



SAFETY DATA SHEET

BE048 – Stainless Steel Cleaner & Polish

Issue Date 9-15-15

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Stainless Steel Cleaner & Polish

Other Means of Identification

Product Code BE048

Recommended Use of the Chemical and Restrictions on Use

Recommended Use Solvent based specialty cleaner & polish for stainless steel.
Uses Advised Against For industrial and commercial use only.

Details of the Supplier of the Safety Data Sheet

Supplier Mopec
21750 Coolidge Highway
Oak Park, MI 48237

Emergency Telephone Number

Supplier Phone Number 800-362-8491
Emergency Telephone INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America) (Reference #88867)

2. HAZARDS IDENTIFICATION

Classification

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2

Signal Word

WARNING

Hazard Statements

May be harmful if swallowed
May cause skin irritation
Causes severe eye irritation



Appearance Pink liquid

Physical State Liquid

Odor Orange fragrance

BE048 – Stainless Steel Cleaner & Polish

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Wear protective gloves/protective clothing/eye protection/face protection
Contaminated clothing should not be allowed out of the workplace.
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed.
Do not taste or swallow

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
Get medical attention if irritation occurs

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Rinse mouth

Precautionary Statements - Storage

Store locked up in a cool, dry, well-ventilated place. Keep out of reach of children. Keep unused container tightly closed and in upright position.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards Not Otherwise Classified (HNOC)

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
D-Limonene	5989-27-5	65-75%
2-Butoxyethanol	111-76-2	10-20%

The balance of ingredients are not classified as hazardous to health or the environment. The specific chemical identity and/or exact percentage has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice	If exposed or concerned: Get medical advice/attention.
Inhalation	Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if irritation occurs.
Eye Contact	Immediately flush eyes thoroughly with water for at least 15 minutes. Seek medical attention.
Ingestion	Drink 1-2 glasses of water and immediately all poison control center or doctor for treatment advice.
Skin Contact	Wash with plenty of soap and water. Get medical attention if irritation occurs.
Symptoms	May be harmful if swallowed. Irritation to skin and eyes. Irritation by inhalation. Prolonged or repeated exposure can cause drying, defatting, or dermatitis of skin.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physicians	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry Chemical, Carbon Dioxide. Water spray fog. Alcohol resistant foam.

Unsuitable Extinguishing Media Water spray may be inefficient.

Specific Hazards Arising from the Chemical

Keep away from heat, sparks, and flame. Guard against spontaneous combustion of improperly discarded oily rags.

Hazardous Combustion Products Carbon monoxide. Carbon dioxide (CO₂). Thermal decomposition can lead to release of irritation and toxic gasses and vapors.

Sensitivity to Static Discharge Take precautionary measures against static discharge.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Firefighters should wear self-contained breathing apparatus. Smother to exclude air. Do not use water. Handle as an oil fire, Class B fire procedures.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Remove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Keep people away from up wind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharge.

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewers.

Methods and Material for Containment and Cleaning Up

Methods for Containment Prevent further leakage or spillage if safe to do so. Eliminate all ignition sources.

Methods for Cleaning Up Absorb spilled material with inert material such as sand or sawdust and sweep up. Do not hose spills down drains, sewers, or waterways. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on Safe Handling Ensure adequate ventilation, especially in confined areas. Keep away from heat, sparks, flame and other sources of ignition (i.e.: pilot lights, electric motors and static electricity). Take precautionary measures against static discharges. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when handling this product. Wear protective gloves/protective clothing and eye/face protection. Ground/bond container and receiving equipment. Use non-sparking tools. Use explosion proof equipment. Wash face, hands, and any exposed skin thoroughly after handling. Guard against spontaneous combustion of improperly discarded oily rags.

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions Store locked up. Store away from incompatible materials. Store in a well ventilated area at temperature below 70° F. Keep container tightly closed in an upright position.

Incompatible Materials Strong oxidizing agents. Acidic agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm 100 mg/m ³	TWA: 50 ppm TWA: 240 mg/m ³	TWA: 5 ppm TWA: 24 mg/m ³

Appropriate Engineering Controls

Engineering Controls Good general ventilation (local exhaust) should be sufficient. Eyewash stations. Showers.

Individual Protection Measures, such as Personal Protective Equipment

Eye/Face Protection Splash proof chemical safety goggles.

