

MANUFACTURER  
Castle Products, Inc.  
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## MATERIAL SAFETY DATA SHEET

Hazard: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.  
Protection: A-Goggles, B-Goggles & gloves,  
C-Goggles, gloves, & protective wear.  
Other: NA-Not Applicable, ND-Not Determined,  
NE-Not Established.

HAZARD RATING  
Health 2  
Fire 1  
Reactivity 0  
Protection B

### SECTION I DESCRIPTION

TRADE NAME: **Castle® Formula B™**

PRODUCT TYPE: Brake Parts Cleaner

### SECTION II HAZARDOUS INGREDIENTS

INGREDIENT	CAS #	PEL	TLV	STEL	%
Trichloroethylene	79-01-6	50 ppm	NE	NE	60-100 %
Isopropyl Alcohol	67-63-0	NE	NE	NE	1-5 %
Carbon Dioxide	124-38-9	500 ppm	NE	NE	1-5 %

### SECTION III PHYSICAL DATA

BOILING POINT:	82.22°C	SPECIFIC GRAVITY (H <sub>2</sub> O=1):	1.4
VAPOR PRESSURE:	57.25mmHg@68°F	PERCENT VOLATILE BY VOL %:	NA
VAPOR DENSITY (air=1):	4.45	EVAPORATION RATE (Butyl Acetate=1):	2.5
SOLUBILITY IN WATER:	Insoluble	APPEARANCE & ODOR:	Clear / Ether

### SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (method used): ND LOWER EXPLOSIVE LIMIT: ND UPPER EXPLOSIVE LIMIT: ND  
EXTINGUISHING MEDIA: Non-flammable aerosol. Cool containing vessel with water spray in order to prevent pressure buildup or explosion.  
UNUSUAL FIRE & EXPLOSION HAZARDS: Do not expose aerosol containers to open flames, high temperatures, sparks or ignition sources.  
SPECIAL FIRE FIGHTING PROCEDURES: Self-contained respiratory protection should be provided for firefighters.

### SECTION V HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: Eye contact, skin contact, inhalation, and ingestion.  
EFFECTS OF OVEREXPOSURE: • Eyes: Irritation. • Skin: Irritation, defatting, drying, and cracking. • Inhalation: Irritation. Long-term exposure may cause kidney damage, cardiac arrhythmia and central nervous system damage. • Ingestion: May cause burning sensation.  
EMERGENCY & FIRST AID PROCEDURES: • Eyes: Flush with water and get medical attention if irritation persists. • Skin: Wash with soap and water. Remove affected clothing and wash before reuse. • Inhalation: Move person to fresh air. • Ingestion: Immediately call physician! If conscious, rinse mouth out with water and give 1 to 2 glasses of milk or water.

### SECTION VI REACTIVITY DATA

STABILITY: Stable under normal conditions.  
INCOMPATIBILITY (material to avoid): Avoid contact with strong oxidizing agents, strong reducing agents, strong acids and strong alkalis. The materials of this product may react violently with metals such as sodium, potassium, and barium.  
HAZARDOUS POLYMERIZATION: Will not occur under normal conditions.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon oxides (CO, CO<sub>2</sub>), hydrogen chloride, phosgene, and other irritating gases.

### SECTION VII SPILL OR LEAK PROCEDURES

IF RELEASED OR SPILLED: Ventilate area and eliminate all sources of ignition. Absorb with an inert dry material and place in an appropriate waste disposal container. Recommend chemical resistant gloves and safety glasses to be worn to clean up spills.  
WASTE DISPOSAL METHOD: Recycle to process, if possible. Consult your local or regional authorities. Do not dispose in sewers. When container is empty, press button to release all pressure, and then dispose of in garbage can or recycle bin.

### SECTION VIII SPECIAL PROTECTION INFORMATION

VENTILATION: LOCAL XXXXXX MECHANICAL OTHER  
RESPIRATORY PROTECTION: Use MSHA/NIOSH approved respirator or equivalent when ventilation is inadequate.  
EYE PROTECTION: Safety goggles.  
PROTECTIVE GLOVES: Chemical resistant gloves.  
OTHER PROTECTIVE EQUIPMENT: Follow industrial clothing standards.

### SECTION IX SPECIAL PRECAUTIONS

HANDLING & STORING PRECAUTIONS: Keep in a cool, well-ventilated area. Keep container away from high temperatures, sparks, open flames, and all possible sources of ignition. Do not place in hot water or near radiator, stove, or other sources of heat. Do not puncture or incinerate container. Do not store at temperatures over 120°C or in direct sunlight.

PREPARED: 10/05/97

UPDATED: 12/31/06

PRODUCT #: C0816, C2001, C2424