

## MATERIAL SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION

**Product identifier** : **ORANGE GLO - Wood Polish & Conditioner**

**Product Use** : Wood polish and conditioner .

**Chemical Family** : Mixture.

**Manufacturer part no.** : 96020

**Supplier's name and address:**  
**MF Distributions Inc.**  
 140 Buttermill Ave.  
 Concord, ON, Canada  
 L4K 3X6

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

**Information Telephone #** : (905) 660-7633 (8:00 AM to 5:PM EST)

**24 Hr. Emergency Tel #** : 905-265-2380 or consult local poison control centre immediately.

### 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 B3 (Combustible Liquids);  
 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** : Orange liquid. Citrus odour.  
 Warning! Combustible liquid and vapour. May be harmful or fatal if swallowed. Material is an aspiration hazard. Can enter the lungs and cause damage. May be harmful if inhaled. May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause eye and skin irritation. May cause allergic skin reaction.

### POTENTIAL HEALTH EFFECTS:

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

*Inhalation* : May cause irritation to the nose, throat and upper respiratory tract. Symptoms may include coughing, chest pain and shortness of breath. In extremely high concentrations, may also cause nausea, vomiting, dizziness, drowsiness and other symptoms of central nervous system depression.

*Skin* : May cause mild to moderate irritation. Product may be absorbed.

*Eyes* : May cause moderate eye irritation.

*Ingestion* : May cause irritation of mouth, throat, and stomach. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Material is an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

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

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

**Carcinogenic status** : See TOXICOLOGICAL INFORMATION, Section 11.

**Additional health hazards** : Possible sensitizer. See TOXICOLOGICAL INFORMATION, Section 11.

**Potential environmental effects** : See ECOLOGICAL INFORMATION, Section 12.

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

<b>Ingredients</b>	<b>CAS #</b>	<b>Wt. %</b>
Distillates (petroleum), hydrotreated light	64742-47-8	60.00 - 70.00
Mineral oil	8012-95-1	10.00 - 15.00
Orange oil	8028-48-6	5.00 - 10.00

**SECTION 4 - FIRST AID MEASURES**

- Inhalation** : Immediately remove person to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. If irritation or symptoms develop, seek 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. Wash contaminated clothing before reuse.
- Eye contact** : Immediately flush eyes with running water for at least 15 minutes. If irritation persists, seek prompt medical attention.
- Ingestion** : Call a physician or poison control centre immediately. Do not induce vomiting. Never give anything by mouth if victim is unconscious.
- Notes For Physician** : Treat symptomatically.

**SECTION 5 - FIRE FIGHTING MEASURES****Fire hazards/conditions of flammability**

- : Combustible liquid and vapor. This material may be ignited by heat, sparks and direct flame. Vapours are heavier than air and collect in confined and low-lying areas. Material will float on water and can be re-ignited at the water's surface. 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. Not expected to be sensitive to mechanical impact.

**Suitable extinguishing media** : Use water fog or fine spray, foams, carbon dioxide or dry chemical. 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. Use water to cool fire-exposed containers.

**Hazardous combustion products**

- : Carbon oxides; Nitrogen oxides (NOx); Polycyclic aromatic hydrocarbons; Reactive hydrocarbons; Other unidentified organic compounds.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

- Personal precautions** : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. 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** : Remove all sources of ignition. Ventilate area of release. Stop the spill at source if it is safe to do so. 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). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.
- Prohibited materials** : Do not use combustible absorbents, such as sawdust.

**SECTION 7 - HANDLING AND STORAGE**

- Safe Handling procedures** : Wear chemically resistant protective equipment during handling. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Wash thoroughly after handling. Keep away from heat, sparks, and open flames. Ground all equipment during handling. Keep away from incompatibles. Keep containers tightly closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.
- Storage requirements** : Store in a cool, dry, well ventilated area. Keep away from incompatibles. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area. Do not freeze.
- Incompatible materials** : Oxidizing agents.
- Special packaging materials** : Always keep in containers made of the same materials as the supply container.

**SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION****Exposure Limits**

<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Distillates (petroleum), hydrotreated light	200 mg/m <sup>3</sup> (skin)	N/Av	N/Av	N/Av
Mineral oil	5 mg/m <sup>3</sup> (inhalable)	N/Av	5 mg/m <sup>3</sup> (As 'Oil mist, mineral')	N/Av
Orange oil	N/Av	N/Av	N/Av	N/Av

**Ventilation and engineering measures**

- : Use only in well-ventilated areas. Use local exhaust if mist or spray is generated.

**Respiratory protection**

- : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended. Seek advice from respiratory protection specialists. Refer to CSA Z94.3 or other appropriate standards.

**Skin protection**

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

**Eye / face protection**

- : Safety goggles or glasses as appropriate for the job.

**Other protective equipment**

- : Wear resistant clothing and boots. An eyewash station and safety shower should be made available in the immediate working area.

**General hygiene considerations**

- : Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove soiled clothing and wash it thoroughly before reuse.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Physical state</b>	: liquid	<b>Appearance</b>	: orange
<b>Odour</b>	: Citrus odour.	<b>Odour threshold</b>	: N/Av
<b>pH</b>	: 5.37		
<b>Boiling point</b>	: 250°C (482°F)	<b>Specific gravity</b>	: 0.818
<b>Melting/Freezing point</b>	: < - 60°C (- 76°F)	<b>Coefficient of water/oil distribution</b>	: N/Av
<b>Vapour pressure (mmHg @ 20° C / 68° F)</b>	: < 2	<b>Solubility in water</b>	: Insoluble.
<b>Vapour density (Air = 1)</b>	: 1.4	<b>Evaporation rate (n-Butyl acetate = 1)</b>	: 0.25
<b>Volatile organic Compounds (VOC's)</b>	: N/Av	<b>Volatiles (% by weight)</b>	: 2.7%
<b>Flash point</b>	: 87 - 90°C (189 - 194°F)		
<b>Flash point Method</b>	: open cup	<b>Auto-ignition temperature</b>	: N/Av
<b>Lower flammable limit (% by vol.)</b>	: N/Av	<b>Upper flammable limit (% by vol.)</b>	: N/Av

Flame Projection Length : N/Ap                      Flashback observed : N/Ap  
 Absolute pressure of container : N/Ap                      Viscosity : 9.38 cSt  
 : N/Ap  
 General Information : No additional information.

**Section 10: STABILITY AND REACTIVITY**

Stability and reactivity : Stable under the recommended storage and handling conditions prescribed.  
 Hazardous polymerization : Will not occur.  
 Conditions to avoid : Avoid heat and open flame. Keep away from incompatibles. Keep container tightly closed when not in use.  
 Materials To Avoid And Incompatibility : Oxidizing agents  
 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.  
 Routes of exposure : *Inhalation: YES Skin Absorption: YES Skin & Eyes: YES Ingestion: YES*  
 Irritancy : Moderate skin irritant. Moderate eye irritant.  
 Toxicological data : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

Ingredients	LC <sub>50</sub> (4hr)	LD <sub>50</sub>	
	inh, rat	(Oral, rat)	(Rabbit, dermal)
Distillates (petroleum), hydrotreated light	> 5.2 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg
Mineral oil	> 5 mg/L (mist)	> 5000 mg/kg	> 2000 mg/kg
Orange oil	N/Av	> 5000 mg/kg	> 5000 mg/kg

Carcinogenic status : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.  
 Reproductive effects : Not expected to have other reproductive effects. Contains no ingredient above reportable levels that is known to cause adverse reproductive effects.  
 Teratogenicity : Not expected to be a teratogen. Contains no ingredient above reportable levels that is known to cause teratogenic effects.  
 Mutagenicity : Not expected to be mutagenic in humans. Contains no ingredient above reportable levels that is known to cause mutations in reproductive (germ) and/or non-reproductive cells (somatic).  
 Epidemiology : Not available.  
 Sensitization to material : No data available to indicate product or components may be respiratory sensitizers. Contains Orange oil. Orange oil is composed of > 80% d-Limonene. d-Limonene is known to cause allergic skin reactions (e.g. swelling, rash, eczema).  
 Synergistic materials : Not available.  
 other important hazards : CNS depression may result from extreme exposures.  
 Conditions aggravated by overexposure : Pre-existing skin and respiratory disorders.

