated area with local exhaust ventilation to control vapour/mist exposure (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles when spraying, rubber or neoprene gloves for long contact, NIOSH approved air-purifying respirator with organic vapour cartridges; Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Hazard</b>	 		B: Flammable Aerosol D2: Toxic Materials	
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				




**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Waxes I</b>				
<b>Example Products:</b>	<b>Clapham's Beeswax Polish</b>			
<b>Main Hazardous Components</b>	Mineral Spirits			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause minor irritation  Note: Skin absorption can contribute to overall exposure	May cause transient irritation such as stinging, tearing, redness and swelling	When heated, vapour and mist are irritating to respiratory passages	May cause mild gastrointestinal irritation	Dermatitis may result from repeated and/or prolonged skin exposure
<b>Recommended Ventilation</b>	Good general ventilation and local exhaust ventilation to reduce vapour exposure.			
<b>Recommended Personal Protective Equipment</b>	Polyvinyl alcohol (PVA) gloves for prolonged contact; NIOSH approved air-purifying respirator with organic vapour cartridges if heated.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 	B4: Flammable Solids D2B: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Waxes II</b>				
<b>Example Products:</b>	<b>Old Masters Paste Wax</b>			
<b>Main Hazardous Components</b>	Stoddard Solvent (mineral spirits)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause drying of skin  Note: Skin absorption can contribute to overall exposure	May cause severe irritation	Excessive inhalation causes headache, dizziness, and nausea	May cause gastrointestinal distress	May cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, GI tract, spleen, kidneys and blood
<b>Recommended Ventilation</b>	Good general ventilation and local exhaust ventilation to reduce vapour exposure.			
<b>Recommended Personal Protective Equipment</b>	Splash goggles if contact is likely, Polyvinyl alcohol, neoprene or nitrile gloves for prolonged contact, NIOSH approved air- purifying respirator with organic vapour cartridges. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 	B4: Flammable Solids D2B: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Scenic Paints I</b>				
<b>Example Products:</b>	<b>Scenic Latex Flat Paint in various colours (Coast Decorating)</b>			
<b>Main Hazardous Components</b>	Ethylene Glycol  Ingredients for specific colours are not provided on the MSDS. However, it is likely that similar hazardous ingredients, such as lead chromium, are contained within certain colours. See MSDS review of Cloverdale products.			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact of vapour and mist			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause drying of skin	Liquid and mist may cause irritation	Mists during spraying may cause upper respiratory irritation	May cause dizziness, nausea, and abdominal pains	High exposures to mists, vapours, or ingestion of large amounts may cause kidney damage or CNS depression
<b>Recommended Ventilation</b>	Good general ventilation, sanding, spraying or heating to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges; NIOSH approved air-purifying respirator with organic vapour and dust/mist filter when sanding or spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2: Toxic Material		
<b>See Material Safety Data Sheet of the specific product since different colours have different hazardous ingredients.</b> <b>Consult MSDS for first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**


<b>Material Type: Scenic Paints II</b>				
<b>Example Products:</b>	<b>Take One Scenic Paint in various colours (Cloverdale Product)</b>			
<b>Main Hazardous Components</b>	Propylene glycol, ethylene glycol, lead chromium (in chrome yellow, moly orange, chromakey green), chromium oxide (in chromium oxide green)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause minor irritation	May cause irritation, tearing, redness and blurred vision	Excessive exposure to vapours and mist may cause minor irritation to nose and throat	May cause gastrointestinal irritation, vomiting, nausea and diarrhea	Prolonged or repeated exposure may cause adverse health effects with the blood, GI, nervous and reproductive system. Chromium compounds are known to cause cancer
<b>Recommended Ventilation</b>	Good general ventilation; spraying, sanding and heating of product to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges; NIOSH approved air-purifying respirator with organic vapour and dust/mist filter when sanding or spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2A: Very Toxic Material		
<b>See Material Safety Data Sheet of the specific product since different colours have different hazardous ingredients. Consult MSDS for first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**


