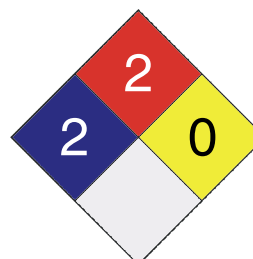


1. Product and Company Identification

Product Name BRASSO® METAL POLISH
UPC CODES Refer to Section 16
CAS # Mixture
Product Use Metal Polish
Manufacturer Reckitt Benckiser (Canada) Inc.
 1680 Tech Avenue Unit #2
 Mississauga, ON L4W 5S9
 In Case of Emergency: 1-800-888-0192
 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	* 2
Flammability	2
Physical Hazard	0
Personal Protection	B



2. Hazards Identification

Emergency Overview CAUTION
 MAY IRRITATE EYES AND SKIN.
 Contains ammonia.

 Keep out of reach of children.

Potential short term health effects

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

Eyes Eye irritant.
 Avoid eye contact.

Skin Skin irritant. Not expected to be a skin sensitizer.
 Avoid skin contact.

Inhalation Harmful by inhalation. Use only in a well ventilated area.

Ingestion May be harmful if swallowed.

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.

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

4. First Aid Measures

First aid procedures

Eye contact	If in eyes, IMMEDIATELY rinse eyes with water. Remove any contact lenses and continue rinsing eyes for at least 15 minutes. If irritation persists, get medical attention.
Skin contact	If on skin, wash with soap and water. Get medical attention, if irritation persists.
Inhalation	Move to fresh air.
Ingestion	If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre IMMEDIATELY. NEVER give an unconscious person anything to ingest.

Notes to physician

Contains petroleum distillates and silica.

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

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

6. Accidental Release Measures

Personal precautions	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.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	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

Handling	CAUTION EYE AND SKIN IRRITANT. COMBUSTIBLE Avoid contact with eyes, skin and clothing. Use good industrial hygiene practices in handling this material. When using do not eat or drink.
Storage	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	ACGIH-TLV Not established
Ethanol	ACGIH-TLV TWA: 1000 ppm STEL: 1000 ppm
Isopropanol	ACGIH-TLV TWA: 200 ppm STEL: 400 ppm
Limestone	ACGIH-TLV TWA: 5 mg/m ³
Oxalic acid	ACGIH-TLV TWA: 1 mg/m ³ STEL: 2 mg/m ³

Engineering controls

General ventilation normally adequate.

Personal protective equipment

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.

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.

9. Physical and Chemical Properties

Appearance	Liquid
Colour	off-white. tan.
Form	Liquid
Odour	ammoniacal
Odour threshold	Not available
Physical state	Liquid
pH	9.6 - 10.2
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Flash point	40.55 °C (105 °F) TCC
Evaporation Rate	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available

Specific gravity	Not available
Octanol/water coefficient	Not available
Solubility (H2O)	Insoluble
Auto-ignition temperature	Not available
VOC (Weight %)	Not available
Viscosity	Viscous
Percent volatile	Not available

10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Not for use on silver, lacquered, painted or antiqued finished surfaces.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of nitrogen.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.

11. Toxicological Information

Component analysis - LC50

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

Component analysis - Oral LD50

Ingredient(s)	LD50
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

Effects of acute exposure

Eye	Eye irritant. Avoid eye contact.
Skin	Skin irritant. Not expected to be a skin sensitizer. Avoid skin contact.
Inhalation	Harmful by inhalation. Use only in a well ventilated area.
Ingestion	May be harmful if swallowed.

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

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

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

ACGIH - Threshold Limit Values - Carcinogens

Ethanol	64-17-5	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Isopropanol	67-63-0	A4 - Not Classifiable as a Human Carcinogen

IARC - Group 1 (Carcinogenic to Humans)

Ethanol	64-17-5	Monograph 96 [in preparation] (in alcoholic beverages)
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IARC - Group 3 (Not Classifiable)

Isopropanol	67-63-0	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]
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Mutagenicity The finished product is not expected to have chronic health effects. Mutagenic effects were observed in somatic and reproductive cells of live animals (rats and mice) exposed to high oral doses of ethanol.

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

Teratogenicity	The finished product is not expected to have chronic health effects. Animal studies demonstrate that ingestion of ethanol can cause embryotoxicity, teratogenicity and fetotoxicity in the presence of maternal toxicity.
Synergistic Materials	Not available

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae Data		
Isopropanol	67-63-0	96 Hr EC50 <i>Desmodesmus subspicatus</i> : >1000 mg/L; 72 Hr EC50 <i>Desmodesmus subspicatus</i> : >1000 mg/L
Ecotoxicity - Freshwater Fish Species Data		
Ammonium hydroxide	1336-21-6	96 Hr LC50 <i>Pimephales promelas</i> : 8.2 mg/L
Ethanol	64-17-5	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 12.0-16.0 ml/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : >100 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 13400-15100 mg/L [flow-through]
Isopropanol	67-63-0	96 Hr LC50 <i>Pimephales promelas</i> : 9640 mg/L [flow-through]; 96 Hr LC50 <i>Pimephales promelas</i> : 11130 mg/L [static]; 96 Hr LC50 <i>Lepomis macrochirus</i> : >1400000 µg/L
Ecotoxicity - Water Flea Data		
Ammonium hydroxide	1336-21-6	48 Hr EC50 water flea: 0.66 mg/L; 48 Hr EC50 <i>Daphnia pulex</i> : 0.66 mg/L
Ethanol	64-17-5	48 Hr LC50 <i>Daphnia magna</i> : 9268 - 14221 mg/L; 24 Hr EC50 <i>Daphnia magna</i> : 10800 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 2 mg/L [Static]
Isopropanol	67-63-0	48 Hr EC50 <i>Daphnia magna</i> : 13299 mg/L
Environmental effects	Not available	
Aquatic toxicity	Not available	
Persistence and degradability	Not available	
Bioaccumulation/accumulation	Not available	
Partition coefficient	Not available	
Mobility in environmental media	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	

13. Disposal Considerations

Waste codes	Not available
Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

U.S. Department of Transportation (DOT)

UN 1987, Alcohols, N.O.S. (Isopropanol, Ethanol),
Class 3, PG III, Limited Quantity - Re-classed as
Consumer Commodity ORM-D

Transportation of Dangerous Goods (TDG - Canada)

UN 1987 Alcohols, N.O.S. (Ethanol, Propyl Alcohol),
Class 3, PG III Limited Quantity Re-classed as
Consumer Commodity/ LTD. QTY

IMDG (Marine Transport)

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

IATA/ICAO (Air)

UN 1987, Alcohols, N.O.S. (Isopropanol, Ethanol),
Class 3, PG III, Limited Quantity or Consumer
Commodity, ID 8000 if acceptable to airline.

15. Regulatory Information

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: Not registered

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)

16. Other Information

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

UPC CODES: 56200-00049 (142 mL)

FORMULA NUMBER: 0175699

Issue date

09-Mar-2010

Effective Date

31-Oct-2009

Expiry Date

31-Oct-2012

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.