

# MATERIAL SAFETY DATA SHEET

3D228

## 1. Product and Company Identification

Product number	BSL9408
Product name	Bright Solutions Stainless Steel Cleaner & Polish
Effective date	03-Dec-2009
Company information	Bright Solutions 4111 South Creek Road Chattanooga, TN 37406 United States
Emergency telephone US	800-424-9300
Emergency telephone outside US	703-527-3887
Version #	08
Supersedes date	11-Sep-2009

## 2. Hazards Identification

Emergency overview	FLAMMABLE CONTENTS UNDER PRESSURE. Aerosol. Harmful in contact with eyes.
Potential health effects	
Routes of exposure	Eye contact. Skin contact. Ingestion.
Eyes	Contact may irritate or burn eyes. Eye contact may result in corneal injury.
Skin	Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).
Inhalation	Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Prolonged inhalation may be harmful.
Ingestion	Exposure by ingestion of an aerosol is unlikely. May cause delayed lung damage. Components of the product may be absorbed into the body by ingestion.
Target organs	Central nervous system. Lungs.
Chronic effects	Conjunctiva. May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. May cause delayed lung damage.
Signs and symptoms	Discomfort in the chest. Corneal damage. Narcosis. Conjunctivitis. Defatting of the skin. Irritation.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	20 - 30
Propane	74-98-6	10 - 15
Odorless Mineral Spirits	64742-48-9	10 - 15
Acetone	67-64-1	10 - 15
Methyl Acetate	79-20-9	8 - 10
Non-hazardous and other components below reportable levels		20 - 40

## 4. First Aid Measures

First aid procedures	
Eye contact	Remove contact lenses, if present and easy to do. Continue rinsing.
Skin contact	Immediately take off all contaminated clothing. Wash off with warm water and soap.
Inhalation	If symptoms develop move victim to fresh air. Call a physician if symptoms develop or persist.
Ingestion	If material is ingested, immediately contact a poison control center. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration.

## 5. Fire Fighting Measures

Flammable properties	Vapor or gas may spread to distant ignition sources and flash back. Runoff to sewer may cause fire or explosion hazard.
Extinguishing media	
Suitable extinguishing media	Water fog. Alcohol foam. Dry chemical. Carbon dioxide (CO2).
Protection of firefighters	
Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Protective equipment and precautions for firefighters	In the event of fire and/or explosion do not breathe fumes. Containers should be cooled with water to prevent vapor pressure build up.

## 6. Accidental Release Measures

Methods for containment	Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Should not be released into the environment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.  Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly.

## 7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. Use only in area provided with appropriate exhaust ventilation. Do not use if spray button is missing or defective.
Storage	Level 3 Aerosol. Contents under pressure. Do not puncture, incinerate or crush. The pressure in sealed containers can increase under the influence of heat. Keep away from heat, sparks, and flame. Avoid exposure to long periods of sunlight. Store in cool place. Keep out of the reach of children. Do not store, incinerate, or heat this material above 120 degrees Fahrenheit.

## 8. Exposure Controls / Personal Protection

### Exposure limits

#### ACGIH

Components	CAS #	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established
Acetone	67-64-1	500 ppm	750 ppm	Not established
Methyl Acetate	79-20-9	200 ppm	250 ppm	Not established

#### OSHA

Components	CAS #	TWA	STEL	Ceiling
Propane	74-98-6	1000 ppm	Not established	Not established
Acetone	67-64-1	1000 ppm	Not established	Not established
Methyl Acetate	79-20-9	200 ppm	Not established	Not established

### Personal protective equipment

Eye / face protection	Wear chemical goggles.
Skin protection	Wear appropriate chemical resistant clothing. Protective gloves.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

## 9. Physical & Chemical Properties

Appearance	Compressed liquefied gas.
Boiling point	320 °F (160 °C) estimated

Color	Colorless.
Flammability (HOC)	34.7504 kJ/g estimated
Flash back	No
Flash point	-156 °F (-104.4 °C) Propellant
Form	Aerosol.
Odor	solvent fruity
pH	Not Applicable
Physical state	Liquid.
Pressure	40 - 60 psig @ 70F
Solubility	Negligible
Specific gravity	0.7474 estimated

## 10. Chemical Stability & Reactivity Information

Conditions to avoid Heat, flames and sparks.

