



0 = Minimum 1 = Light 2 = Moderate 3 = Serious 4 = Extreme

Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|--------------------------------|---|
| Product Name | BOLT-OUT (Aerosol) |
| Product Identifier | 53-D 892 (400 ml) |
| MSDS No. | L-08E |
| Product Family | Lubricant |
| Manufacturer / Supplier | J. WALTER CO. LTD, 5977 Trans-Canada Highway, Pointe-Claire, Qc, H9R 1C1, 1-888-592-5837, www.walter.com |
| Emergency Contact | CANUTEC (Canadian Transport Emergency Centre), (613) 996-6666, 24 hours / 7 days |
| Information Use | Penetrating lubricant |

2. HAZARDS IDENTIFICATION

WHMIS Classification



Class A

A- Compressed Gas;



Class B1

B1 - Flammable Gas;



Class D2B

D2B - Toxic

Potential Health Effects

Route of Exposure

Inhalation; skin contact; skin absorption; eye contact; ingestion.

Inhalation

Drowsiness or mental confusion may occur.

Skin Contact

There may be irritation and redness at the site of contact.

Eye Contact

There may be irritation and redness.

Ingestion

Headaches and general malaise may result.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS Registry No. | Concentration % | Other Identifiers |
|--------------------|------------------|-----------------|-------------------|
| Propane | 74-98-6 | 1 - 10 | N/Av |
| Carbon dioxide gas | 124-38-9 | 1 - 10 | N/Av |
| Kerosene | 8008-20-6 | > 90 | N/Av |

4. FIRST AID MEASURES

First Aid Procedures

Inhalation

Move victim to fresh air. Call a Poison Control Centre or doctor if victim feels unwell. If unconscious, remove victim from exposure ensuring one's safety whilst doing so, check for breathing and apply artificial respiration if necessary.

Skin Contact

There may be mild irritation at the site of contact. Immediately flush with lukewarm, gently flowing water for 15-20 minutes.

| | |
|--------------------|---|
| Eye Contact | Immediately and briefly flush with lukewarm, gently flowing water for 15-20 minutes, while holding eyelid(s) open. Transfer to hospital for specialist examination. |
| Ingestion | Immediately call a Poison Control Centre or doctor. Treatment is urgently required. Transport to a hospital. |

5. FIRE FIGHTING MEASURES

| | |
|--|---|
| Flammable Properties | Extremely Flammable. Forms explosive air-vapour mixture. Can ignite if heated. |
| Suitable Extinguishing Media | Carbon dioxide, dry chemical powder. |
| Specific Hazards Arising from the Chemical | Forms explosive air-vapour mixture. Extremely flammable. |
| Protective Equipment and Precautions for Firefighters | Wear self-contained respirator. Wear protective clothing to prevent contact with skin and eyes. |

6. ACCIDENTAL RELEASE MEASURES

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|---|---|
| Personal Precautions | Use the Personal Protective Equipment recommended in Section 8 of this MSDS. Eliminate all ignition sources. Use grounded, explosion-proof equipment. |
| Environmental Precautions | Do not allow into any sewer, on the ground or into any waterway. |
| Methods for Containment and Clean-up | Contain spill using noncombustible material such as vermiculite, earth or sand. |

7. HANDLING AND STORAGE

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|-----------------|--|
| Handling | Ensure there is sufficient ventilation in the area. Do not handle in a confined space. Smoking is forbidden. |
| Storage | Store in an area that is: out of direct sunlight and away from heat and ignition sources. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical Name | CAS Registry No. | TWA (8hrs) |
|--------------------|------------------|------------|
| Propane | 74-98-6 | 1000 ppm |
| Carbon dioxide gas | 124-38-9 | 5000 ppm |
| Kerosene | 8008-20-6 | 100 ppm |

| | |
|--|---|
| Engineering Controls | Ensure there is sufficient ventilation in the area. |
| Personal Protective Equipment (PPE) | |
| Eye/Face Protection | Wear chemical safety goggles. |
| Skin Protection | Solvent resistant protective clothing. Nitrile Gloves, permeation time > 8 hours. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|--------------------------|
| Physical State | Aerosol |
| Appearance | Dark grey |
| Odour | Characteristic |
| Solubility in Water | Insoluble |
| Flash Point | -60 °C (-76 °F) |
| Evaporation Rate | Slow |
| Vapour Pressure | 4000 hPa |
| Density | 0,791 g/ml @20°C (68 °F) |
| Lower Flammable/Explosive Limit | 1,4% |

| | |
|--|-----------------|
| Upper Flammable/Explosive Limit | 32% |
| Auto-ignition Temperature | 510 °C (950 °F) |
| VOC (g/L) | 775 g/L |

10. STABILITY AND REACTIVITY

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|---|---|
| Chemical Stability | Normally stable. |
| Conditions to Avoid | Open flames, sparks, static discharge, heat and other ignition sources. |
| Incompatible Materials | Oxidizing agents (e.g. peroxides). |
| Hazardous Decomposition Products | In combustion, emits toxic fumes of carbon dioxide / carbon monoxide. |

11. TOXICOLOGICAL INFORMATION

LC50/LD50 Values

| Chemical Name | CAS Number | LD50 Rat | LC50 Rat |
|----------------|------------|----------|-------------|
| Propane | 74-98-6 | N/Av | >20% (4hrs) |
| Carbon dioxide | 124-38-9 | N/Av | N/Av |
| Kerosene | 8008-20-6 | 5mg /kg | N/Av |

| | |
|------------------------------------|---|
| Skin Irritation / Corrosion | Human experience shows mild irritation |
| Eye Irritation / Corrosion | Human experience and animal tests show mild irritation. |

12. ECOLOGICAL INFORMATION

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|--------------------------------------|--|
| Persistence and Degradability | Does not biodegrade readily. |
| Mobility | Highly volatile. Vapour is heavier than air. |

13. DISPOSAL CONSIDERATIONS

Eliminate while respecting municipal, provincial and federal regulations.

14. TRANSPORT INFORMATION

Shipping Information

| Regulation | UN No. | Shipping Name | Class | Packing Group |
|--------------|--------|--------------------|-------|---------------|
| Canadian TDG | 1950 | Bolt-Out (Aerosol) | 2,1 | N/Av |

Other Transport Information

| | |
|-------------------------------------|----------------|
| Special Shipping Information | Not applicable |
|-------------------------------------|----------------|

15. REGULATORY INFORMATION

Canada

| | |
|---|--|
| Domestic Substances List (DSL) | All ingredients are listed on the DSL. |
| CEPA - National Pollutant Release Inventory (NPRI) | Not specifically listed. |

USA

| | |
|---|---|
| US OSHA Regulatory Status | This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). |
| Toxic Substances Control Act (TSCA) Section 8(b) | All ingredients are listed on the TSCA Inventory. |

Additional USA Regulatory Lists

CERCLA: None

SARA Title III - Section 302: None

SARA Title III - Section 311/312: None

SARA Title III - Section 313: None

New Jersey Right To Know: None

Section 112: Hazardous Air Pollutants (HAPS): None

16. OTHER INFORMATION

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| MSDS Prepared By | Project Manager, Environmental Solutions and MRO |
| Phone No. | 1-888-592-5837 |
| Date of Preparation | February 7, 2012 |