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<b>Material Type: Water-based Primers I</b>				
<b>Example Products:</b>	<b>Fresh Start Acrylic All Purpose Primer (Benjamin Moore)</b>			
<b>Main Hazardous Components</b>	None listed			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation with prolonged contact	May cause mild irritation with contact	Vapours and mist may be irritating at high concentrations	May cause irritation of the lining of the stomach	No chronic effects stated
<b>Recommended Ventilation</b>	Good general ventilation; Spraying to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, chemical resistant gloves for prolonged contact, NIOSH approved air-purifying respirator with organic vapour cartridges and mist filter when spray mist is generated or work in areas with poor ventilation. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	Not a controlled product			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Water-based Primers II</b>				
<b>Example Products:</b>	<b>Bulls Eye 1-2-3, Sheildz</b>			
<b>Main Hazardous Components</b>	Ethylene Glycol, Zinc Oxide, Titanium Dioxide			
<b>Potential Route(s) of Entry</b>	Eye contact, skin contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Absorption through skin contact is not likely	May cause irritation	May cause irritation in high concentrations	Not considered a significant route of exposure during intended use	No chronic effects stated
<b>Recommended Ventilation</b>	Good general ventilation; spraying to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, chemical resistant gloves for prolonged contact, NIOSH approved air-purifying respirator with organic vapour cartridges with dust/mist filter when spraying or sanding or work in areas with poor ventilation.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**


<b>Material Type: Water-based Primers III</b>				
<b>Example Products:</b>	<b>Interior/Exterior Acrylic Primer (ICI Paints/Glidden)</b>			
<b>Main Hazardous Components</b>	Acrylic resin, titanium oxide			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation	May cause irritation	Prolonged inhalation may lead to coughing	May cause mouth and throat irritation and GI disturbances	None stated
<b>Recommended Ventilation</b>	Good general ventilation; spraying to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, chemical resistant gloves, NIOSH approved air purifying organic vapour respirator with dust/mist filter when spraying or sanding or work in areas with poor ventilation. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**


