

**Nelson Aerosol Tree & Log Marking Paint** 3244A Red, 3145 Green, 3246 Black, 3247 White, 3141 LF Yellow, 3143 LF Orange, 3242 Blue, 6242 Drk Blue, 6245 Drk Green, 6248 Lt Purple, 6249 Gray, 3142FL Blue Glo, 3144FL Orange-Glo, 3145FL Green-Glo, 3148FL Pink-Glo, 3149FL Red-Glo

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## MATERIAL SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Product identifier** : **Nelson Aerosol Tree & Log Marking Paint**

**Product Use** : Industrial forestry paint for marking trees and logs.

**Chemical Family** : Mixture.

**Manufacturer part no.** : 3242 Blue, 3244A Red, 3145 Green, 3246 Black, 3247 White, 3141 LF Yellow, 3143 LF Orange, 6242 Drk Blue, 6245 Drk Green, 6248 Lt Purple, 6249 Gray, 3142FL Blue Glo, 3144FL Orange-Glo, 3145FL Green-Glo, 3148FL Pink-Glo, 3149FL Red-Glo.

**Supplier's name and address:**  
**Nelson Paint Company of Canada**  
48 Industrial Park Crescent  
Sault Ste. Marie, ON, Canada  
P6B 5P2

**Manufacturer's name and address:**  
Refer to Supplier

**Information Telephone #** : (705) 759-4680 (Monday - Friday, 7:00 am to 3:30 pm, EST)

**24 Hr. Emergency Tel #** : (613) 996-6666 (CANUTEC)

### SECTION 2 - HAZARDS IDENTIFICATION

**Classification** : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS Classification:  
Class A (Pressurized containers);  
Class B5 (Flammable Aerosols)  
Class D1B (Materials Causing Immediate and Serious Toxic Effects, Toxic Material);  
Class D2A (Materials Causing Other Toxic Effects, Very Toxic Material);  
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

Labelling: Phrases recommended to appear on a supplier label, can be found in Section 15.

WHMIS symbols required on a supplier label:



**Emergency Overview** : Various colours. Liquid. Solvent odour.

Danger. Flammable aerosol. Containers may explode if heated. Contents under pressure. POISON! May be fatal or cause blindness if swallowed in sufficient quantities. Harmful if absorbed through the skin. Harmful if inhaled. May cause central nervous system effects. May cause respiratory irritation. May cause skin irritation. Causes eye irritation. Possible cancer hazard - contains material which may cause cancer. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

### POTENTIAL HEALTH EFFECTS:

#### Signs and symptoms of short-term (acute) exposure

**Inhalation** : Harmful if inhaled. May cause respiratory irritation. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Affected person could experience a latent period of no symptoms, followed by blurred vision and possibly blindness.

**Skin** : May cause mild to moderate irritation. Direct skin contact may cause temporary redness. May be absorbed and cause symptoms similar to those for inhalation.

**Eyes** : May cause moderate to severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.



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**Ingestion** : May cause severe irritation to the mouth, throat and stomach. May produce mild central nervous system depression characterized by headache, nausea, vertigo, and stupor. May be absorbed and cause symptoms similar to those for inhalation. Blindness or death may occur.

**Effects of long-term (chronic) exposure**

: Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. Some reports have associated repeated, prolonged overexposure to solvents with permanent central nervous system changes.

**Carcinogenic status**

: See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards**

: May cause birth defects. See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects**

: See ECOLOGICAL INFORMATION, Section 12.

**SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt.%</u>
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	20.00 - 40.00
Liquefied petroleum gases	68476-86-8	10.00 - 20.00
Methanol	67-56-1	7.00 - 13.00
Crystalline silica, quartz	14808-60-7	0.10 - 0.30
Zirconium ethyl hexoate	22464-99-9	0.10 - 0.30
<b>3242 Blue, 3145 Green, 3247 White, 3141 LF Yellow, 3143 LF Orange, 6242 Drk Blue, 6245 Drk Green, 6248 Lt Purple, 3142FL Blue Glo and 3144FL Orange-Glo also contain the following chemicals:</b>		
titanium dioxide	13463-67-7	7.00 - 13.00
Silica, amorphous	7631-86-9	0.50 - 1.50
<b>3246 Black and 6249 Gray also contain the following chemical:</b>		
Carbon black	1333-86-4	0.10 - 1.00

**SECTION 4 - FIRST AID MEASURES**

**Inhalation** : Immediately remove person to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Get medical attention.

**Skin contact** : Remove/Take off immediately all contaminated clothing. Wash exposed area thoroughly with soap and water for at least 15 minutes. Get medical attention.

**Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes. Seek immediate medical attention/advice.

**Ingestion** : Call a physician or poison control centre immediately. Do not induce vomiting. Never give anything by mouth to an unconscious person.

**Notes For Physician** : Immediate medical attention is required. Contains methanol. Provide general supportive measures and treat symptomatically.

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## SECTION 5 - FIRE FIGHTING MEASURES

### Fire hazards/conditions of flammability

- : Extremely flammable aerosol. Closed containers are contained under pressure and may explode if exposed to excess heat for a prolonged period of time. Will be ignited by heat, sparks, flame, or other ignition sources. Vapours are heavier than air and collect in confined and low-lying areas. Vapour can travel considerable distance and flashback to a source of ignition. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

### Oxidizing properties

- : None known.

### Explosion data: Sensitivity to mechanical impact / static discharge

- : May be sensitive to static discharge. Vapours in the flammable range may be ignited by a static discharge of sufficient energy.  
Not expected to be sensitive to mechanical impact.

**Suitable extinguishing media** : Dry chemical, foam, carbon dioxide and water fog. Do not use water jet, as this may spread burning material.

### Special fire-fighting procedures/equipment

- : Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame.

### Hazardous combustion products

- : Carbon oxides; Hydrocarbons; Calcium oxides; formaldehyde; Nitrogen oxides (NOx); Sulfur oxides; Other unidentified organic compounds.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**Personal precautions** : All persons dealing with the clean-up should wear the appropriate personal protective equipment. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions** : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

**Spill response/cleanup** : Ventilate area of release. Remove all sources of ignition. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Notify the appropriate authorities as required.

**Prohibited materials** : Do not use combustible absorbents, such as sawdust.

## SECTION 7 - HANDLING AND STORAGE

**Safe Handling procedures** : Use in a well-ventilated area. Wear suitable protective equipment during handling. Avoid breathing vapors or mists. Do not ingest. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. Keep away from incompatibles. Keep out of direct sunlight. Do not puncture or incinerate. Turn cans upside down, empty the tube, and replace the cap when through using. Wash thoroughly after handling. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Storage requirements** : Store in a cool, dry, well-ventilated area away from sources of heat, ignition and sunlight. Store at temperatures of 4 to 32°C (39.2 to 89.6°F) and away from incompatibles. Inspect periodically for damage or leaks. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. No smoking in the area.

**Incompatible materials** : Oxidizing agents; Strong acids; Strong bases; Alkali metals

**Special packaging materials** : Always keep in containers made of the same materials as the supply container.

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## SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Solvent naphtha (petroleum), medium aliphatic	100 ppm	N/Av	500 ppm (2000 mg/m <sup>3</sup> ) (as petroleum distillates, naphtha)	N/Av
Liquefied petroleum gases	N/Av	N/Av	1000 ppm (1800 mg/m <sup>3</sup> ) (as Propane)	N/Av
Methanol	200 ppm (skin)	250 ppm (skin)	200 ppm (260 mg/m <sup>3</sup> )	N/Av
Crystalline silica, quartz	0.025 mg/m <sup>3</sup> (respirable)	N/Av	0.1 mg/m <sup>3</sup> (respirable) (final rule limit)	N/Av
Zirconium ethyl hexoate	N/Av	N/Av	N/Av	N/Av
3242 Blue, 3145 Green, 3247 White, 3141 LF Yellow, 3143 LF Orange, 6242 Drk Blue, 6245 Drk Green, 6248 Lt Purple, 3142FL Blue Glo and 3144FL Orange-Glo also contain the following chemicals:				
titanium dioxide	10 mg/m <sup>3</sup>	N/Av	15 mg/m <sup>3</sup> (total dust)	N/Av
Silica, amorphous	10 mg/m <sup>3</sup> (inhalable); 3 mg/m <sup>3</sup> (respirable) (as PNOS)	N/Av	20 mppcf	N/Av
3246 Black and 6249 Gray also contain the following chemical:				
Carbon black	3.0 mg/m <sup>3</sup> (inhalable)	N/Av	3.5 mg/m <sup>3</sup>	N/Av

### Ventilation and engineering measures

: Product normally used outdoors. Provide adequate cross air circulation. Local mechanical ventilation required if used indoors on a continuous basis.

