

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

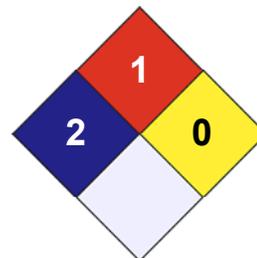
Product name Professional EASY-OFF® - Stainless Steel Cleaner & Polish
CAS # Mixture
This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).
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.

Product Use Cleaner/Polish

Distributed by Reckitt Benckiser
 Morris Corporate Center IV
 399 Interpace Parkway
 Parsippany, NJ 07054-0225
 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	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 2
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	B



2. Hazards Identification

Emergency overview CAUTION
 CONTENTS UNDER PRESSURE.
 MAY CAUSE EYE IRRITATION. Avoid contact with eyes and skin. Do not puncture or incinerate container. DO NOT expose to heat or store at temperatures above 120°F (49°C).
 KEEP OUT OF REACH OF CHILDREN. MAY CAUSE RESPIRATORY TRACT IRRITATION.

Potential short term health effects

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

Eyes May cause eye irritation.

Skin May be irritating to the skin.
 Not expected to be a skin sensitizer.

Inhalation None expected during normal conditions of use.

Ingestion Not a normal route of exposure. There is no known adverse effect from exposure to the recommended use of this product. Liquid phase of this product may present an aspiration hazard if ingested.

Target organs Skin. Eyes.

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

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

OSHA regulatory status This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Potential environmental effects See section 12.

3. Composition/Information on Ingredients

Components	CAS #	Percent
Isobutane	75-28-5	10 - 20
Distillates (petroleum), light hydrotreated	64742-47-8	2.5 - 10
Propane	74-98-6	2.5 - 10

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	Immediately flush with cool water for 15 minutes while removing contaminated clothing and shoes. Discard or wash well before reuse. Call a physician if irritation persists.
Inhalation	If symptoms develop move victim to fresh air.
Ingestion	Contact doctor immediately. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness or is convulsing. Immediately rinse mouth out with water.

Notes to physician

Symptoms may be delayed.

General advice

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children. Do not puncture or incinerate container.

5. Fire Fighting Measures

Flammable properties

Not flammable by OSHA criteria.
Aerosol flame extension: > 18 inches (45 cm). Containers may explode when heated.

Extinguishing media

Suitable extinguishing media Water spray. Foam. Dry chemical. Carbon dioxide.

Unsuitable extinguishing media Do not use water jet.

Protection of firefighters

Specific hazards arising from the chemical Contents under pressure. Pressurized container may explode when exposed to heat or flame. Cool containers with flooding quantities of water until well after fire is out.

Protective equipment and precautions 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.

Explosion data

Sensitivity to mechanical impact Not available.

Sensitivity to static discharge Not available.

6. Accidental Release Measures

Personal precautions

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Before attempting clean up, refer to hazard data given above. Remove sources of ignition. Although the chance of a significant spill or leak is unlikely in aerosol containers, in the event of such an occurrence, absorb spilled material with a non-flammable absorbent such as sand or vermiculite.

7. Handling and Storage

Handling	Ensure adequate ventilation. Avoid contact with eyes, skin and clothing. When using do not eat or drink. Wash thoroughly after handling. Use good industrial hygiene practices in handling this material. Avoid breathing vapors or mists of this product. Do not use on floors, bathtubs or food contact surfaces.
Storage	Store in a closed container away from incompatible materials. Keep out of reach of children. Do not store at temperatures above 49 °C (120.2°F). Keep away from heat, open flames or other sources of ignition.

8. Exposure Controls/Personal Protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Isobutane (CAS 75-28-5)	STEL	1000 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Propane (CAS 74-98-6)	PEL	1800 mg/m3 1000 ppm

Exposure limits Chemicals listed in section 3 that are not listed here do not have established limit values for ACGIH or OSHA PEL.

Engineering controls General ventilation normally adequate.

Personal protective equipment

Eye / face protection 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 Wear safety glasses with side shields. Emergency responders should wear full eye and face protection.

Hand protection Rubber gloves. Confirm with a reputable supplier first.
Emergency responders should wear impermeable gloves.

Skin and body protection As required by employer code.
Emergency responders should wear impermeable clothing and footwear when responding to a situation where contact with the liquid is possible.

Respiratory protection 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 Wash hands and face before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink.

9. Physical and Chemical Properties

Appearance	Aerosol.
Color	White/off-white
Form	Spray
Odor	Solvent
Odor threshold	Not available.
Physical state	Liquid.
pH	Not available.
Freezing point	Not available.
Boiling point	Not available.
Pour point	Not available.
Evaporation rate	Not available
Flash point	Not available.