Skin and Body Protection Oil resistant gloves. Oil resistant apron.

Respiratory Protection Under normal circumstances, no protective equipment is needed. If vapor concentration becomes high, use NIOSH approved respirators.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Take off all contaminated clothing and wash it before reuse. Wash face, hands and any exposed skin thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	Liquid	Odor	Citrus
Appearance	Pink liquid	Odor Threshold	Not determined
Color	Pink		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	Not an aqueous solution	
Melting Point/Freezing Point	Not determined	
Boiling Point/Boiling Range	Not determined	
Flash Point	>115°F (46.1°C)	
Evaporation Rate	0.2	(butyl acetate = 1)
Flammability (Solid, Gas)	N/A- Liquid	
Upper Flammability Limits	6.1%	
Lower Flammability Limit	0.7%	
% Volatile by Volume	95+%	
Specific Gravity	0.863	
Water Solubility	Insoluble in water	
Solubility in Other Solvents	Not determined	
Partition Coefficient	Not determined	
Explosive Properties	Keep away from heat, sparks, and open flame.	

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Not determined

Conditions to Avoid

Excessive heat, sparks and flames. Incompatible Materials.

Incompatible Materials

Strong oxidizing agents. Acidic agents.

Hazardous Decomposition Products

Carbon monoxide. Carbon dioxide (CO₂). Smoke may be acrid and fumes irritating.

11. TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

- Inhalation** Avoid breathing vapors or mists.
- Eye Contact** Causes severe eye irritation.
- Skin Contact** Causes skin irritation. May be absorbed through skin contact.
- Ingestion** Do not taste or swallow. Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
D-Limonene 5989-27-5	4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
2-Butoxyethanol 111-76-2	745 mg/kg (Rat) 2000 mg/kg 9 (Rat)	1250mg/kg (Rat) 3500 mg/kg (Mouse)	550 ppm (Rat) 4 h 2.5 mg/l (Rat) 4 h

Information on Physical, Chemical and Toxicological Effects

Symptoms Irritating to skin. Irritating to eyes.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

- Skin Corrosion/Irritation** Causes skin irritation.
- Serious Eye Damage/Eye Irritation** Causes severe eye irritation.

Carcinogenicity No components of this product are listed as carcinogens or potential carcinogens by ACGIH, IARC, NTP or OSHA.

Numerical Measures of Toxicity

Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
D-Limonene 5989-27-5		LC50: flow-through Pimephales promelas 0.619 - 0.796 mg/L 96 h LC50: Oncorhynchus mykiss 35 96 h mg/L		
2-Butoxyethanol 111-76-2	EC50: Pseudokirchneriella subcapitata 911 mg/l 72h	LC50: Oncorhynchus mykiss 1474 mg/l 96 h		1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50

Persistence and Degradability

Not determined

Bioaccumulation

Not determined

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not reuse container

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

DOT **12/Qt. Cases and 4/Gal Cases do not require label/placard for US Ground Transportation, CFR 173.150 applies**

UN/ID No UN2319
Proper Shipping Name Terpene Hydrocarbons, N.O.S
Hazard Class 3
Packing Group III

IATA

BE048 – Stainless Steel Cleaner & Polish

UN/ID No	UN2319
Proper Shipping Name	Terpene Hydrocarbons, N.O.S
Hazard Class	3
Packing Group	III

IMDG

UN/ID No	UN2319
Proper Shipping Name	Terpene Hydrocarbons, N.O.S
Hazard Class	3
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed
DSL	Listed
NDSL	Listed

Legend:

- TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*
- DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*
- EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*
- ENCS - Japan Existing and New Chemical Substances*
- IECSC - China Inventory of Existing Chemical Substances*
- KECL - Korean Existing and Evaluated Chemical Substances*
- PICCS - Philippines Inventory of Chemicals and Chemical Substances*

US Federal Regulations

SARA 313

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
2-Butoxyethanol - 111-76-2	111-76-2	<20	1.0

US State Regulations

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
2-Butoxyethanol 111-76-2	X	X	X

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards 2	Flammability 1	Instability 0	Special Hazards Not determined
<u>HMIS</u>	Health Hazards 2	Flammability 1	Physical Hazards 0	Personal Protection B

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet