

MATERIAL SAFETY DATA SHEET

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

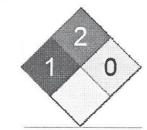
Distributed by

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

LEGEN)
HMIS/NF	PA
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0





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 eve 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

Potential environmental effects

Components of this product have been identified as having potential

environmental concerns.

3. Composition/Information on Ingredients

CAS#	Percent
64-17-5	0.1 - 1
6153-56-6	1 - 5
67-63-0	1 - 5
1336-21-6	1 - 5
1317-65-3	10 - 30
1332-09-8	3 - 7
	64-17-5 6153-56-6 67-63-0 1336-21-6 1317-65-3

4. First Aid Measures

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Eye contact

In case of contact with eyes, rinse immediately with plenty of water and seek medical

advice if symptoms persist.

Skin contact

Wash skin with water. Get medical attention if irritation develops and persists.

Move to fresh air.

Inhalation Ingestion

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 General advice Treat patient symptomatically.

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

firefighers

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.

Environmental precautions

Do not discharge into lakes, streams, ponds or public waters.

Advise authorities if product has penetrated drains, sewers or water pipes.

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.

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.

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/m3	
Oxalic acid	ACGIH-TLV	
	TWA: 1 mg/m3	
	STEL: 2 mg/m3	
Pumice	ACGIH-TLV	
	Not established	

Engineering controls

Personal protective equipment

General ventilation normally adequate.

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.

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.

9. Physical and Chemical Properties

Appearance Liquid Colour Light tan Form Liquid Odour Ammoniacal **Odour threshold** Not available Physical state Liquid 9.6 - 10.2 pH Freezing point Not available **Boiling point** Not available Not available Pour point **Evaporation Rate** Not available

40.55 °C (105 °F) TCC Flash point

Not available

Not available

Not available

Auto-ignition temperature Flammability limits in air, lower, %

by volume

Flammability Limits in Air, Upper, %

by Volume

Vapour pressure Not available Vapour density Not available Specific gravity 1.104 - 1.140

Octanol/water coefficient Not available Solubility (H2O) insoluble VOC (Weight %) Not available Viscosity Viscous Percent volatile Not available

10. Stability and Reactivity

Reactivity DO NOT MIX WITH BLEACH or use in conjunction with other household products.

Possibility of hazardous reactions

Chemical stability

Incompatible materials

Hazardous polymerisation does not occur.

Stable under recommended storage conditions.

Conditions to avoid Avoid high temperatures.

Do not mix with other chemicals. Excessive heat and moisture.

Keep away from open flames, hot surfaces and sources of ignition. 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.

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 Pumice Not available

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Component analysis - Oral LD50

Ingredient(s)

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	······································
Pumice	14105 mg/kg rat	

Effects of acute exposure

Eye 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.

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. Mutagenicity The finished product is not expected to have chronic health effects. R *oductive effects The finished product is not expected to have chronic health effects.

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

Name of Toxicologically Synergistic Not available

Products

12. Ecological Information

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

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 48 Hr EC50 water flea: 0.66 mg/L, 48 Hr EC50 Daphnia pulex: 0.66 mg/L 1336-21-6

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

Not available

Persistence and degradability Not available Bioaccumulation/accumulation Not available Mobility in environmental media Not available **Environmental effects** Not available

Aquatic toxicity

Partition coefficient	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	
	13. Disposal Considerations	
Disposal instructions	Dispose in accordance with all applicable regulations. Empty container can be disposed of as household trash or rinsed and recycled where appropriate.	
Waste from residues / unused products	Not available	
Contaminated packaging	Not available	

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)

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

Smectite group minerals and limestome 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 Isopropanol 64-17-5 67-63-0 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 Yes

Canada

Non-Domestic Substances List (NDSL)

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

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

Issue date
Effective Date
Expiry Date

19-Dec-2012 15-Dec-2012

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.