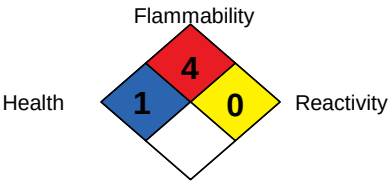
WALTER Surface Technologies

Material Safety Data Sheet

NFPA Hazard Rating



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

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	Walter Surface Technologies Inc., 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 B5
B5 - Flammable Aerosol;

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

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

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

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

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

MSDS Prepared By	Project Manager, Environmental Solutions and MRO
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