

MATERIAL SAFETY DATA SHEET

Radiator Specialty Company

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POISON INFORMATION & EMERGENCY: 303-623-5716

MATERIAL SAFETY DATA SHEET

May be used to comply with OSHA's Hazard Communication Standard 29 CFR 1910.1200. Standard must be consulted for specific requirements.

US DEPARTMENT OF LABOR

Occupational Safety and Health Administration.
(Non-Mandatory Form) Form Approved OMB No. 1218-0072

SECTION I GENERAL INFORMATION

PRODUCT NAME DOT 3 STANDARD HEAVY DUTY BRAKE FLUID.
PART NUMBER M44- 12, -32, -34, -40, -49

NOTE: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

SECTION II HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

COMPONENT	WT%	C.A.S. NO.	TLV (ACGIH-----OSHA-----)
Polyglycol Ethers and Ployglycols	92-99	PROPRIETARY	NDA

NOTE: Our suppliers consider product composition to be proprietary. Reportable components have been reported to EPA chemical substance inventory as required by TSCA. This proprietary mixture contains chemicals that are subject to Reporting Requirements of Section 313 Sara Title III.

Comments:

Components not identified are non-hazardous according to 29 CFR 1910.1200

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Specific Gravity (H₂O=1)	1.039	pH	N/A
Solubility in Water	Soluble	Solubility in Solvent	Alcohols
Flash Point (Method) - F^o	280 ^o F. (PMCC)	% Volatiles By Wt.	Not known ..
Melting Point - F^o	Does not apply	Boiling Point - F^o	Greater than 410
Vapor Pressure (mmHg)	< 0.01 mmHg	Vapor Density (Air=1)	6
Evaporation Rate (Butyl Acetate=1)	< 0.01		
Appearance and Odor	Light, yellow to dark amber liquid with mild odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

EXTINGUISHING MEDIA:
Water Fog XX Foam XX CO₂ XX Dry Chemical XX

SPECIAL FIRE FIGHTING PROCEDURES. Wear self-contained, positive pressure breathing apparatus and protective clothes. Do not use a solid stream of water or foam into hot, burning pools: this may cause frothing and increase fire intensity.

UNUSUAL FIRE AND EXPLOSION HAZARDS During a fire, Oxides of nitrogen may be produced.

3654

M44

SECTION V REACTIVITY DATA

Stable	XX	Unstable	Corrosive	NO	Hazardous Polymerization?	Yes	No	XX
Incompatibilities Strong oxidizing agents, Strong alkalies, high temperatures in the presence of strong bases and acids								
Hazardous Decomposition or Byproducts Burning can produce the following products: carbon monoxide and /or carbon dioxide, oxides of nitrogen.								

SECTION VI HEALTH HAZARD INFORMATION

Recommended TLV of Product	Not established.								
EYE CONTACT	Causes severe irritant				SKIN CONTACT	Prolonged or repeated contact may cause local redness, defatting, and drying of the skin.			
INHALATION	Excessive inhalation of mist or fumes may cause irritation of mucous membranes.				INGESTION	HARMFUL IF SWALLOWED! May cause stomach cramps, nausea, diarrhea.			
OTHER	N/A								

SECTION VII EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT	Flush with water for at least 15 minutes thoroughly while lifting eyelids. Consult a physician immediately.							
SKIN CONTACT	Wash with soap and water thoroughly. Remove contaminated clothing and launder before re-use.							
INHALATION	Move to fresh air							
INGESTION	Drink two glasses of water. INDUCE VOMITING! This should be done only by a medical or experienced first-aid personnel. Consult a physician immediately.							

SECTION VIII SPECIAL PROTECTION INFORMATION

	CONSUMER	BULK HANDLING (Prolonged Exposure)
RESPIRATORY PROTECTION	N/A	Not required.
VENTILATION	Use with adequate ventilation.	General
EYE PROTECTION	N/A	Goggles.
PROTECTIVE CLOTHING	N/A	Not required.

SECTION IX PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURE	Observing health hazards described above, ventilate area, use absorbant, shovel or sweep up. Place waste in a DOT approved container and seal. Flush residual material with water.							
WASTE DISPOSAL METHOD	Dispose of in accordance with all applicable government laws and regulations.							
STORAGE AND HANDLING PRECAUTIONS	Store away from acids, ignition sources and oxidizing agents. See incompatibilities listed above.							
OTHER PRECAUTIONS	WEARING CONTACT LENSES IS INADVISABLE! KEEP AWAY FROM CHILDREN AND ANIMALS!							

HAZARD INFORMATION LABEL DATA			
HAZARD CODE	FLAMMABILITY	REACTIVITY	
4- Extreme			
3- High			
2- Moderate			
1- Slight			
0- Negligible			
	HEALTH		SPECIAL

Supersedes

AUG 1996

OSHA Revised DECEMBER 1998

Title R. GEER -CHEMIST

While Radiator Specialty Company believes this data is accurate as of the revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance thereon. The data is offered solely for information, investigation, and verification.