### Respiratory protection

: Use of NIOSH-approved respirators or face masks advisable in windy conditions. Advice should be sought from respiratory protection specialists.

### Skin protection

: Impervious gloves must be worn when using this product. Advice should be sought from glove suppliers.

### Eye / face protection

: Chemical splash goggles must be worn when handling this material.

### Other protective equipment

: Have eyewash bottles available. Other equipment may be required depending on workplace standards.

### General hygiene considerations

: Avoid breathing vapors or mists. Avoid contact with eyes, skin and clothing. Wash hands thoroughly after using this product, and before eating, drinking or smoking. Remove and wash contaminated clothing before re-use. Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid aerosol.	Appearance	: Various colours.
Odour	: Solvent odour.	Odour threshold	: N/Av
pH	: N/Av		
Boiling point	: 150 - 205°C (302 - 401°F)	Specific gravity	: 0.98 - 1.10 @ 20°C (68°F)
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av



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Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av	Solubility in water	: Insoluble.
Vapour density (Air = 1)	: > 1	Evaporation rate (n-Butyl acetate = 1)	: Slower than ether.
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: 50.3 - 64%
Flash point	: 24°C (75.2°F)	Auto-ignition temperature	: N/Av
Flash point Method	: TCC	Upper flammable limit (% by vol.)	: 9.5%
Lower flammable limit (% by vol.)	: 1.9%	Flashback observed	: N/Av
Flame Projection Length	: N/Av	Viscosity	: N/Av
Absolute pressure of container	: 60 - 80 psi (414 - 552 kPa)		
General Information	: No additional information.		

**Section 10: STABILITY AND REACTIVITY**

**Stability and reactivity** : Stable under the recommended storage and handling conditions prescribed.  
**Hazardous polymerization** : Hazardous polymerization does not occur.  
**Conditions to avoid** : Avoid heat and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation. Keep out of direct sunlight.  
**Materials To Avoid And Incompatibility** : Oxidizing agents; Strong acids; Strong bases; Alkali metals  
**Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**Target organs** : Eyes, skin, respiratory system and digestive system. Central nervous system.  
**Routes of exposure** : *Inhalation:* YES *Skin Absorption:* YES *Skin & Eyes:* YES *Ingestion:* YES  
**Irritancy** : Moderate to severe eye irritant. Mild to moderate skin irritant.  
**Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC<sub>50</sub>(4hr)</u>		<u>LD<sub>50</sub></u>	
	<u>inh. rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>	
Solvent naphtha (petroleum), medium aliphatic	> 5.5 mg/L	> 5000 mg/kg (No mortality)	> 2000 mg/kg (No mortality)	
Liquefied petroleum gases	N/Av	N/Av (gas)	N/Av (gas)	
Methanol	> 5000 ppm/6H (4.1 mg/L/4H (vapour)	5628 mg/kg (rat) The estimated human lethal dose is: 300 - 1000 mg/kg	> 393 mg/kg (Monkey) 15 800 mg/kg (rabbit)	
Crystalline silica, quartz	N/Av	N/Av	N/Av	
Zirconium ethyl hexoate	> 4.3 mg/L (aerosol) (No mortality) (Read-across)	> 5000 mg/kg (Read-across)	> 2000 mg/kg (No mortality) (Read-across)	
<b>3242 Blue, 3145 Green, 3247 White, 3141 LF Yellow, 3143 LF Orange, 6242 Drk Blue, 6245 Drk Green, 6248 Lt Purple, 3142FL Blue Glo and 3144FL Orange-Glo also contain the following chemicals:</b>				
titanium dioxide	> 6.82 mg/kg (dust) (No mortality)	> 25 000 mg/kg	> 10 000 mg/kg	
Silica, amorphous	N/Av	3160 mg/kg	> 5000 mg/kg	
<b>3246 Black and 6249 Gray also contain the following chemical:</b>				
Carbon black	6.75 mg/L (dust)	> 10 000 mg/kg	> 3000 mg/kg	

