

COMPANY IDENTITY: ICP INTERNATIONAL, LLC
PRODUCT IDENTITY: DOT 4 BRAKE FLUID
REVISION DATE: 5/1/13

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MATERIAL SAFETY DATA SHEET

THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (HAZARD COMMUNICATION STANDARD)
IMPORTANT: Read this MSDS before handling & disposing of this product.
Pass this information on to employees, customers, & users of this product.

SECTION 1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION / HAZARD RATINGS

PRODUCT IDENTITY: DOT 4 BRAKE FLUID	
COMPANY IDENTITY: ICP INTERNATIONAL, LLC	HAZARD RATINGS:
COMPANY ADDRESS: P.O. BOX 1504	HEALTH (NFPA): 2
COMPANY CITY: JOHNSON CITY, TX 78636	HEALTH (HMIS): 2
COMPANY PHONE: 1-830 868 2131	FLAMMABILITY : 1
CHEMTREC PHONE: 1-800-424-9300	REACTIVITY : 0

SECTION 2. INGREDIENT & REGULATORY INFORMATION

All components of this product are on the TSCA list.
SARA TITLE III Section 313 Supplier Notification
This product contains the indicated <*> toxic chemicals subject to reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372.
This information must be included in all MSDSs that are copied and distributed for this material.

SARA TITLE III INGREDIENTS	CAS#	WT.% (REG SECTION) {LBS.}	RQ
Triethylene Glycol Monomethyl Borate Ester	68441-44-1	30-40	None
* Triethylene Glycol Monomethyl Ether	112-35-6	28-31 (313)	None
Polyethylene Glycol Monomethyl Ether	9004-74-4	14-28	None
Diethylene Glycol	111-45-6	0-5	None
*Triethylene Glycol Monobutyl Ether	143-22-6	0-3.25 (313)	None
Tetraethylene Glycol	112-60-7	0-2	None
Polyethylene Glycol	25322-68-3	0-2	None
Tetraethylene Glycol Monobutyl Ether	1559-34-8	0-1.5	None

SARA SECTION 311 / 312 HAZARDS: Acute Health.

MATERIAL	CAS#	TWA+ (OSHA) TLV (ACGIH)	HAP
Triethylene Glycol Monomethyl Ether	112-35-6	Not Established	No
Triethylene Glycol Monobutyl Ether	143-22-6	Not Established	No

Each component showing AYES@ under AHAP@ is an EPA Hazardous Air Pollutant.

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SECTION 2. INGREDIENT & REGULATORY INFORMATION (CONT.)
THIS PRODUCT MEETS REQUIREMENTS OF SOUTHERN CALIFORNIA
AQMD RULE 443.1 AND SIMILAR REGULATIONS.

CALIFORNIA PROPOSITION 65:

This product contains the following known chemical known to the State of California to cause cancer or reproductive damage. Triethylene Glycol Monomethyl Ether (TM)

DOT SHIPPING NAME: DRUM: DOT 4 BRAKE FLUID Not regulated
BULK: DOT 4 BRAKE FLUID Not regulated