Auto-ignition temperature	Not available.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.
Vapor pressure	50 PSIG @ 70°F
Vapor density	Not available.
Specific gravity	0.947 @ 25°C
Partition coefficient (n-octanol/water)	Not available.
Solubility (water)	Not available.
Relative density	Not available.
Viscosity	Not available.
VOC	Not available
Percent volatile	Not available

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C (120.2°F).
Incompatible materials	Acids. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Toxicological data

Components	Species	Test Results
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	> 2.8 mg/l/4h
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg
Isobutane (CAS 75-28-5)		
Acute		
<i>Inhalation</i>		
LC50	Rat	658 mg/l/4h
<i>Oral</i>		
LD50	Not available	
Propane (CAS 74-98-6)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Rat	> 1442.8 mg/l, 15 Minutes
<i>Oral</i>		
LD50	Not available	

Effects of acute exposure

Eye contact	May cause eye irritation.
Skin contact	May be irritating to the skin. Not expected to be a skin sensitizer.
Inhalation	None expected during normal conditions of use.
Ingestion	Not a normal route of exposure. There is no known adverse effect from exposure to the recommended use of this product. Liquid phase of this product may present an aspiration hazard if ingested.
Sensitization	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.
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.
Name of Toxicologically Synergistic Products	Not available.

12. Ecological Information

Ecotoxicity	See below		
Ecotoxicological data			
Components	Species		Test Results
Distillates (petroleum), light hydrotreated (CAS 64742-47-8)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours
Persistence and degradability	Not available.		
Bioaccumulation / Accumulation	Not available		
Mobility in environmental media	Not available.		
Environmental effects	Not available.		
Aquatic toxicity	Not available.		
Partition coefficient			
Isobutane		2.76	
Propane		2.36	
Chemical fate information	Not available.		

13. Disposal Considerations

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)

UN1950, Aerosols, Flammable, Limited Quantity

Transportation of Dangerous Goods (TDG - Canada)

UN1950, Aerosols, Flammable, Limited Quantity

IATA/ICAO (Air)

UN1950, Aerosols, Flammable, Limited Quantity

IMDG (Marine Transport)

UN1950, Aerosols, Flammable, Limited Quantity

15. Regulatory Information

Occupational Safety and Health Administration (OSHA)

29 CFR 1910.1200 hazardous chemical Yes

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Isobutane (CAS 75-28-5) Listed.
Propane (CAS 74-98-6) Listed.

US CAA Section 112(r) Accidental Release Prevention - Regulated Flammable Substance: Listed substance

Isobutane (CAS 75-28-5) Regulated flammable substance.
Propane (CAS 74-98-6) Regulated flammable substance.

US CAA Section 112(r) Accidental Release Prevention: Threshold quantity

Isobutane (CAS 75-28-5) 10000 LBS
Propane (CAS 74-98-6) 10000 LBS

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Isobutane (CAS 75-28-5) Listed.
Propane (CAS 74-98-6) Listed.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

US CAA Section 612 SNAP Program: Listed substance

Propane (CAS 74-98-6) Listed.

CERCLA (Superfund) reportable quantity

Propane: 100

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - Yes
Reactivity Hazard - No

State regulations This product is not subject to warning labeling under the California Proposition 65 regulation.

US - Illinois Chemical Safety Act: Listed substance

Isobutane (CAS 75-28-5) Listed.
Propane (CAS 74-98-6) Listed.

US - Louisiana Spill Reporting: Listed substance

Isobutane (CAS 75-28-5) Listed.
Propane (CAS 74-98-6) Listed.

US - Minnesota Haz Subs: Listed substance

Isobutane (CAS 75-28-5) Listed.
Propane (CAS 74-98-6) Listed.

US - New Jersey RTK - Substances: Listed substance

Isobutane (CAS 75-28-5) Listed.
Propane (CAS 74-98-6) Listed.

US - Texas Effects Screening Levels: Listed substance

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US. Massachusetts RTK - Substance List

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US. Pennsylvania RTK - Hazardous Substances

Distillates (petroleum), light hydrotreated (CAS 64742-47-8)	Listed.
Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

US. Rhode Island RTK

Isobutane (CAS 75-28-5)	Listed.
Propane (CAS 74-98-6)	Listed.

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	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	Professional EASY-OFF® Stainless Steel Cleaner and Polish - 378185v2.0
Issue date	30-July-2014
Effective date	31-July-2014
Prepared by	Reckitt Benckiser Regulatory Department Phone: 800-333-3899
Other information	For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document. This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.