**SECTION 12 - ECOLOGICAL INFORMATION**

Ecotoxicity : 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.  
 See the following tables for individual ingredient ecotoxicity data.

**Ecotoxicity data:**

<u>Ingredients</u>	CAS No	Toxicity to Fish		
		LC50 / 96h	NOEC / 21 day	M Factor
Distillates (petroleum), hydrotreated light	64742-47-8	45 mg/L (Fathead minnow)	N/Av	None.
Mineral oil	8012-95-1	> 1000 mg/L (Rainbow trout)	N/Av	None.
Orange oil	8028-48-6	5.65 mg/L (Zebra fish)	N/Av	None.

<u>Ingredients</u>	CAS No	Toxicity to Daphnia		
		EC50 / 48h	NOEC / 21 day	M Factor
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	None.
Mineral oil	8012-95-1	> 100 mg/L (Daphnia magna)	10 mg/L	None.
Orange oil	8028-48-6	1.1 mg/L (Daphnia magna)	N/Av	None.


<u>Ingredients</u>	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Distillates (petroleum), hydrotreated light	64742-47-8	N/Av	N/Av	None.
Mineral oil	8012-95-1	N/Av	> 100 mg/L/72hr (Green algae) (NOEL)	None.
Orange oil	8028-48-6	150 mg/L/72hr (Green algae)	50 mg/L/72hr	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.  
 Contains the following chemicals which are considered to be inherently biodegradable: Mineral oil.  
 The following ingredients are considered to be readily biodegradable: Orange oil.
- Bioaccumulation potential** : No data is available on the product itself.  
 Contains: Distillates (petroleum), hydrotreated light.  
 The log Kow value for Distillates (petroleum), hydrotreated light is 2.1 - 5.
- Other Adverse Environmental effects** : No data is available on the product itself.

**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.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.

**SECTION 14: TRANSPORT INFORMATION**

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None.	Not regulated.	Not regulated	None	
TDG Additional information	None.				

**SECTION 15 - REGULATORY INFORMATION****Labelling:**

Warning! Combustible liquid and vapour. May be harmful or fatal if swallowed. Material is an aspiration hazard. Can enter the lungs and cause damage. May be harmful if inhaled. May cause respiratory irritation. May cause headache, nausea, dizziness and other symptoms of central nervous system depression. May cause eye and skin irritation. May cause allergic skin reaction.

PRECAUTIONS: Use only in well-ventilated areas. Wear chemically resistant protective equipment during handling. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Ground all equipment during handling. Avoid contact with incompatible materials. Keep container tightly closed when not in use. 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 stopped, begin artificial respiration. If irritation or symptoms develop, seek 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. If irritation persists, seek prompt medical attention. If ingested, do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

Refer To Material Safety Data Sheet for further information.

**Canadian Information:**

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

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

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
- CNS: Central Nervous System
- CSA: Canadian Standards Association
- HPA: Hazardous Products Act
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- MSDS: Material Safety Data Sheet
- 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
- RTECS: Registry of Toxic Effects of Chemical Substances

STEL: Short Term Exposure Limit  
 TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
 TLV: Threshold Limit Values  
 WHMIS: Workplace Hazardous Materials Identification System

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2014.
  2. International Agency for Research on Cancer Monographs, searched 2015.
  3. Canadian Centre for Occupational Health and Safety, CCHInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
  4. Material Safety Data Sheets from manufacturer.
  5. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2015.

<p><b>Prepared for:</b>                  MF Distributions Inc.                  140 Buttermill Ave.                  Concord, Ontario, Canada, L4K 3X6                  Telephone: 905-660-7633                  Please direct all enquiries to MF Distributions.</p>	
<p><b>Prepared by:</b>                  ICC The Compliance Center Inc.  <a href="http://www.thecompliancecenter.com">http://www.thecompliancecenter.com</a></p>	

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**Revision Information**

- : (M)SDS sections updated:
2. HAZARDS IDENTIFICATION;
  5. FIRE-FIGHTING MEASURES;
  6. ACCIDENTAL RELEASE MEASURES;
  11. TOXICOLOGICAL INFORMATION;
  12. ECOLOGICAL INFORMATION;
  14. TRANSPORT INFORMATION;
  15. REGULATORY INFORMATION

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