

BRAKE CLEANER

Brake Cleaner is a fast acting and quick drying non-chlorinated, economical solvent degreaser specifically designed for removing oil, dirt, and brake dust from a variety of surfaces. For use in all vehicle maintenance and brake repair shops.



DIRECTIONS

- 1. Fill sprayer with Brake Cleaner and pressurize according according to manufacturer's directions.
- 2. Spray onto brake rotors and calipers, wheel cylinders or drums to remove brake dust and grime.
- 3. Product should be captured in a container and disposed of properly.
- 4. Allow parts to air dry prior to reassembly.

NOTE:

Brake Cleaner is **EXTRMELY FLAMMABLE.** Do not smoke, weld or introduce any other type of ignition (sparks, elec. Motor, etc.) while using.

Respiratory protection should be worn when spraying to avoid breathing brake dust and product vapors.

NOTE: See reverse side for MSDS information and General Cautions for Use

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION	Eye Protection: Approved safety goggles or glasses. Footwear: Chemical
Identity (As Used on Label and List): Brake Cleaner	resistant Other Protective Clothing or Equipment: Not required
Product Class: Solvent based cleaner Emergency Telephone Number: 800-535-5053 (INFOTRAC)	
Telephone Number for Information: 763-509-7937	Work/Hygienic Practices: Do not contaminate food or beverages with cleaning
Distributor's Name and Address:	chemicals. SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS
Ver-tech Labs	Boiling Point: Approximately148 - 180°F pH: N. Ap.
6801 Bleck Drive Rockford MN 55373	Specific Gravity (H20) = 1: .6965
SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS	Vapor Density (Air = 1): > 1 Odor Threshold: N. Av.
Hazardous Components (Specific Chemical Identity):	Evaporation Rate (Butyl Acetate = 1): N. Av. Oil/Water Distribution Solubility in Water: N. Ap Coefficient: N. Av.
Chemical Common Name(s) %	Vapor Pressure (MM HG): N. Av.
A N-Hexane CAS #110-54-3	Melting Point: N. Ap.
B 2-propannol	SECTION X - STABILITY AND REACTIVITY
CAS #67-63-0	Stability: Unstable: Stable: X
C Methanol CAS #1336-21-6	Conditions to Avoid: N. Ap.
	Incompatibility (materials to avoid): N. Av.
SECTION III - HAZARDS IDENTIFICATION	Hazardous Decomposition or By-products: N. Av. Hazardous Polymerization: May occur: Will not occur: X
Emergency Overview	Conditions to Avoid: N. Ap.
Appearance and Odor: Clear liquid, solvent odor.	SECTION XI - TOXICOLOGICAL INFORMATION
Primary Hazards: Flammable Posion	Chemical OSHA PEL ACGIH TLV Recom. LD50 LC50
Potential Health Hazards	A 50 ppm (skin) 50 ppm (skin) 50 ppm 1.48 g/kg N. Av.
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X Eve: May cause irritation, blindness.	(rat, oral)
Skin: May cause irritation, on can be absorbed through skin	B 400 ppm 400 ppm N. Ap. 5,840 mg/kg 12,000 ppm (rat, oral) (rat,8H)
Ingestion: Harmful if swallowed poison.	C 200 ppm 200 ppm N. Av. 350 mg/kg 4230 ppm
Inhalation: Overexposure may cause central nervous system effects including drowsiness, headaches, nausea, dizziness death and blindness.	(rat, oral) (mice)
Signs and Symptoms of Exposure: Irritation on direct contact.	Teratogen, Mutagen, Reproductive Toxin Status: No known relevance to humans.
Carcinogenicity: NTP? No IARC Monographs? No	Toxicologically Synergistic Products: N. Av.
OSHA Regulated? No	
Target Organ (s): Liver, kidneys, lymphoid system, skin, blood, eyes and respiratory system.	SECTION XII - ECOLOGICAL INFORMATION Ecotoxicological Information: N. Av.
Medical Conditions Generally Aggravated by Exposure: N. Av.	Chemical Fate Information: N. Av.
Health Hazards, Chronic: Overexposure may cause damage to one or more of the	SECTION XIII - DISPOSAL CONSIDERATIONS
target organs listed above.	Waste Disposal Method:
SECTION IV - FIRST AID MEASURES	Dispose of spilled material in accordance with local, state and federal regulations. Waste
Emergency and First Aid Procedures:	from normal cleaning procedures may be sewered, depending on the materials and/or
If Swallowed: Do not induce vomiting. Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. Eye Contact:	contaminates being cleaned as well as state, federal and local sewer commission regulations.
Flush eyes with running water for at least 15 minutes. Obtain medical attention. Skin	RCRA Hazard Class: D004, characteristic Flammable
Contact: Flush thoroughly with cool water. Remove and wash contaminated clothing	SECTION XIV - TRANSPORT INFORMATION
before reuse. If irritation persists seek medical attention. Sources Used: Raw material data, general toxicology from the trade for similar	Shipping Classification: Flammable liquid, n.o.s. (Hexane, Isopropanol), Class 3
products.	UN Number: 1993
SECTION V - FIRE FIGHTING MEASURES	Packing Group: II
Flammability: -10 deg F Auto ignition Temperature: N. Av	SECTION XV - PREPARATION DATA
Flash Point (method used): (TCC)	Prepared By: Health and Safety Department
Flammable Limits: N. Av. LEL >1.2 UEL	Telephone Number: 763-509-7937 Date: 10-11-2007
Extinguishing Media N. Av. Water? X Foam? X Water Fog? X	
Alcohol Foam? X CO ₂ ? X Dry Chemical? X	SECTION XVI - REGULATORY INFORMATION US Federal Regulations
Vaporizing Liquid? X Other?	TSCA Status: All ingredients listed.
Special Fire Fighting Procedures: Use self contained breathing apparatus . Unusual Fire and Explosion Hazards: Vapors from this product may settle in low	CERCLA Reportable Quality: N. Av.
places.	SARA Title III
Sensitivity to Mechanical Impact: None	Section 302 Extremely Hazardous Chemicals: None Section 311/312 Hazard Category: Immediate health, chronic health.
Sensitivity to Static Discharge: None	Section 313 Toxic Chemicals: N-Hexane, Methyl Alcohol
SECTION VI - ACCIDENTAL RELEASE MEASURES	SECTION XVII - OTHER INFORMATION
Steps to be Taken in Case Material is Released or Spilled:	None
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area	
with water.	N. Ap Not Applicable; N.Av Not Available
SECTION VII - HANDLING AND STORAGE	
Precautions to be Taken in Handling and Storing:	NFPA SYSTEM
Normal care in handling and storage.	<u>_3</u> A. Health Hazard <u>_3</u> A. Fire Hazard <u>_0</u> A. Reactivity Hazard
Other Precautions: Keep out of reach of children. Keep from freezing.	THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED ACCURATE, HOWEVER NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM
SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION	THE USE THEREOF. MINUTEMAN INTERNATIONAL, INC. ASSUMES NO RESPONSIBILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE TO VENDEES, USERS OR THIRD PARTIES CAUSED BY THE MATERIAL. SUCH VENDEES OR
Respiratory Protection (Specify Types): Appropriate NIOSH/MSHA approved	USERS ASSUME ALL RISKS ASSOCIATED WITH THE USE OF THE MATERIAL.
respirator Ventilation: Local Exhaust: At points of use Special: Not required	
Mechanical (General): Ventilate to keep vapor levels below PEL	
and TLV, listed in Section XI. Other: Not	
required	
Protective Gloves: Natural rubber or synthetic.	