

MATERIAL SAFETY DATA SHEET

Product Name: NAPA DOT 3 BRAKE FLUID # 03386

Part #:N/A

SECTION I SUPPLIER INFORMATION

Common Name : BRAKE FLUID
Chemical Name/Chemical Family: NONE LISTED / NONE LISTED
Formula/CAS : NONE LISTED / NONE LISTED

Supplier : DOW CHEMICAL COMPANY Supplier #:909
P.O. Box : 368
Address :
City, St, Zip: GREENVILLE SC 29602 Phone: 803-967-4261

***** EMERGENCY PHONE #: 803-967-4261 *****

Date Issued: 05-01-95

Date Entered: 05-29-97

Date Revised:

SECTION II INGREDIENT INFORMATION

PROPRIETARY MIXTURE OF:

%:	CAS #:	PEL:	TLV:	STEL:
	Target Organ:			
GLYCOL ETHERS				
%:N/A	CAS #:N/A	PEL:N/A	TLV:N/A	STEL:NA
	Target Organ: N/A			
POLYGLYCOLS				
%:N/A	CAS #:N/A	PEL:N/A	TLV:N/A	STEL:NA
	Target Organ: N/A			
GLYCOLS				
%:N/A	CAS #:N/A	PEL:N/A	TLV:N/A	STEL:NA
	Target Organ: N/A			
OXIDATION INHIBITORS				
%:N/A	CAS #:N/A	PEL:N/A	TLV:N/A	STEL:NA
	Target Organ: N/A			

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CORROSION INHIBITORS

%:N/A CAS #:N/A PEL:N/A TLV:N/A STEL:NA
Target Organ: N/A

NO 313 CHEMICALS

%: CAS #: PEL: TLV: STEL:
Target Organ:

***** INGREDIENT HAZARD STATEMENT *****

ACUTE HEALTH HAZARD
CHRONIC HEALTH HAZARD

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point : 430 F, 221 C
Specific Gravity (H2O = 1) : 1.03
Melting Point: NONE LISTED
Vapor Pressure (mm Hg): LOW
Vapor Density (Air=1): NOT DETERMINED
Evaporation Rate (Butyl Acetate=1): NONE LISTED
Solubility/Water: INFINITE

***** APPEARANCE AND ODOR *****

LIGHT YELLOW LIQUID WITH MILD ODOR

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point: 272 F, 133 C (PMCC)
Auto-Ignition: NONE LISTED
LEL: NOT DETERMINED
UEL: NOT DETERMINE

***** HMIS HAZARD CLASSIFICATION SYSTEM *****

Flammable: 0 Health: 2 Reactivity: 0 Special: G

***** EXTINGUISHING MEDIA *****

WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, FOAM.

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FOR LARGE SCALE FIRES, ALCOHOL RESISTANT FOAMS ARE PREFERRED IF AVAILABLE. GENERAL PURPOSE SYNTHETIC FOAMS OR PROTEIN FOAMS MAY FUNCTION, BUT MUCH LESS EFFECTIVELY.

WATER MAY BE USED TO FLUSH SPILLS AWAY FROM FIRE EXPOSURES AND TO DILUTE SPILLS TO NON-FLAMMABLE MIXTURES. IF POSSIBLE, CONTAIN FIRE RUN OFF WATER.

FOR LARGE SCALE FIRES, DIRECT WATER STREAM MAY CAUSE VIOLENT FROTHING, BUT FINE WATER SPRAY MAY HELP CONTROL SITUATION.

***** SPECIAL FIRE FIGHTING PROCEDURES *****

WEAR POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.

***** UNUSUAL FIRE AND EXPLOSION HAZARDS *****

KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY UNNECESSARY ENTRY. WHEN USING WATER SPRAY, BOIL OVER MAY OCCUR WHEN THE PRODUCT TEMPERATURE REACHES THE BOILING POINT OF WATER (TANK TYPE SCENARIOUS, NOT SPILLS).

SECTION V REACTIVITY DATA

Stability? PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

Avoid: NONE LISTED

***** INCOMPATIBILITY (Materials to Avoid) *****

STRONG OXIDIZING MATERIAL

***** HAZARDOUS DECOMPOSITION OR BY-PRODUCTS *****

COMBUSTION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE AND WATER. UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

Polymerization? POLYMERIZATION WILL NOT OCCUR

Avoid: NONE LISTED

SECTION VI HEALTH HAZARD DATA

***** ROUTES OF ENTRY *****

Inhalation? YES

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Skin? YES
Ingestion? YES
Eyes? YES

***** ADDITIONAL INFORMATION *****

THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). IN ADDITION, OTHER SUBSTANCES NOT "HAZARDOUS" PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETARY INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD.