SECTION 3. HAZARDS IDENTIFICATION

MATERIAL	CAS#	
Triethylene Glycol Monomethyl Borate Ester	68441-44-1	
Acute Oral LD50 >5 g/kg (Rat)	Acute Dermal LD50 >2 g/kg (Rabbit)	Acute Inhalation LC50 200 mg/l for 1 hour
This product is not known or reported to be a carcinogen, mutagen, or have any effects on reproductive function or fetal development from any route of exposure.		
* Triethylene Glycol Monomethyl Ether	112-35-6	
Acute Oral LD50 11.8 g/kg (Rat)	Acute Dermal LD50 7.4 g/kg (Rabbit)	Acute Inhalation LC50 N.D.
In a 14-day rat drinking water study, TM produced severe toxicity at doses of approximately 8 g/kg/day and above and mild to moderate toxicity at doses of approximately 4 g/kg/day. The no observable adverse effect level (NOAEL) was 1.6 g/kg/day. In a 13-week rat dermal toxicity study to determine if TM induced hematological and testicular effects observed with 2-methoxyethanol, there were no indications of systemic toxicity at doses as high as 4.0 g/kg/day. In an oral developmental toxicity study with rabbits, the NOAEL for maternal toxicity was 0.5 g/kg/day and the NOAEL for developmental toxicity was 1.5 g/kg/day.		
Polyethylene Glycol Monomethyl Ether		
Acute toxicity data is unavailable on these chemicals. These chemicals are expected to be less toxic than TM.		
Diethylene Glycol	111-46-6	
Acute Oral LD50 12500 mg/kg (Rat) 1000 mg/kg (Human)	Acute Dermal LD50 12000 mg/kg (rabbit)	Acute Inhalation LC50 130 mg/m ³ /2hr. (Mouse)
In vitro, no evidence of mutagenicity. No in vitro evidence of carcinogenicity or adverse reproductive effects in animal studies.		
*Triethylene Glycol Monobutyl Ether	143-22-6	
Acute Oral LD50 6.7 g/kg (Rat)	Acute Dermal LD50 3.5 g/kg (rabbit)	Acute Inhalation LC50 N.D.
TB was administered daily by gavage to pregnant rats on gestation days 7-16. No adverse developmental or maternal effects were observed.		
Tetraethylene Glycol	112-60-7	
No toxicological information is available on this material.		

THRESHOLD LIMIT VALUE: Not Established

SECTION 3. HAZARDS IDENTIFICATION (CONT.)

WARNING ! SLIGHTLY COMBUSTIBLE !

ACUTE HAZARDS

EYE & SKIN CONTACT:

May cause moderate to severe irritation and moderate transient corneal injury depending upon the concentration of glycol ether.

May cause irritation if left in contact with skin. Contact with large areas of skin for extended periods of time may result in the absorption of toxic amounts.

INHALATION:

Inhalation of mists may cause respiratory tract irritation, and central nervous system effects including headache, narcosis, weakness, slurred speech, and blurred vision. On the basis of the low vapor pressure of the product, inhalation of vapor is unlikely except at elevated temperatures.

SWALLOWING:

Swallowing may cause irritation of the gastrointestinal tract and central nervous system disturbances.

EFFECTS OF OVEREXPOSURE:

ACUTE:

May cause severe to moderate eye irritation and corneal injury. Slightly irritating to the skin with prolonged contact. Ingestion may produce central nervous system and gastrointestinal disturbances. Due to low vapor pressure, exposure by inhaling is minimal under normal handling conditions. According to animal studies a component may produce testicular damage and adverse female reproductive effects.

CHRONIC:

Repeated inhalation and ingestion can lead to central nervous system, gastrointestinal disturbances, and possible adverse reproductive effects.

This product has no carcinogens listed by IARC, NTP, NIOSH, OSHA, or ACGIH, as of this date, greater or equal to 0.1%.

SECTION 4. FIRST AID MEASURES AND PROCEDURES

EYE CONTACT:

Flush eyes with large amounts of water for at least 15 minutes, lifting eyelids to insure complete flushing of surface. GET MEDICAL ATTENTION IMMEDIATELY.

SKIN CONTACT:

Wash skin with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse.(Discard contaminated shoes.) If irritation occurs get medical attention.

INHALATION:

Remove exposed person to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. CALL A PHYSICIAN IMMEDIATELY.

SWALLOWING:

Never give anything by mouth to an unconscious person. Have patient drink several glasses of water, then induce vomiting by having patient tickle back of throat with finger. Keep airway clear. GET MEDICAL ATTENTION IMMEDIATELY.

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SECTION 5. FIRE FIGHTING MEASURES

AUTO IGNITION TEMPERATURE:	Not Determined
LOWER FLAMMABLE LIMITS IN AIR (% by vol.):	Not Determined
FLASH POINT (TEST METHOD) : COC	>200°F / >93.33°C
FLAMMABILITY CLASSIFICATION:	CLASS III B

EXTINGUISHING MEDIA:

Water fog, Alcohol foam, Carbon Dioxide (CO₂), and Dry Chemical. Do not use direct spray of water.

