

## 1. Product and Company Identification

**Product Name** BRASSO® Metal Polish  
**CAS #** Mixture

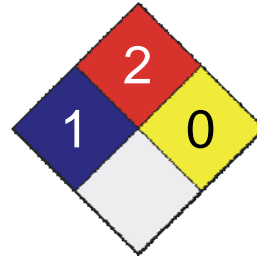
**This MSDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulation.**  
**This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the Canadian Workplace Hazardous Materials Information System (WHMIS).**

**Product Use** Metal Polish

**Distributed by** Reckitt Benckiser (Canada) Inc.  
 1680 Tech Avenue Unit #2  
 Mississauga, ON L4W 5S9  
 In Case of Emergency: 1-800-338-6167  
 Transportation Emergencies: 24 Hour Number:  
 North America: CHEMTREC: 1-800-424-9300  
 Outside North America: 1-703-527-3887

LEGEND HMIS/NFPA	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	/ 1
Flammability	2
Physical Hazard	0
Personal Protection	B



## 2. Hazards Identification

**Emergency Overview** CAUTION  
 MAY IRRITATE EYES AND SKIN.  
 Keep out of reach of children.

**Potential short term health effects**

**Routes of exposure** Eye, Skin contact, Inhalation, Ingestion.

**Eyes** May cause eye irritation.  
 Avoid eye contact.

**Skin** May cause skin irritation. Not expected to be a skin sensitizer.  
 Avoid skin contact.

**Inhalation** None expected during normal conditions of use.

**Ingestion** Health injuries are not known or expected under normal use.

**Target organs** Blood. Eyes. Liver. Respiratory system. Skin.

**Chronic effects** The finished product is not expected to have chronic health effects.

**Signs and symptoms** Symptoms may include redness, oedema, drying, defatting and cracking of the skin.  
 Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

**Potential environmental effects** Components of this product have been identified as having potential environmental concerns.

### 3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Ethanol	64-17-5	0.1 - 1
Oxalic acid	6153-56-6	1 - 5
Isopropanol	67-63-0	1 - 5
Ammonium hydroxide	1336-21-6	1 - 5
Limestone	1317-65-3	10 - 30
Pumice	1332-09-8	3 - 7

### 4. First Aid Measures

#### First aid procedures

<b>Eye contact</b>	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice if symptoms persist.
<b>Skin contact</b>	Wash skin with water. Get medical attention if irritation develops and persists.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Rinse mouth with water. Drink plenty of water. Call a physician or Poison Control Center IMMEDIATELY. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person.

#### Notes to physician

Treat patient symptomatically.

#### General advice

Keep away from sources of ignition. No smoking. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

### 5. Fire-fighting Measures

<b>Flammable properties</b>	Combustible by WHMIS criteria.
<b>Extinguishing media</b>	
<b>Suitable extinguishing media</b>	Dry chemical. Carbon dioxide. Alcohol foam.
<b>Unsuitable extinguishing media</b>	Not available
<b>Protection of firefighters</b>	
<b>Specific hazards arising from the chemical</b>	Not available
<b>Protective equipment for firefighters</b>	Firefighters should wear full protective clothing including self contained breathing apparatus.
<b>Hazardous combustion products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
<b>Explosion data</b>	
<b>Sensitivity to mechanical impact</b>	Not available
<b>Sensitivity to static discharge</b>	Not available

### 6. Accidental Release Measures

<b>Personal precautions</b>	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
<b>Environmental precautions</b>	Do not discharge into lakes, streams, ponds or public waters. Advise authorities if product has penetrated drains, sewers or water pipes.
<b>Methods for containment</b>	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
<b>Methods for cleaning up</b>	Remove sources of ignition. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

## 7. Handling and Storage

<b>Handling</b>	CAUTION EYE AND SKIN IRRITANT. COMBUSTIBLE Avoid contact with eyes, skin and clothing. Ensure adequate ventilation. Use good industrial hygiene practices in handling this material. When using do not eat or drink. Wash thoroughly after handling. Not for use on silver, lacquered, painted or antiqued-finished surfaces.
<b>Storage</b>	Keep out of reach of children. Keep from freezing. Do not store at temperatures above 120°F (49°C). Store in a cool dry place inaccessible to children and pets.