FLASH POINT BY COC IS 280DF, 138DC.

ADDITIONAL HEALTH HAZARD DATA

TERATOLOGY (BIRTH DEFECTS): NO RELEVANT INFORMATION FOUND FOR MAJOR COMPONENTS. MINOR COMPONENTS, WHEN TESTED SEPARATELY, HAVE SHOWN LITTLE OR NO BIRTH DEFECT RISK FOR HUMANS ALTHOUGH FETAL TOXICITY HAS OCCURRED IN ANIMALS FOLLOWING INGESTION OF LARGE DOSES.

REPRODUCTIVE EFFECTS: NO RELEVANT INFORMATION FOUND FOR MAJOR COMPONENTS. SOME MINOR COMPONENTS, WHEN TESTED SEPARATELY, HAVE BEEN SHOWN NOT TO INTERFERE WITH REPRODUCTION, ALTHOUGH ONE OF THESE MINOR COMPONENTS WAS SLIGHTLY TOXIC TO THE OFFSPRING OF TREATED FEMALE RATS.

MUTAGENICITY (EFFECTS ON GENETIC MATERIAL): NO RELEVANT INFORMATION FOUND FOR MAJOR COMPONENTS. MINOR COMPONENTS TESTED FOR MUTAGENICITY HAVE PRODUCED NEGATIVE RESULTS IN IN VITRO ("TEST TUBE") TESTS.

REGULATORY INFORMATION

(NOT MEANT TO BE ALL-INCLUSIVE--SELECTED REGULATIONS REPRESENTED.)

NOTICE: THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS. THE FOLLOWING SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH NUMEROUS FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS AND REGULATIONS. SEE MSD SHEET FOR HEALTH AND SAFETY INFORMATION.

U.S. REGULATIONS

SARA 313 INFORMATION: THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

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NONE LISTED

SARA HAZARD CATEGORY: THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTION 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
AN IMMEDIATE HEALTH HAZARD
A DELAYED HEALTH HAZARD

TOXIC SUBSTANCES CONTROL ACT (TSCA):

ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED ON THE TSCA INVENTORY.

***** CARCINOGENICITY *****

NTP? NO

IARC? NO

OSHA? NO

ADDITIONAL INFORMATION

CANCER INFORMATION: NO RELEVANT INFORMATION FOUND FOR MAJOR COMPONENTS. TWO MINOR COMPONENTS HAVE BEEN TESTED FOR CARCINOGENICITY AND POSE NO CARCINOGENIC RISK TO MAN.

***** ACUTE AND CHRONIC HEALTH HAZARDS *****

EYE: MAY CAUSE MODERATE EYE IRRITATION. MAY CAUSE MODERATE CORNEAL INJURY.

SKIN CONTACT: PROLONGED OR REPEATED EXPOSURE MAY CAUSE SKIN IRRITATION. MAY CAUSE MORE SEVERE RESPONSE IF SKIN IS ABRADED (SCRATCHED OR CUT).

SKIN ABSORPTION: A SINGLE PROLONGED EXPOSURE IS NOT LIKELY TO RESULT IN THE MATERIAL BEING ABSORBED THROUGH SKIN IN HARMFUL AMOUNTS. THE DERMAL LD50 HAS NOT BEEN DETERMINED. PROLONGED OR REPEATED SKIN CONTACT WITH LARGE AMOUNTS OF SOME OF THE INGREDIENTS OF THIS FORMULATION MAY CAUSE DROWSINESS. MASSIVE CONTACT WITH DAMAGED SKIN OR OF MATERIAL SUFFICIENTLY HOT TO BURN SKIN MAY RESULT IN ABSORPTION OF POTENTIALLY LETHAL AMOUNTS.

INGESTION: SINGLE DOSE ORAL TOXICITY IS LOW. THE ORAL LD50 FOR RATS IS BELIEVED TO BE >2000 MG/KG. SMALL AMOUNTS SWALLOWED INCIDENTAL TO NORMAL HANDLING OPERATIONS ARE NOT LIKELY TO CAUSE INJURY; SWALLOWING OF AMOUNTS LARGER THAN THAT MAY CAUSE INJURY.

INHALATION: VAPORS ARE MINIMAL DUE TO PHYSICAL PROPERTIES; A SINGLE EXPOSURE IS NOT LIKELY TO BE HAZARDOUS.

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***** SIGNS AND SYMPTOMS OF EXPOSURE *****

SYSTEMIC & OTHER EFFECTS: NO RELEVANT INFORMATION FOUND FOR MAJOR COMPONENTS. THE MINOR COMPONENTS IN THIS FORMULATION WHEN TESTED SEPARATELY (USUALLY BY INGESTION) HAVE CAUSED KIDNEY, LIVER, GASTROINTESTINAL, TESTICULAR AND CENTRAL NERVOUS SYSTEM EFFECTS; BLADDER STONES; NAUSEA AND VOMITING.

***** MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE *****

NONE LISTED

***** EMERGENCY AND FIRST AID PROCEDURES *****

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.

SKIN: WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION: INDUCE VOMITING IF LARGE AMOUNTS ARE INGESTED. CONSULT MEDICAL PERSONNEL.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A PHYSICIAN.

NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO RECATIONS OF THE PATIENT.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

DOT Classification: NONE LISTED

***** STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED *****

KEEP OUT OF SEWERS, STORM DRAINS, SURFACE WATERS AND SOIL. DO NOT ALLOW TO CONTAMINATE GROUND WATER. SOAK UP WITH SUITABLE ABSORBENT MATERIAL AND SCOOP.

***** WASTE DISPOSAL METHOD *****

++DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER++ FOR UNUSED OR UNCONTAMINATED MATERIAL, THE PREFERRED MANAGEMENT OPTIONS ARE TO SEND TO A LICENSED RECYCLER, RECLAIMER, OR INCINERATOR. THE SAME MANAGEMENT OPTIONS ARE RECOMMENDED FOR USED OR CONTAMINATED MATERIAL, ALTHOUGH ADDITIONAL EVALUATION IS REQUIRED. (SEE, FOR EXAMPLE, 40CFR PART 261, "IDENTIFICATION AND

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LISTING OF HAZARDOUS WASTE.") ANY DISPOSAL PRACTICE MUST BE IN COMPLIANCE WITH FEDERAL, STATE, PROVINCIAL, AND LOCAL LAWS AND REGULATIONS. CHECK WITH APPROPRIATE AGENCIES FOR YOUR LOCATION. FOR ADDITIONAL INFORMATION, SEE SECTION 4 (REACTIVITY DATA) AND "REGULATORY INFORMATION".

AS A SERVICE TO ITS CUSTOMERS, DOW CAN PROVIDE LISTS OF COMPANIES WHICH RECYCLE, REPROCESS OR MANAGE CHEMICALS AND COMPANIES THAT RECONDITION USED DRUMS. TELEPHONE DOW'S CUSTOMER INFORMATION CENTER AT 800/258-2436 FOR FURTHER DETAILS.

***** PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE *****

PRACTICE REASONABLE CARE AND PERSONAL CLEANLINESS. SPILLS OF THESE ORGANIC LIQUIDS ON HOT FIBROUS INSULATIONS MAY LEAD TO LOWERING OF THE AUTOIGNITION TEMPERATURE POSSIBLE RESULTING IN SPONTANEOUS COMBUSTION.

***** OTHER PRECAUTIONS *****

NONE LISTED

SECTION VIII CONTROL MEASURES

***** RESPIRATORY PROTECTION *****

WHEN AIRBORNE EXPOSURE GUIDELINES AND/OR COMFORT LEVELS MAY BE EXCEEDED, USE AN APPROVED AIR-PURIFYING RESPIRATOR.

***** VENTILATION *****

Local Exhaust: NONE LISTED
Special Exhaust: NONE LISTED
Mechanical Exhaust: NONE LISTED
Other: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST CONDITIONS.

***** OTHER PROTECTION *****

Gloves: IF HANDS ARE CUT OR SCRATCHED, USE IMPERVIOUS GLOVES EVEN FOR BRIEF EXPOSURES. USE IMPERVIOUS GLOVES WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR.
Eye Protection: USE CHEMICAL GOGGLES.

***** CLOTHING *****

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN

SECTION VIII CONTROL MEASURES is continued on the next page.

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BODY-COVERING CLOTHING SHOULD BE NEEDED.

***** WORK/HYGIENE PRACTICES *****

ALWAYS PRACTICE GOOD PERSONAL HYGIENE.

***** MISCELLANEOUS INFORMATION *****

FOR INFORMATION REGARDING STATE/PROVINCIAL AND FEDERAL REGULATIONS SEE THE REGULATORY INFORMATION SECTION.

CONSULT ORIGINAL MSDS FOR FURTHER INFORMATION

**** SARA HAZARD CATEGORIES ****

FIRE HAZARD _____ SUDDEN RELEASE OF PRESSURE _____
IMMEDIATE (ACUTE) HEALTH HAZARD X DELAYED (CHRONIC) HEALTH HAZARD X
REACTIVITY HAZARD _____

Conversion Value to Pounds : 8.55
Chemical Descriptor: LIQUID
RQ (Reportable Quantity):

THIS IS THE END OF THE MSDS Id #260814