<b>Material Type: Water-based Primers IV</b>				
<b>Example Products:</b>	<b>Interior/Exterior Latex Wood Primer (Cloverdale)</b>			
<b>Main Hazardous Components</b>	Propylene Glycol (0.5-1.5%)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Minor irritation, dries skin, dermatitis	Minor irritation, tearing, redness and blurred vision	May cause irritation of nose, throat and respiratory tract	May cause GI irritation, vomiting, nausea and diarrhea	No chronic health effects mentioned
<b>Recommended Ventilation</b>	Good general ventilation; spraying to be conducted with local exhaust ventilation and where product is heated.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with dust/mist filter when spraying or sanding or work in areas with poor ventilation.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	Not a controlled product			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Water-based Primers V</b>				
<b>Example Products:</b>	<b>Latex Speed Primer (Cloverdale)</b>			
<b>Main Hazardous Components</b>	Propylene Glycol (1-5%), Ethylene Glycol Monobutyl Ether (0.5-1.5%)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Minor irritation, dries skin, dermatitis  Note: Skin absorption can contribute to overall exposure	Minor irritation, tearing, redness and blurred vision	May cause irritation of nose, throat and respiratory tract	May cause GI irritation, vomiting, nausea and diarrhea	Repeated overexposure may result in damage to the blood
<b>Recommended Ventilation</b>	Good general ventilation; spraying and sanding to be conducted with local exhaust ventilation and where product is heated.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with dust/mist filter when spraying or sanding or work in areas with poor ventilation.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D1B: Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Water-based Primers VI</b>				
<b>Example Products:</b>	<b>Ciltone Satin Latex (Glidden Paint)</b>			
<b>Main Hazardous Components</b>	Propylene Glycol (1-5%), Titanium Dioxide			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Minor irritation, dries skin, dermatitis  Note: Skin absorption can contribute to overall exposure	Minor irritation, tearing	May cause irritation of respiratory tract and lungs	May cause mouth and throat irritation, vomiting, GI disturbances, CNS depression and kidney damage	Repeated overexposure may result in allergic response to skin
<b>Recommended Ventilation</b>	Good general ventilation; spraying and sanding to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with dust/mist filter when sanding or spraying or work in areas with poor ventilation.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Plastic Primers</b>				
<b>Example Products:</b>	<b>Interior Latex Plastic Primer (General Paint)</b>			
<b>Main Hazardous Components</b>	Diethylene Glycol Monomethyl Ether (1-5%)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation upon repeated or prolonged contact	May cause conjunctivitis, mild transient corneal injury, or other tissue damage	May cause headache, nausea, dizziness, headache, irritation of nose, throat, lungs	May cause GI irritation, nausea, vomiting, diarrhea	Diethylene glycol monomethyl ether may be associated with female and male reproductive effects in animals
<b>Recommended Ventilation</b>	Good general ventilation; spraying to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, chemical resistant gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with mist filter when spraying or work in areas with poor ventilation. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	Not a controlled product			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Metal Primers I</b>				
<b>Example Products:</b>	<b>Ecologic DTM Enamel (Cloverdale)</b>			
<b>Main Hazardous Components</b>	None listed, however precautions should be followed as per MSDS			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause mild irritation, dry skin, dermatitis	May cause mild irritation, tearing, blurred vision, redness	Minor irritation to nose, throat	May cause gastrointestinal irritation, vomiting, nausea, diarrhea	No chronic effects stated
<b>Recommended Ventilation</b>	Good general ventilation; spraying to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with mist filter to protect against spray mist or work in areas with poor ventilation.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	Not a controlled product			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Metal Primers II</b>				
<b>Example Products:</b>	<b>DTM Acrylic Semi-Gloss (Benjamin Moore)</b>			
<b>Main Hazardous Components</b>	Propylene glycol			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Spray/mist may cause irritation, possible sensitizer	Spray/mist may cause irritation, not expected to cause tissue damage	Overexposure may cause central nervous system effects, nausea, headache, dizziness	May cause abdominal discomfort and pain, dizziness, CNS depression	Long term exposure may lead to kidney damage
<b>Recommended Ventilation</b>	Good general ventilation; spraying to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, chemical resistant gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with mist filter to protect against spray mist or work in areas with poor ventilation. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Metal Primers III</b>				
<b>Example Products:</b>	<b>Metal Primer Grey (Cloverdale)</b>			
<b>Main Hazardous Components</b>	Petroleum light distillate, Light naphtha			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May dry skin causing cracks, dermatitis	May cause severe irritation, tearing, redness and blurred vision	May cause respiratory irritation, dizziness, breathing difficulty, headaches and loss of coordination	May cause gastrointestinal irritation, vomiting, nausea and diarrhea	Generally, repeated overexposure to solvents have been associated with permanent brain and nervous system damage
<b>Recommended Ventilation</b>	Good general ventilation; spraying to be conducted with local exhaust ventilation (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles, Viton, Nitrile or PVC gloves, NIOSH approved air-purifying respirator with organic vapour cartridges; NIOSH approved air-purifying respirator with organic vapour cartridges with dust/mist filter when sanding or spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 	B2: Flammable Liquids D2A: Very Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

## Review of Material Safety Data Sheets of Common Materials Used by Paint Department



<b>Material Type: Rust Inhibiting Primers</b>				
<b>Example Products:</b>	<b>Rust Mort (SEM Products)</b>			
<b>Main Hazardous Components</b>	Phosphoric acid, Isopropyl alcohol			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
Skin	Eyes	Inhalation	Ingestion	Chronic
Corrosive, causes burns	Corrosive, causes burns	May cause irritation of nose, throat and respiratory tract	Severe internal irritation and damage	May result in irritation of nose, throat and respiratory tract
<b>Recommended Ventilation</b>	Good general ventilation; spraying to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles or face shield if contact is likely, neoprene or butyl rubber gloves, NIOSH approved air-purifying respirator with organic vapour/acid gas cartridges; NIOSH approved air-purifying respirator with organic vapour/acid gas cartridges and mist filter when spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>			D2: Toxic Materials E: Corrosive	
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**



<b>Material Type: Water-based Polyurethane Clear Coats</b>				
<b>Example Products:</b>	<b>Stays Clear Acrylic Polyurethane</b>			
<b>Main Hazardous Components</b>	Propylene glycol			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation	May cause mild irritation	May cause irritation in high concentrations	Irritating to lining of the stomach	Long term exposure may lead to kidney damage
<b>Recommended Ventilation</b>	Good general ventilation, spraying to be conducted with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, chemical resistant gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with mist filter to protect against vapour and spray mist or work in areas with poor ventilation. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				