SPECIAL FIRE FIGHTING PROCEDURES:

Water spray may be ineffective on fire but can protect fire-fighters and cool closed containers.
Use fog nozzles if water is used. Do not enter confined fire-space without full bunker gear.
Helmet with face shield, bunker coats, gloves, and rubber boots.
Use NIOSH approved positive pressure self contained breathing apparatus.

UNUSUAL EXPLOSION AND FIRE PROCEDURES:

SLIGHTLY COMBUSTIBLE!

Keep containers tightly closed.
Isolate from oxidizers, heat, and open flame.
Closed containers may explode if exposed to extreme heat.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL OR LEAK PROCEDURES:

Stop spill at source. Dike area and contain. Clean up remainder with absorbent materials.
Mop up and dispose of properly.

WASTE DISPOSAL METHOD:

Recycle or Dispose of according to local, state, and federal health, safety, and pollution regulations.

HANDLING:

Isolate from oxidizers, heat, and open flame.
Use only with adequate ventilation. Avoid repeated breathing of vapor or spray mist.
Do not get in eyes, on skin, or on clothing.
Avoid free fall of liquid.
Ground containers when transferring.
Do not braze, cut, or weld around containers

STORAGE:

Store in a cool ventilated area below 120°F/49°C. Store large amounts in structures made for OSHA Class III liquids.
Keep container closed.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS:

Ventilate to keep vapors of this material below 20 ppm.
If over TLV, in accordance with 29 CFR 1910.134, use NIOSH approved positive-pressure, self-contained breathing apparatus.
Consult safety equipment supplier. Use Explosion Proof Equipment.

VENTILATION:

Local Exhaust:	Necessary
Mechanical:	Acceptable
Special:	None

PERSONAL PROTECTIONS:

Wear OSHA Standard goggles or face shield. Consult safety equipment supplier.
Wear gloves, apron, and footwear that are impervious to this material. Wash clothing before reuse.

SECTION 9. PHYSICAL DATA

APPEARANCE:	CLEAR TO AMBER LIQUID
ODOR:	MILD
BOILING RANGE:	Not Determined
GRAVITY @ 60°F:	
SPECIFIC GRAVITY (Water = 1):	1.062
POUNDS/GALLON:	8.84
VOC=S (VAPOR PRESSURE >0.44 LBS./SQ. IN) (LBS./GAL):	N.D.
TOTAL VOLATILE ORGANIC COMPOUNDS (TVOC) (g/L):	N.D.
NONEXEMPT VOLATILE COMPOUNDS (CVOC):	N.D.
VAPOR PRESSURE (mm of Hg) @ 20°C:	N.D.
NONEXEMPT VOC PARTIAL PRESSURE: (mm of Hg @ 20°C	0.0
VAPOR DENSITY (air = 1):	N.D.
WATER ABSORPTION:	Soluble

SECTION 10. REACTIVITY DATA

STABILITY:

Stable.

CONDITIONS TO AVOID:

Isolate from oxidizers, and high oxygen concentrations.

MATERIALS TO AVOID:

Isolate from strong oxidizers such as permanganate, chromate, and peroxides.

HAZARDOUS DECOMPOSITION PRODUCT:

Carbon Monoxide and/or oxygenated hydrocarbons.

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SECTION 10. REACTIVITY DATA (CONT.)

HAZARDOUS POLYMERIZATION:

Will not occur.

NOTICE

The supplier disclaims all expressed or implied warranties of fitness or merchantability for a specific use, with respect to the product, or the information provided herein, except for conformation to contracted specifications. All information appearing herein is based upon data obtained from manufacturer and/or recognized technical sources. While the information is believed to be accurate, we make no representations as to its accuracy or sufficiency.

Conditions of use are beyond our control, and therefore users are responsible for verifying the data under their own operating conditions to determine whether the product is suitable for their particular purposes and they assume all risks of their use, handling, and disposal of the product. Users also assume all risks in regards to the publication or use of, or reliance upon, information contained herein. This information relates only to the product designated herein, and does not relate to its use in combination with any other material or process.