## 8. Exposure Controls / Personal Protection

### Exposure limit values

Ingredient(s)	Exposure limit values
Ammonium hydroxide	<b>ACGIH-TLV</b> Not established
Ethanol	<b>ACGIH-TLV</b> TWA: 1000 ppm STEL: 1000 ppm
Isopropanol	<b>ACGIH-TLV</b> TWA: 200 ppm STEL: 400 ppm
Limestone	<b>ACGIH-TLV</b> TWA: 5 mg/m <sup>3</sup>
Oxalic acid	<b>ACGIH-TLV</b> TWA: 1 mg/m <sup>3</sup> STEL: 2 mg/m <sup>3</sup>
Pumice	<b>ACGIH-TLV</b> Not established

### Engineering controls

General ventilation normally adequate.

### Personal protective equipment

**Consult the product label for special protection or precautions that have been identified for using this product under directed consumer use conditions. The following recommendations are given for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure.**

#### Eye / face protection

Avoid contact with eyes. If splashing is likely to occur or for occupational exposures, wear appropriate eye protection.  
Emergency responders should wear full eye and face protection.

#### Hand protection

Wear impervious gloves where the potential for contact with the liquid is possible.  
Emergency responders should wear impermeable gloves.

#### Skin and body protection

As required by employer code.  
Usual safety precautions while handling the product will provide adequate protection against injury or irritation.  
Follow label directions carefully.

#### Respiratory protection

No special requirements under normal use conditions. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.  
Emergency responders should wear self-contained breathing apparatus (SCBA) to avoid inhalation of vapours generated by this product during a spill or other clean-up operations.

**General hygiene considerations** Handle in accordance with good industrial hygiene and safety practice.  
When using do not eat or drink.  
Wash hands before breaks and immediately after handling the product.  
Avoid contact with eyes, skin and clothing.

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## 9. Physical and Chemical Properties

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<b>Appearance</b>	Liquid
<b>Colour</b>	Light tan
<b>Form</b>	Liquid
<b>Odour</b>	Ammoniacal
<b>Odour threshold</b>	Not available
<b>Physical state</b>	Liquid
<b>pH</b>	9.6 - 10.2
<b>Freezing point</b>	Not available
<b>Boiling point</b>	Not available
<b>Pour point</b>	Not available
<b>Evaporation Rate</b>	Not available
<b>Flash point</b>	40.55 °C (105 °F) TCC
<b>Auto-ignition temperature</b>	Not available
<b>Flammability limits in air, lower, % by volume</b>	Not available
<b>Flammability Limits in Air, Upper, % by Volume</b>	Not available
<b>Vapour pressure</b>	Not available
<b>Vapour density</b>	Not available
<b>Specific gravity</b>	1.104 - 1.140
<b>Octanol/water coefficient</b>	Not available
<b>Solubility (H2O)</b>	Insoluble
<b>VOC (Weight %)</b>	Not available
<b>Viscosity</b>	Viscous
<b>Percent volatile</b>	Not available

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## 10. Stability and Reactivity

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<b>Reactivity</b>	DO NOT MIX WITH BLEACH or use in conjunction with other household products.
<b>Possibility of hazardous reactions</b>	Hazardous polymerisation does not occur.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Conditions to avoid</b>	Avoid high temperatures. Do not mix with other chemicals. Excessive heat and moisture. Keep away from open flames, hot surfaces and sources of ignition.
<b>Incompatible materials</b>	Not for use on silver, lacquered, painted or antiqued finished surfaces.
<b>Hazardous decomposition products</b>	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.

