



MATERIAL SAFETY DATA SHEET

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BRAKE & PARTS CLEANER PART NO. 49664

SECTION I – PRODUCT IDENTITY

Product Name : Brake Clean Aerosol

SECTION II – HAZARDOUS INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS %</u>	<u>OSHA</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>VAPOR PRESSURE</u> <u>mm Hg @ TEMP</u>		<u>%</u>
*Perchloroethylene	127-18-4	100PPM	25PPM	13	68	94.0
Mineral Spirits, Stoddard						
Solvent, Petro. Distil.	8052-41-3	100PPM	100PPM	2.4	68	3
Carbon Dioxide	124-38-9	10000PPM	5000PPM	38650	60	3

** Indicates Toxic Chemical(s) Subject to the Reporting Requirements of Section 313 of Title III and of 40 CFR 372.*

SECTION III – PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point : 250⁰ F - 310⁰ F
Vapor Density : Heavier than air.
Solubility in Water : Nil
Specific Gravity (H₂O=1) : 1.53
Evaporation Rate : Slower than ether.
Appearance and Odor : Colorless liquid. Mildly sweet.

SECTION IV – FIRE AND EXPLOSION HAZARD DATA

Flash Point : 105⁰F
Method Used : TCC
Flammable Limits in Air : LEL: .7 UEL: 6
Extinguishing Media : Foam, alcohol foam, CO₂, dry chemical, water fog.
Special Fire fighting Procedures : Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat. If water is used, fog nozzles are preferred. Wear goggles and self contained breathing apparatus.

Unusual Fire and Explosion Hazards : Keep containers from heat and open flame. Closed containers may explode when exposed to extreme heat. Toxic gases and vapors (such as hydrogen chloride, phosgene, and carbon monoxide) may be released in a fire. Symptoms may not be readily apparent. Obtain medical attention.

SECTION V – REACTIVITY DATA

Stability : Stable
Conditions to Avoid : Application to hot surfaces.
Incompatibility (Materials to Avoid) : Unknown.
Hazardous Decomposition Products : May produce fumes when heated to decomposition. Fumes may contain carbon monoxide, chlorine and hydrogen chloride.
Hazardous Polymerization : Will not occur.

SECTION VI – HEALTH HAZARD DATA

HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Inhalation : Respiratory irritation, headache, nausea, fatigue, drowsiness, impaired co-ordination, cardiac sensitization.
Skin Contact : Contact may dry the skin. Prolonged contact may cause irritation.
Eye Contact : Liquid or vapor can irritate. Prolonged contact may lead to corneal damage.
Skin Absorption : Not easily absorbed. Solvent action can dry and defat the skin causing the skin to crack, leading to dermatitis.
Ingestion : Not a likely route of exposure. If swallowed, Do not induce vomiting. Seek immediate medical advice and/or attention.

HEALTH HAZARDS (ACUTE & CHRONIC):

Acute : Eye irritant. Skin irritant. Narcotic in high concentrations.
Chronic : Liver and kidney disease. Skin irritation and Dermatitis. Chronic overexposure have caused liver and kidney toxic effects in experimental animals. Can cause central nervous system effects, irregular heartbeat and possible death if too much is breathed. Deliberate concentration and inhalation of contents may be harmful or fatal. Can elevate carboxyhemoglobin levels following exposure.

CARCINOGENICITY:

NTP Carcinogen : Yes
IARC Monographs : Yes
OSHA Regulated : Yes

WARNING! This Product Contains Chemicals Known to the State of California to Cause Cancer.

Medical Conditions Generally Aggravated by

Exposure : Acute and chronic liver and kidney disease, anemia, coronary disease or rhythm disorders of the heart.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation : Remove to fresh air. Administer oxygen if needed. Apply artificial respiration if breathing has stopped. Get medical attention. Do not administer adrenalin to an affected person.

Ingestion : Do not induce vomiting. Call a doctor. If conditions remain, get medical attention. Never give anything by mouth to an unconscious person.

Skin : Wipe off with towel. Wash with soap and water. Get medical attention if irritation persists.

Eyes : Wash immediately with large volumes of fresh water for at least 15 minutes. Get medical attention.

SECTION VII – PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be Taken in Case Material is Released

or Spilled : Avoid breathing vapors. Ventilate area. Dike area to contain spill. Clean up area with absorbent material and place in closed containers for disposal.

Waste Disposal Method

: Dispose of in accordance with local, state and federal regulations. Before attempting clean up, refer to other sections of this MSDS for hazard caution information.

Precautions to be taken in Handling

and Storage : Store in a cool, dry, well ventilated area. Avoid contact with hot metal surfaces. Keep away from excessive heat or open flame. Contents under pressure. Do not puncture or incinerate container or store above 120⁰ F.

Other Precautions

: The storage of non-flammable products with non-flammable or flammable pressurizing agent, in cartons, is the same as for ordinary canned goods in cartons.

SECTION VIII – CONTROL MEASURES

Respiratory Protection	: In restricted areas, use approved chemical/ Mechanical filters designed to remove a combi- nation of particles and vapor. In confined areas, Use approved airline type respirator or hood. Self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.
Ventilation	: Sufficient to prevent inhalation of solvent vapors. General dilution and/or local exhaust ventilation in volume or pattern to keep PEL/ TLV of most hazardous ingredient below acceptable limit and LEL below stated limit.
Protective Gloves	: Solvent resistant required for prolonged for repeated contact.
Eye Protection	: Safety glasses with splash guards or full face shield.
Other Protective Clothing or Equipment	: Solvent resistant apron.
Work/Hygienic Practices	: Eye washes and safety showers in the work- place are recommended.

SECTION IX – HAZARD COMMUNICATION CODES

HMIS CODES:

Health	: 1
Flammability	: 2
Reactivity	: 0

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