**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Shellacs</b>				
<b>Example Products:</b>	<b>Bulls Eye Clear Shellac, Amber Shellac, White Shellac, B-I-N, Spray B-I-N</b>			
<b>Main Hazardous Components</b>	Methanol, Ethanol, Isopropanol, Acetone			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation  Note: skin absorption may contribute to the overall exposure	May cause irritation, tearing, blinking, redness and swelling by contact and vapours	May cause coughing, shortness of breath, mucous production, headache, sleepiness, nausea, giddiness and loss of consciousness	Irritating to mouth, throat and stomach	May cause poisoning, impaired vision, blindness; may worsen emphysema or bronchitis, liver damage
<b>Recommended Ventilation</b>	General and local exhaust ventilation to control vapour exposure below exposure limits (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if mist will be generated, neoprene, rubber or nitrile gloves, NIOSH approved air-purifying respirator with organic vapour cartridges. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 	B2: Flammable D2B: Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Urethane Clear Coats I</b>				
<b>Example Products:</b>	<i>One hour Clear Varnish</i>			
<b>Main Hazardous Components</b>	Petroleum Naptha, Distillate (light hydrotreated)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption,			
<b>Potential Health Effects</b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Repeated exposure may irritate the skin and possibly dermatitis  Note: Skin absorption can contribute to overall exposure	Liquid and mists can irritate the eyes	Mists generated during application may cause upper respiratory irritation	May cause dizziness, nausea, vomiting and abdominal pains	Generally, repeated overexposure to solvents have been shown to cause permanent brain damage and nervous system damage
<b>Recommended Ventilation</b>	Use in areas with good general ventilation with local exhaust ventilation (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Solvent resistant gloves, splash proof safety goggles; NIOSH approved air-purifying respirator with organic vapour cartridges; NIOSH approved air-purifying respirator with organic vapour cartridges with a dust/mist pre-filter when sanding or spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 	B3: Combustible liquid D2: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Urethane Clear Coats II</b>				
<b>Example Products:</b>	<b>Cloverdale Water-based Acrylic Urethane Gloss Varnish</b>			
<b>Main Hazardous Components</b>	Diethylene Glycol Monobutyl Ether			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation	May cause mild irritation	Excessive exposure to vapour and mist may cause irritation to nose and throat	May cause gastrointestinal irritation, vomiting, nausea and diarrhea	Repeated overexposure may cause damage to the blood, liver and kidney damage; dermatitis
<b>Recommended Ventilation</b>	Good general ventilation with local exhaust ventilation during its use.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, rubber gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with mist filter or work in areas with poor ventilation. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Epoxy Clear Coats I</b>				
<b>Example Products:</b>	<i>Sierra Performance Concrete Floor and Wall Enamel (two-part)</i>			
<b>Main Hazardous Components</b>	Epoxy polymer (52%), polyamines (<1%)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, eye contact, skin absorption, skin contact			
<b>Potential Health Effects</b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Irritation; may cause allergic reaction  Note: skin absorption may contribute to the overall exposure	Tearing, blinking, redness and swelling	Mists/aerosol generated during application may cause respiratory tract irritation	May cause dizziness, nausea, vomiting and abdominal pains	Epoxy resins can be a skin sensitizer
<b>Recommended Ventilation</b>	Use in areas with good general ventilation with local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Chemical protective gloves, splash proof safety goggles, NIOSH approved air-purifying respirator with organic vapour cartridges; NIOSH approved air-purifying respirator with organic vapour cartridges and a mist pre-filter when spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Epoxy Clear Coats II</b>				
<b>Example Products:</b>	<i>Crystal Sheen (two- part)</i>			
<b>Main Hazardous Components</b>	Epoxy polymer (83-98%), polyamines (2-17%)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, eye contact, skin absorption, skin contact			
<b><u>Potential Health Effects</u></b>				
Skin	Eyes	Inhalation	Ingestion	Chronic
May cause allergic reaction  Note: skin absorption may contribute to the overall exposure	May cause immediate pain, irritation	Mists/aerosol generated during application may cause respiratory tract irritation	May cause discomfort, toxic in large amounts	Skin sensitization
<b>Recommended Ventilation</b>	Use in areas with good general ventilation with local ventilation.			
<b>Recommended Personal Protective Equipment</b>	Butyl rubber gloves, splash proof safety goggles, NIOSH approved air-purifying respirator with organic vapour cartridges; NIOSH approved air-purifying respirator with organic vapour cartridges with a mist pre-filter when spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 D2B: Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Epoxy Clear Coats III</b>				
<b>Example Products:</b>	<i>New Clear Epoxy (two part)</i>			
<b>Main Hazardous Components</b>	Epoxy polymer (90%), polyamines (10%)			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, eye contact, skin absorption, skin contact			
<b><u>Potential Health Effects</u></b>				
Skin	Eyes	Inhalation	Ingestion	Chronic
Irritation; may cause allergic reaction; burns from hardener  Note: skin absorption may contribute to the overall exposure	May cause irritation; burns from hardener	Mists/aerosol generated during application may cause respiratory tract irritation	Not known	Skin sensitization
<b>Recommended Ventilation</b>	Use in areas with good general ventilation with local ventilation.			
<b>Recommended Personal Protective Equipment</b>	Vinyl, latex or rubber gloves, splash proof safety goggles recommended for spray application; NIOSH approved air-purifying respirator with organic vapour cartridges; NIOSH approved air-purifying respirator with organic vapour cartridges with a mist pre-filter when spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 D2B: Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