## 11. Toxicological Information

Acute effects Acute LC50: 24 mg/l/4h estimated, Rat, Inhalation

### Component analysis - LD50

#### Toxicology Data - Selected LD50s and LC50s

Acetone	67-64-1	Oral LD50 Rat 5800 mg/kg
Methyl Acetate	79-20-9	Inhalation LC50 Rat 16000 ppm 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rat >2000 mg/kg; Dermal LD50 Rabbit >5000 mg/kg
Odorless Mineral Spirits	64742-48-9	Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >3160 mg/kg
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	Inhalation LC50 Rat >5.2 mg/L 4 h; Oral LD50 Rat >5000 mg/kg; Dermal LD50 Rabbit >2000 mg/kg

Sensitization Not expected to be hazardous by OSHA criteria.

Teratogenicity Not expected to be hazardous by OSHA criteria.

## 12. Ecological Information

Ecotoxicity LC50 199 mg/L, Fish, 96.00 Hours,  
EC50 9914 mg/L, Daphnia, 48.00 Hours,  
IC50 1294 mg/L, Algae, 72.00 Hours,  
Components of this product have been identified as having potential environmental concerns.

## 13. Disposal Considerations

Waste codes D001: Waste Flammable material with a flash point <140 F  
D018: Waste Benzene

Disposal Instructions Contents under pressure. Dispose of this material and its container at hazardous or special waste collection point. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. If discarded, this product is considered a RCRA Ignitable waste, D001.

## 14. Transport Information

### Department of Transportation (DOT) Requirements

#### Basic shipping requirements:

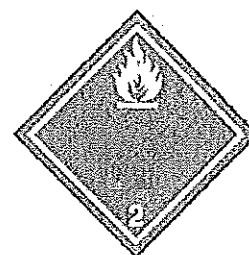
Proper shipping name	Consumer commodity
Hazard class	ORM-D
Subsidiary hazard class	None

#### Additional information:

Packaging exceptions	156, 306
Packaging non bulk	156, 306
Packaging bulk	None

**IMDG****Basic shipping requirements:**

Proper shipping name      AEROSOLS  
 Hazard class                2.1  
 UN number                  1950  
 Additional information:  
 Packaging exceptions      LTD QTY  
 Item                          5F  
 Labels required            None  
 Transport Category        2

**IATA****Basic shipping requirements:**

Proper shipping name      Aerosols, flammable  
 Hazard class                2.1  
 UN number                  1950  
 Additional information:  
 Packaging exceptions      LTD QTY  
 Labels required            2.1



<b>15. Regulatory Information</b>
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**US federal regulations**      This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Occupational Safety and Health Administration (OSHA)**

29 CFR 1910.1200 hazardous chemical      Yes

**CERCLA (Superfund) reportable quantity**

Acetone: 5000.0000

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

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

Section 302 extremely hazardous substance      No

Section 311 hazardous chemical      Yes

**Inventory status**

Country(s) or region	Inventory name	On inventory (yes/no)*
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	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)

**State regulations****U.S. - Pennsylvania - RTK (Right to Know) List**

Acetone	67-64-1	Environmental hazard
Methyl Acetate	79-20-9	Present
Odorless Mineral Spirits	64742-48-9	Present
Propane	74-98-6	Present
Synthetic Isoparaffinic Hydrocarbon	64742-47-8	Present

## 16. Other Information

Further information	HMIS® is a registered trade and service mark of the NPCA.
HMIS® ratings	Health: 1* Flammability: 4 Physical hazard: 0 Personal protection:
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.
MSDS sections updated	Product and Company Identification: Product and Company Identification First Aid Measures: Eye contact Physical & Chemical Properties: Physical & Chemical Properties Chemical Stability & Reactivity Information: Hazardous decomposition products Transport Information: Agency Name and Packaging Type/Transport Mode Selection
Prepared by	Regulatory Compliance