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- Carcinogenic status** : Contains crystalline silica. Crystalline silica is classified as carcinogenic by IARC (Group 1), the ACGIH (Category A2) and the NTP (Group 1 - Known human carcinogen).
- 3242 Blue, 3145 Green, 3247 White, 3141 LF Yellow, 3143 LF Orange, 6242 Drk Blue, 6245 Drk Green, 6248 Lt Purple, 3142FL Blue Glo and 3144FL Orange-Glo contain Titanium dioxide. Titanium dioxide is classified as possibly carcinogenic by IARC (Group 2B).
- 3246 Black and 6249 Gray contain Carbon black. Carbon black is classified as carcinogenic by IARC (Group 2B).
- Reproductive effects** : Not expected to have other reproductive effects.
- Teratogenicity** : Contains Methanol. Methanol may cause fetotoxic and teratogenic effects, based on animal data. Effects were observed following inhalation of high concentrations of Methanol, at doses which were not maternally toxic.  
Contains Zirconium ethyl hexoate. Zirconium ethyl hexoate may cause fetotoxic effects at doses which are not maternally toxic, based on animal data (read across).
- Mutagenicity** : 3246 Black and 6249 Gray contain Carbon black. Carbon black is suspected of causing mutations in non-reproductive cells, based on animal data.  
No other components are expected to be mutagenic.
- Epidemiology** : None known or reported by the manufacturer.
- Sensitization to material** : Not expected to be a skin or respiratory sensitizer.
- Synergistic materials** : None known or reported by the manufacturer.
- other important hazards** : Reports have associated repeated and prolonged occupational overexposure to various organic solvents with internal organ, brain and nervous system damage.
- Conditions aggravated by overexposure** : Pre-existing skin, eye, respiratory and central nervous system disorders.

## SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : May cause long lasting harmful effects to aquatic life. No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. This product contains the following substance which may also be hazardous for the environment: Distillates (petroleum), hydrotreated light.

See the following tables for individual ingredient ecotoxicity data.

### Ecotoxicity data:

Ingredients	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	2 - 5 mg/L (Rainbow trout)	0.098 mg/L/28-day (QSAR) (NOEL)	None.
Methanol	67-56-1	15 400 mg/L (Bluegill sunfish)	446.7 mg/L/28-day (Fathead minnow) (QSAR)	None.
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.
Zirconium ethyl hexoate	22464-99-9	180 mg/L (Rainbow trout) (Read-across)	N/Av	None.
titanium dioxide	13463-67-7	> 100 mg/L (Japanese ricefish)	N/Av	None.
Silica, amorphous	7631-86-9	N/Av	N/Av	None.
Carbon black	1333-86-4	> 1000 mg/L (Zebra fish)	N/Av	None.



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<u>Ingredients</u>	CAS No	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1.4 mg/L (Daphnia magna)	0.48 mg/L (QSAR) (NOEL)	None.
Methanol	67-56-1	> 10 000 mg/L (Daphnia magna)	208 mg/L (QSAR)	None.
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.
Zirconium ethyl hexoate	22464-99-9	> 100 mg/L (Daphnia magna)	N/Av	None.
titanium dioxide	13463-67-7	> 100 mg/L (Daphnia magna)	N/Av	None.
Silica, amorphous	7631-86-9	N/Av	N/Av	None.
Carbon black	1333-86-4	> 5600 mg/L/24hr (Daphnia magna)	N/Av	None.

<u>Ingredients</u>	CAS No	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Solvent naphtha (petroleum), medium aliphatic	64742-88-7	1 - 3 mg/L/72hr (Green algae)	1 mg/L/72hr (Green algae) (NOEL)	None.
Methanol	67-56-1	22 000 mg/L/96hr (Green algae)	N/Av	None.
Crystalline silica, quartz	14808-60-7	N/Av	N/Av	None.
Zirconium ethyl hexoate	22464-99-9	> 100 mg/L/72hr (Green algae) (Read-across)	32 mg/L/72hr (Read-across)	None.
titanium dioxide	13463-67-7	> 100 mg/L/72hr (Green algae)	N/Av	None.
Silica, amorphous	7631-86-9	N/Av	N/Av	None.
Carbon black	1333-86-4	> 10 000 mg/L/72hr (Green algae)	N/Av	None.

**Mobility** : No data is available on the product itself.

**Persistence** : No data is available on the product itself.  
 Contains the following chemicals which are not readily biodegradable: Distillates (petroleum), hydrotreated light; titanium dioxide; Crystalline silica, quartz; 1,2,4-Trimethylbenzene; Carbon black; Amorphous silica.  
 The following ingredients are considered to be readily biodegradable: Methanol; Linseed oil.