## Review of Material Safety Data Sheets of Common Materials Used by Paint Department



<b>Material Type: Lacquers</b>				
<b>Example Products:</b>	<b>Satin Lacquer, Gloss Lacquer (Cloverdale products)</b>			
<b>Main Hazardous Components</b>	Methyl Ethyl Ketone, Xylene, Toluene, Methanol, Isopropanol			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
Skin	Eyes	Inhalation	Ingestion	Chronic
<p>May cause irritation, dryness, dermatitis</p> <p>Note: skin absorption may contribute to the overall exposure</p>	<p>May cause severe irritation, tearing, redness and blurred vision</p>	<p>Excessive exposure to vapour, spray/mists may cause respiratory irritation; dizziness, breathing difficulty, headache and loss of coordination</p>	<p>May cause blindness, narcosis, nausea, vomiting from methanol content</p>	<p>Generally, repeated overexposure to solvents may cause brain and nervous system damage</p>
<b>Recommended Ventilation</b>	Good general ventilation with local exhaust ventilation to control vapour/mist (equipment must be explosion proof).			
<b>Recommended Personal Protective Equipment</b>	<p>Neoprene or butyl rubber gloves, splash proof safety goggles for spray application;</p> <p>NIOSH approved air-purifying respirator with organic vapour cartridges;</p> <p>NIOSH approved air-purifying respirator with organic vapour cartridges and a dust/mist pre-filter when sanding or spraying.</p> <p>Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.</p>			
<b>WHMIS Class</b>			<p>B2: Flammable Liquid</p> <p>D1A: Very Toxic Material</p>	
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

## Review of Material Safety Data Sheets of Common Materials Used by Paint Department


<b>Material Type: Stains I</b>				
<b>Example Products:</b>	<b>Ultra Penetration Stain (Mohawk Products)</b>			
<b>Main Hazardous Components</b>	Methanol			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<u>Potential Health Effects</u>				
Skin	Eyes	Inhalation	Ingestion	Chronic
Can be absorbed through skin, irritation  Note: skin absorption may contribute to the overall exposure	Causes eye irritation	May affect brain and nervous system	May be fatal or cause blindness if swallowed	May cause permanent brain and nervous system damage
<b>Recommended Ventilation</b>	Good general ventilation and local exhaust to control vapour exposure below exposure limits (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles, neoprene gloves, NIOSH approved air-purifying organic vapour respirator; Supply air respirator is recommended where mechanical exhaust ventilation is not available.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 	B2: Flammable liquid D2B: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