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## 11. Toxicological Information

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### Component analysis - LC50

<b>Ingredient(s)</b>	<b>LC50</b>
Ammonium hydroxide	Not available
Ethanol	31623 ppm rat
Isopropanol	16970 mg/l/4h rat
Limestone	Not available
Oxalic acid	Not available
Pumice	Not available

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**Component analysis - Oral LD50**

<b>Ingredient(s)</b>	<b>LD50</b>
Ammonium hydroxide	350 mg/kg rat
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Isopropanol	4396 mg/kg rat
Limestone	6450 mg/kg rat
Oxalic acid	375 mg/kg rat
Pumice	14105 mg/kg rat

**Effects of acute exposure**

<b>Eye</b>	May cause eye irritation. Avoid eye contact.
<b>Skin</b>	May cause skin irritation. Not expected to be a skin sensitizer. Avoid skin contact.
<b>Inhalation</b>	None expected during normal conditions of use.
<b>Ingestion</b>	Health injuries are not known or expected under normal use.
<b>Sensitisation</b>	The finished product is not expected to have chronic health effects.
<b>Chronic effects</b>	The finished product is not expected to have chronic health effects.
<b>Carcinogenicity</b>	The finished product is not expected to have chronic health effects.
<b>Mutagenicity</b>	The finished product is not expected to have chronic health effects.
<b>Reproductive effects</b>	The finished product is not expected to have chronic health effects.
<b>Teratogenicity</b>	The finished product is not expected to have chronic health effects.

**Name of Toxicologically Synergistic Products** Not available

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## 12. Ecological Information

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**Ecotoxicity** Components of this product have been identified as having potential environmental concerns.

**Ecotoxicity - Freshwater Algae - Acute Toxicity Data**

Isopropanol	67-63-0	96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L
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**Ecotoxicity - Freshwater Fish - Acute Toxicity Data**

Ammonium hydroxide	1336-21-6	96 Hr LC50 Pimephales promelas: 8.2 mg/L
Ethanol	64-17-5	96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static]; 96 Hr LC50 Pimephales promelas: >100 mg/L [static]; 96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through]
Isopropanol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L

**Ecotoxicity - Water Flea - Acute Toxicity Data**

Ammonium hydroxide	1336-21-6	48 Hr EC50 water flea: 0.66 mg/L; 48 Hr EC50 Daphnia pulex: 0.66 mg/L
Ethanol	64-17-5	48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L; 24 Hr EC50 Daphnia magna: 10800 mg/L; 48 Hr EC50 Daphnia magna: 2 mg/L [Static]
Isopropanol	67-63-0	48 Hr EC50 Daphnia magna: 13299 mg/L

<b>Persistence and degradability</b>	Not available
<b>Bioaccumulation/accumulation</b>	Not available
<b>Mobility in environmental media</b>	Not available
<b>Environmental effects</b>	Not available
<b>Aquatic toxicity</b>	Not available

<b>Partition coefficient</b>	Not available
<b>Chemical fate information</b>	Not available
<b>Other adverse effects</b>	Not available

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## 13. Disposal Considerations

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<b>Disposal instructions</b>	Dispose in accordance with all applicable regulations. Empty container can be disposed of as household trash or rinsed and recycled where appropriate.
<b>Waste from residues / unused products</b>	Not available
<b>Contaminated packaging</b>	Not available

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## 14. Transport Information

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### U.S. Department of Transportation (DOT)

Not Regulated by DOT (Road/Rail Only) 173.150 (f) (2)

### Transportation of Dangerous Goods (TDG - Canada)

Not Regulated by TDG (Road/Rail Only), TDG Part 1.36

### IMDG (Marine Transport)

UN 1987, Alcohols, N.O.S. (Isopropanol, Ethanol), Class 3, PG III, Limited Quantity, (Flashpoint 40.556°C cc)

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## 15. Regulatory Information

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**Canadian federal regulations** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Product Registration: Product is compliant with CCCR regulatory guidelines; a specific registration is not required for this product.

Smectite group minerals and limestone are listed on the NDSL. However, they are exempt from notification to Environment Canada because the substances are naturally occurring.

### Canada - WHMIS - Ingredient Disclosure List

Ammonium hydroxide	1336-21-6	1 %
Ethanol	64-17-5	0.1 %
Isopropanol	67-63-0	1 %

**WHMIS classification** Exempt - Consumer product

### Inventory Status

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

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## 16. Other Information

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**Disclaimer** This product should only be used as directed on the label and for the purpose intended. To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

**Further information** BRASSO® Metal Polish, 142 mL - 0175699v1.0

**Issue date** 19-Dec-2012

**Effective Date** 15-Dec-2012

**Expiry Date** 15-Dec-2015

**Prepared by** Reckitt Benckiser Regulatory Department 800-333-3899

**Other Information** For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.