

SAFETY DATA SHEET

SECTION 1 PRODUCT and COMPANY INFORMATION


TRADE NAME: **Castle® DOT 4 Brake Fluid**

PRODUCT TYPE: Brake Fluid

PRODUCT CODE: C27

MANUFACTURED FOR: Castle Products, Inc.
424 St. Paul Street
Rochester, NY 14605
800-876-0222 • FAX 585-325-4514
EMERGENCY 585-275-3232

SECTION 2 HAZARD IDENTIFICATION

EMERGENCY OVERVIEW:  WARNING: Irritant

POTENTIAL HEALTH EFFECTS: Eyes: Causes moderate to severe irritation. Corneal injury may occur.
Skin: May cause minor irritation with itching and possible slight local redness. Prolonged or repeated contact may cause defatting and drying.
Inhalation: Short-term harmful health effects are not expected from vapor.
Ingestion: Slightly toxic. May cause abdominal discomfort, nausea, and vomiting.

SECTION 3 COMPOSITION INFORMATION ON INGREDIENTS

INGREDIENTS	CAS #	PEL	TLV	STEL	%
Proprietary Alkyl Ester	Proprietary	NE	NE	NE	30-50%
Triethylene Glycol Monobutyl Ether	143-22-6	NE	NE	NE	10-40%
Triethylene Glycol Monomethyl Ether	112-35-6	NE	NE	NE	<=20%
Polyethylene Glycol Monomethyl Ether	9004-74-4	NE	NE	NE	<=20%
Polyethylene Glycol Monobutyl Ether	9004-77-7	NE	NE	NE	<=20%
Poly (Ethylene Oxide)	25322-68-3	NE	NE	NE	5-15%
Inhibitor Package	Mixture	NE	NE	NE	1-3%

SECTION 4 FIRST AID MEASURES

First Aid Procedures:

Eye contact: Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician if irritation persists.

Skin contact: For skin contact flush with large amounts of water. Call a physician if irritation persists.

Inhalation: Immediately remove from further exposure. Give supplemental oxygen, if breathing is difficult. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If swallowed, do NOT induce vomiting. Give a glass of water. Never give anything by mouth to an unconscious person.

Note to physician: If the product is ingested, treat the affected person symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

FLASH POINT: 275°F (135°C) LOWER EXPLOSIVE LIMIT: ND UPPER EXPLOSIVE LIMIT: ND

EXTINGUISHING MEDIA: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂). Appropriate for surrounding fire.

UNUSUAL FIRE & EXPLOSION HAZARDS: During a fire, oxides of nitrogen may be produced.

SPECIAL FIRE FIGHTING PROCEDURES: Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire density. As in any fire, wear pressure-demand self-contained breathing apparatus, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions: Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate spaces before entering.

Environmental precautions: Prevent further leakage or spillage if safe to do so.

Methods for containment: Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up: Eliminate ignition sources including sources of electrical, static or frictional sparks. Wear appropriate protective equipment and clothing during clean-up.

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for disposal.

Large Spills: Dike far ahead of liquid spill for later disposal. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

SECTION 7 HANDLING AND STORAGE

Handling: Avoid contact with skin and eyes. Wear suitable protective clothing. Wash hands after handling.
Storage: Keep from freezing. Keep containers tightly closed. Store in a cool, dry place.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits: None Established.

Engineering controls: Use local exhaust ventilation.

Personal protective equipment:

Gloves: Wear impervious gloves.

Eye/Face Protection: Wear safety glasses or goggles.

Skin Protection: Wear clothing suited to the task being performed.

Respiratory Protection: Not normally required if good ventilation is maintained.

SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

BOILING POINT:	392°F (200°C)	SPECIFIC GRAVITY (H ₂ O=1):	1.04
VAPOR PRESSURE:	<0.001 mmHg	PERCENT VOLATILE BY VOL %:	0.5
VAPOR DENSITY (air=1)	9	EVAPORATION RATE (Butyl Acetate=1):	<0.01
SOLUBILITY IN WATER:	<0/5%	APPEARANCE & ODOR:	Transparent Pale Yellow Liquid / Mild Ethereal
pH:	NA		

SECTION 10 STABILITY and REACTIVITY DATA

STABILITY: Stable.

INCOMPATIBILITY (material to avoid): Nitrites or other nitrosating agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon and Nitrogen.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Components Test Results: Significant data with possible relevance to humans: In studies in rats, triethylene glycol monomethyl ether produced testicular atrophy when administered in drinking water over a 90-day period at a dosage level of 4 g/kg/day. Contains one or more amines which may react with nitrites or other nitrosating agents to form nitrosamines, some of which have been shown to be carcinogenic in laboratory animals.

Carcinogenicity: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

SECTION 12 ECOLOGICAL INFORMATION

Component Test Results: None reported. Contain liquid to prevent contamination of soil, surface water, or ground water.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal instructions: Dispose according to all applicable Federal, State, and Local regulations.

SECTION 14 TRANSPORT INFORMATION

This product is considered Non-Hazardous in all modes of transportation. Therefore, this product does not require classification by DOT, IATA, ICAO or IMDG.

SECTION 15 REGULATORY INFORMATION

US federal regulations: All components are listed in the United States TSCA Regulations.

CERCLA (Superfund) reportable quantity: None

SARA (Superfund Amendments and Reauthorization Act of 1986):

313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Section 302 extremely hazardous substance: No

Section 311 hazardous chemical: No

Canada: This Product has been classified according to the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

SECTION 16 OTHER INFORMATION

Further information: (HMIS® is a registered trade and service mark of the NPCA.)

HMIS® ratings	Health: 2
	Flammability: 1
	Physical hazard: 0
NFPA ratings	Health: 2
	Flammability: 1
	Instability: 0

Other: NA-Not Applicable, ND-Not Determined, NE-Not Established.

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PREPARED: 4/30/10

UPDATED: 6/12/13

PRODUCT #: C27