## Review of Material Safety Data Sheets of Common Materials Used by Paint Department

<b>Material Type: Stains II</b>				
<b>Example Products:</b>	<b>Penetrating Oil Stain (Mohawk Products)</b>			
<b>Main Hazardous Components</b>	Toluene, Xylene, Mineral Spirits			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
Skin	Eyes	Inhalation	Ingestion	Chronic
Can be absorbed through skin, irritation	Causes eye irritation	May affect brain and nervous system, causing dizziness, headache or nausea	May be fatal or cause blindness if swallowed	Generally, repeated overexposure to solvents may cause permanent brain and nervous system damage
<b>Recommended Ventilation</b>	Good general ventilation and local exhaust to control vapour exposure below exposure limits (use explosion proof equipment).			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles, neoprene gloves, NIOSH approved air-purifying respirator with organic vapour cartridges; Supply air respirator is recommended where mechanical exhaust ventilation is not available. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>			B2: Flammable liquid D2B: Toxic Materials	
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Stains III</b>				
<b>Example Products:</b>	<b>Water-based Penetrating Stain (Mohawk Products)</b>			
<b>Main Hazardous Components</b>	Dipropylene Glycol Methyl Ether			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation  Note: skin absorption may contribute to the overall exposure	May cause eye irritation	Excessive exposure may cause upper respiratory tract irritation	Swallowing large amounts may cause injury	Excessive exposure may lead to narcotic effects
<b>Recommended Ventilation</b>	Good general ventilation and local exhaust to control vapour exposure below exposure limits.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles, neoprene gloves, NIOSH approved air-purifying respirator with organic vapour cartridges with mist pre-filter when spraying. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>		D2B: Toxic Material		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Dyes</b>				
<b>Example Products:</b>	<b>Aniline Dyes Water/Alcohol Soluble (Mohawk dyes)</b>			
<b>Main Hazardous Components</b>	No reportable quantities of hazardous ingredients in product			
<b>Potential Route(s) of Entry</b>	Inhalation, skin contact, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Dust may cause irritation	Dust may cause irritation	Dust may cause nose and throat irritation	Large quantities may cause gastro-intestinal disturbance	Any medical condition, allergy, sensitization may become worse upon exposure
<b>Recommended Ventilation</b>	Local exhaust ventilation is recommended to control dust exposure. Handle powders in "powder rooms", paint booths or areas away from drafts.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles, neoprene gloves, NIOSH approved air-purifying respirator with dust filter when handling powder.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	Not a controlled product			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				


**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Metallic Powders</b>				
<b>Example Products:</b>	<b>Bronze Powder of Various Colours such as Antique Gold, Silver, Pale Gold, Rich Gold, Copper etc (Mohawk Products)</b>			
<b>Main Hazardous Components</b>	Copper, zinc, aluminum (depending on the colour)			
<b>Potential Route(s) of Entry</b>	Inhalation, skin contact, eye contact, ingestion			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
Dust may cause irritation	Dust may cause irritation	Dust may cause nose and throat irritation	No info provided	Any medical condition, allergy, sensitization may become worse upon exposure
<b>Recommended Ventilation</b>	Local exhaust ventilation to control dust exposure. Handle powders in "powder rooms", paint booths or areas away from drafts.			
<b>Recommended Personal Protective Equipment</b>	Splash proof safety goggles if contact is likely, NIOSH approved air-purifying respirator with dust filter when dust is generated. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 D2B: Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



