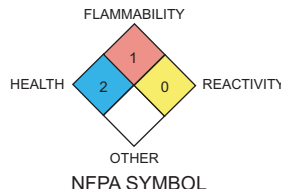


Health	2
Flammability	1
Reactivity	0
PPE	H

MATERIAL SAFETY DATA SHEET



CLEAN-UP™ BULK

HMIS SYMBOL

SECTION 1 - PRODUCT NAME AND COMPANY IDENTIFICATION

Product Name: **CLEAN-UP™ Bulk**
 Chemical Family: Halogen
 Use: Industrial Degreaser and Cleaner.
 Manufacturer/Supplier: Jet-Lube of Canada Ltd.
 3820 - 97 Street
 Edmonton, Alberta
 Canada T6E 5S8
 Phone: (780) 463-7441 Fax: (780) 463-7454
 CCOHS: 1-800-263-8466

Emergency:

CANUTEC Phone: (613) 996-6666 Cellular: *666 TTY/TDD: 1-888-675-6863

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	Halocarbon
CAS No	79-01-6
Wt. %	100
OSHA PEL	270 mg/m ³ on TWA
ACGIH TLV	269 mg/m ³ on TWA
LC50	8000 ppm (4-hr. exposure, rat)
LD50	7200 mg/L (oral, rat)
Other	N/A

SECTION 3 - HAZARDS IDENTIFICATION

Route of Entry: Eyes, ingestion, inhalation, skin
 Eyes: May cause severe eye irritation.
 Inhalation: May cause irritation to the nose and throat and central nervous system depression.
 Ingestion: May cause a burning sensation in the mouth and throat followed by abdominal pain and signs and symptoms of central nervous system depression, as described for inhalation exposure above.
 Skin: May cause severe skin irritation. Prolonged contact with the liquid can cause reddening of the skin, irritation and blister formation.

SECTION 4 - FIRST AID MEASURES

Eyes: Quickly blot or brush away excess chemical. Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the chemical is removed.
 Inhalation: Remove to fresh air. If respiratory difficulty persists, seek medical help.
 Ingestion: Do not induce vomiting. Have victim drink 240 to 300 ml of water to dilute material in stomach. Obtain medical attention immediately.
 Skin: Quickly and gently blot away excess chemical. Wash gently and thoroughly with water and non-abrasive soap for 20 minutes or until the chemical is removed.

SECTION 5 - FIRE FIGHTING MEASURES

Flammability: Non-Flammable.
 Extinguishing Media: Use dry chemicals, foam, water fog or CO₂.
 Flash Point (COC): Not Determined
 Explosive Properties: LEL - 7.8% at 100°C UEL - 52.0% at 100°C
 Autoignition Temperature: 420°C (788°F)
 Hazardous Combustion Products: Hydrogen chloride gas, phosgene and other toxic and irritating compounds, such as chlorine and dichloroacetyl chloride.
 Protective Equipment: Self-contained breathing apparatus.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Spillage: Ensure clean up is conducted by trained personnel only. Ventilate area. Remove sources of heat or flame to prevent formation of hazardous decomposition products. Avoid disposal into drains.

SECTION 7 - HANDLING AND STORAGE

Handling Procedures: Extremely important that engineering controls are operating and the PPE requirements and personal hygiene measures are being followed.
 Storage Requirements: Store in a cool, dry, well-ventilated area, out of direct sunlight and away from heat and ignition sources.
 Engineering Controls: Includes mechanical ventilation, process or personnel inclusion, control of process conditions and process modification.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection Equipment (PPE's)

Respiratory Protection: Breathing apparatus in confined space areas.
 Hand Protection: Protective gloves for hypersensitive persons.
 Eye Protection: Protective glasses if applied to moving parts.
 Body Protection: Protective overalls.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
 Odour Threshold: 82 - 110 ppm
 Vapor Pressure: 8 kPa at 20°C
 Boiling Point: 87°C (189°F)
 pH: Not Available
 Density: 1.50 kg/L
 Evaporation Rate (Butyl Acetate = 1.0): >4.9
 Odour: Ethereal
 Specific Gravity: 1.50
 Vapor Density: 4.53 (air = 1)
 Water Solubility: Slightly Soluble
 Melting Point: -73°C (-100°F)
 % Volatile: 100

SECTION 10 - STABILITY AND REACTIVITY

Stability: Moderately stable.
 Photoreactive Agents: None
 Conditions to Avoid: Powerful sources of ignition, extreme temperatures.
 Materials to Avoid: Alkali metals, strong bases and strong oxidizing agents.

SECTION 11 - TOXICOLOGICAL INFORMATION

Exposure Limit of Material: See Section 2
 LC50 of Ingredients, Species and Routes: See Section 2
 LD50 of Ingredients, Species and Routes: See Section 2
 Teratogenicity, Embryotoxicity and/or Fetotoxicity: Not Available
 Mutagenicity: Not Available
 Effects of Long-Term (Chronic) Exposure: Some studies have shown liver effects occasionally, but more commonly at near lethal concentrations.

Carcinogen NTP: N/A IARC: Yes OSHA: N/A

SECTION 12 - ECOLOGICAL INFORMATION

For specific requirements, contact the relevant regulatory authorities in the jurisdiction where the MSDS is intended to be used.

Behavior: Currently no data.
 Environmental Fate: Highly volatile, should evaporate to atmosphere. More dense than water.

SECTION 13 - DISPOSAL CONSIDERATIONS

Consult federal, provincial and local regulations for disposal of halogen products.

SECTION 14 - TRANSPORT INFORMATION

TDG (Canada): The product is listed under the Canadian Transportation of Dangerous Goods regulations.

Shipping Name: TRICHLOROETHYLENE
 UN No.: UN 1710
 Packing Group: III
 Classification: Class 6.1, Toxic Substances
 Labelling Requirements: Limited Quantities label for containment less than LQI of 5 L net contents per containment. Class 6.1 label if >5 L net contents per containment or large containment.
 Placard Requirements: Limited Quantities - None Required
 Large Containment - Class 6.1

SECTION 15 - REGULATORY INFORMATION

WHMIS: Classes D1B, D2A, D2B
 DSL: All components listed.
 CPR Compliance: This product has been classified in accordance with the hazard criteria of the Controlled Product Regulations. The MSDS contains all of the information required by these regulations.

SECTION 16 - OTHER INFORMATION

CPR - Controlled Product Regulations
 DSL - Domestic Substance List
 LQI - Limited Quantity Index

As of issue date, the information contained herein is accurate and reliable to the best of Jet-Lube of Canada Ltd.'s knowledge. Jet-Lube of Canada Ltd. does not warrant or guarantee its accuracy or reliability and shall not be liable for any loss or damage arising out of the use thereof. It is the users' responsibility to satisfy themselves that the information offered for their consideration is suitable for their particular use.

Prepared By: Jet-Lube of Canada Ltd. - Laboratory
 Last Date of Revision: August 7, 2007