**Bioaccumulation potential** : No data is available on the product itself. See the following data for ingredient information.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Methanol (CAS 67-56-1)	- 0.82 to - 0.64	< 10 (common carp)
Zirconium ethyl hexoate (CAS 22464-99-9)	< 1	2.96

**Other Adverse Environmental effects**

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.



Nelson Paint Company of Canada  
48 Industrial Park Crescent  
Sault Ste. Marie, ON, Canada, P6B 5P2  
Telephone: (705) 759-4680

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### SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7. Empty containers retain residue (liquid and/or vapour) and can be dangerous. Do not cut, weld, drill or grind on or near this container. Follow labeled warnings even after container is emptied.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

### SECTION 14: TRANSPORT INFORMATION

#### Regulatory Information

TDG

This product is regulated as: UN1950, AEROSOLS, Class 2.1  
However, as supplied, can be shipped under the Limited Quantity Exemption within Canada. Under the TDG, refer to Section 1.17 for additional exemption requirements, if shipping under this exemption.

### SECTION 15 - REGULATORY INFORMATION

#### Labelling:

**DANGER!** Flammable aerosol. Container may explode if heated. Contents under pressure. **POISON!** May be fatal or cause blindness if swallowed in sufficient quantities. Harmful if inhaled. Harmful if absorbed through the skin. May cause central nervous system effects. May cause respiratory irritation. May cause skin irritation. Causes eye irritation. Possible cancer hazard - contains material which may cause cancer. Possible birth defect hazard - contains material that may cause birth defects, based on animal data.

**PRECAUTIONS:** Use only in well-ventilated areas. Wear suitable protective equipment during handling. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Keep away from heat, sparks and flame. Keep away from incompatibles. Keep out of direct sunlight. Do not puncture or incinerate containers. Turn cans upside down, empty the tube, and replace the cap when through using. Wash thoroughly after handling. Store in a cool, dry, well ventilated area, away from heat and ignition sources.

**FIRST AID:** If inhaled, move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing stops, provide artificial respiration. Get medical attention. For skin contact, wash with soap and water while removing contaminated clothing. Get medical attention. For eye contact, flush with running water for at least 15 minutes. Seek immediate medical attention/advice. If ingested, immediately seek medical attention/advice. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Refer To Material Safety Data Sheet for further information.

#### Canadian Information:

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.**

#### US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

### SECTION 16 - OTHER INFORMATION

- Legend** : ACGIH: American Conference of Governmental Industrial Hygienists  
CAS: Chemical Abstract Services  
EC50: Effective Concentration 50%.  
HSDB: Hazardous Substances Data Bank



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IARC: International Agency for Research on Cancer  
 Inh: Inhalation  
 IUCLID: International Uniform Chemical Information Database  
 LC: Lethal Concentration  
 LD: Lethal Dose  
 MSDS: Material Safety Data Sheet  
 MSHA: Mine Safety and Health Administration  
 N/Ap: Not Applicable  
 N/Av: Not Available  
 NIOSH: National Institute of Occupational Safety and Health  
 NOEC: No observable effect concentration  
 NTP: National Toxicology Program  
 OECD: Organisation for Economic Co-operation and Development  
 OSHA: Occupational Safety and Health Administration  
 PEL: Permissible exposure limit  
 RTECS: Registry of Toxic Effects of Chemical Substances  
 STEL: Short Term Exposure Limit  
 TCC: Tagliabue Closed Cup  
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
 TLV: Threshold Limit Values  
 TWA: Time Weighted Average  
 WHMIS: Workplace Hazardous Materials Identification System

**References**

1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016.
2. International Agency for Research on Cancer Monographs, searched 2016.
3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2016 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
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**Nelson Aerosol Tree & Log Marking Paint** 3244A Red, 3145 Green, 3246 Black, 3247 White, 3141 LF Yellow, 3143 LF Orange, 3242 Blue, 6242 Drk Blue, 6245 Drk Green, 6248 Lt Purple, 6249 Gray, 3142FL Blue Glo, 3144FL Orange-Glo, 3145FL Green-Glo, 3148FL Pink-Glo, 3149FL Red-Glo

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: (M)SDS sections updated:  
3. COMPOSITION/INFORMATION ON INGREDIENTS;  
8. EXPOSURE CONTROLS / PERSONAL PROTECTION;  
11. TOXICOLOGICAL INFORMATION;  
12. ECOLOGICAL INFORMATION

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