## Review of Material Safety Data Sheets of Common Materials Used by Paint Department

<b>Material Type: Tints and Colourants</b>				
<b>Example Products:</b>	<i>Microcolor Dispersions Liquid Colorants (various colours)</i>			
<b>Main Hazardous Components</b>	Crystalline silica, Ammonia, Ethylene glycol, Iron oxide			
<b>Potential Route(s) of Entry</b>	Eye contact, ingestion, skin absorption			
<b><u>Potential Health Effects</u></b>				
Skin	Eyes	Inhalation	Ingestion	Chronic
May cause irritation  Note: skin absorption may contribute to the overall exposure	May cause irritation	May cause nose and throat irritation; may irritate mucous membranes of the respiratory tract	Large amounts can cause nausea, convulsions, slurred speech, disorientation	May be a reproductive toxin; may cause heart and kidney damage
<b>Recommended Ventilation</b>	Good general ventilation; use local exhaust ventilation to control vapours.			
<b>Recommended Personal Protective Equipment</b>	Safety goggles, rubber gloves; NIOSH approved air-purifying respirator with organic vapour cartridges. Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 D2B: Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Strippers I</b>				
<b>Example Products:</b>	Circa 1850			
<b>Main Hazardous Components</b>	Dichloromethane, Methanol			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation, defatting and dermatitis  Note: skin absorption may contribute to the overall exposure	May cause moderate to severe irritation and transient corneal injury	May cause nasal and respiratory irritation	Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary edema	Excessive exposure may effect central nervous system, respiratory, eyes, skin, gastrointestinal, spleen, kidneys
<b>Recommended Ventilation</b>	Good general ventilation; use local exhaust ventilation to contain vapours within exposure limits.			
<b>Recommended Personal Protective Equipment</b>	Slash proof safety goggles, latex or neoprene gloves; NIOSH approved air-purifying respirator with organic vapour cartridges.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 D2: Toxic Materials			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Strippers II</b>				
<b>Example Products:</b>	<b>Polyclens (Brush cleaner)</b>			
<b>Main Hazardous Components</b>	Petroleum hydrocarbon solvent			
<b>Potential Route(s) of Entry</b>	Inhalation, ingestion, skin contact, skin absorption, eye contact			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause irritation, defatting and dermatitis  Note: skin absorption may contribute to the overall exposure	May cause moderate to severe irritation and transient corneal injury	May cause nasal and respiratory irritation; may cause headaches, dizziness and anesthesia; may effect the central nervous system	Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary edema	May aggravate existing nervous system, blood, heart, lung, kidney, liver, eye, and skin conditions
<b>Recommended Ventilation</b>	Use with adequate local exhaust ventilation.			
<b>Recommended Personal Protective Equipment</b>	Slash proof safety goggles, Neoprene or rubber gloves; NIOSH approved air-purifying respirator with organic vapour cartridges.  Further evaluation (e.g., exposure monitoring) may be required to determine additional or upgrading of PPE.			
<b>WHMIS Class</b>	 	B3: Flammable D2B: Toxic Materials		
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				

**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Cleansers and Degreasers</b>				
<b>Example Products:</b>	<b>Gold Matrix Parts Cleaner/Degreaser</b>			
<b>Main Hazardous Components</b>	Potassium hydroxide, Not WHMIS controlled			
<b>Potential Route(s) of Entry</b>	Skin contact, eye contact, ingestion			
<b><u>Potential Health Effects</u></b>				
<b>Skin</b>	<b>Eyes</b>	<b>Inhalation</b>	<b>Ingestion</b>	<b>Chronic</b>
May cause slight irritation	May cause slight irritation	May cause nose and throat irritation	May cause gastro-intestinal disturbance	No known effects
<b>Recommended Ventilation</b>	Good general ventilation.			
<b>Recommended Personal Protective Equipment</b>	Chemical resistant gloves for contact during application.			
<b>WHMIS Class</b>	Not a controlled product			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				



**Review of Material Safety Data Sheets of Common Materials  
Used by Paint Department**

<b>Material Type: Hand Cleaners</b>				
<b>Example Products:</b>	<i>Fast Orange Hand Cleaner, Blue Label Hand Cleaner</i>			
<b>Main Hazardous Components</b>	Turpenes, Stoddard solvent			
<b>Potential Route(s) of Entry</b>	Ingestion, skin contact, inhalation			
<b><u>Potential Health Effects</u></b>				
Skin	Eyes	Inhalation	Ingestion	Chronic
May cause irritation	May cause irritation at high concentrations	May cause irritation upon prolonged use	May cause broncopneumonia if aspirated into the lungs	May affect central nervous system
<b>Recommended Ventilation</b>	Good general ventilation and local exhaust ventilation when using in large amounts.			
<b>Recommended Personal Protective Equipment</b>	None recommended.			
<b>WHMIS Class</b>	Exempt products			
<b>See Material Safety Data Sheet of the specific product for further details and first aid recommendations.</b>				