

# M.S.D.S.

MANUFACTURER'S NAME: TORCO RACING FUELS  
MANUFACTURER'S ADDRESS: 110 M-51 N. - DECATUR, MICHIGAN 49045  
MANUFACTURER'S TELEPHONE: 616-423-7737

EMERGENCY TELEPHONE: 1-800-821-3791  
DATE: 1-2-2003

## SECTION A - IDENTIFICATION AND EMERGENCY INFORMATION

PRODUCT NAME: METHANOL ENHANCER  
PRODUCT CATEGORY: METHANOL COMBUSTION ENHANCER  
PRODUCT CODE:  
PRODUCT APPEARANCE AND ODOR: RED (LIGHT REDDISH LIQUID), MILD ODOR  
MEDICAL EMERGENCY TELEPHONE NUMBER: 1-800-821-3791

## SECTION B- COMPONENTS AND HAZARD INFORMATION

THIS PRODUCT SPECIFIC CHEMICAL IDENTITY IS BEING WITHHELD AS A TRADE SECRET. CHEMICALS IN ALIPHATIC NITRO COMPOUND NEW JERSEY TRADE SECRET#0721916-GF.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (H.M.I.S.):

HEALTH FLAMMABILITY REACTIVITY

131

UN-1990 N.O.S.

BASIS

RECOMMENDED BY

BASIS

OSHA REGULATION 29 CFR 1910.1000 AND  
RECOMMENDED BY THE AMERICAN  
CONFERENCE OF GOVERNMENTAL  
INDUSTRIAL HYGIENISTS (ACGIH)

## SECTION C - PRIMARY ROUTES OF ENTRY AND EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: IF ADDITIVE GETS INTO THE EYES, FLUSH WITH CLEAR WATER FOR 15 MINUTES OR UNTIL IRRITATION SUBSIDES. IF IRRITATION PERSISTS, CALL A PHYSICIAN.

SKIN: IN CASE OF SKIN CONTACT, REMOVE ANY CONTAMINATED CLOTHING AND WASH SKIN WITH SOAP AND WATER. LAUNDRY OR DRY-CLEAN BEFORE REUSE.

INHALATION: VAPOR PRESSURE IS VERY LOW. VAPOR INHALATION UNDER AMBIENT CONDITIONS IS NORMALLY NOT A PROBLEM. IF OVERCOME BY VAPOR FROM HOT PRODUCT, IMMEDIATELY REMOVE FROM EXPOSURE AND CALL A PHYSICIAN IF BREATHING IS IRREGULAR OR HAS STOPPED, START RESUSCITATION; ADMINISTER OXYGEN, IF AVAILABLE.

INGESTION: IF INGESTED, DO NOT INDUCE VOMITING, CALL A PHYSICIAN IMMEDIATELY.

## SECTION D- FIRE AND EXPLOSION HAZARD INFORMATION

FLASH POINT (ASTM D-93/A): PMCC PROCEDURE A (95 DEGREES F)

NATIONAL FIRE PROTECTION ASSOCIATION (N.F.P.A.)-HAZARD IDENTIFICATION:

HEALTH FLAMMABILITY REACTIVITY

131

HANDLING PRECAUTIONS: USE PRODUCT WITH CAUTION AROUND HEAT, SPARKS, PILOT LIGHTS, STATIC ELECTRICITY, AND OPEN FLAME.

THE FOLLOWING PROCEDURES FOR THIS TYPE OF PRODUCT ARE BASED ON THE RECOMMENDATIONS IN THE NATIONAL FIRE PROTECTION ASSOCIATION'S "FIRE PROTECTION GUIDE ON HAZARDOUS MATERIALS"; TENTH EDITION (1991):

USE WATER SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE TO EXTINGUISH THE FIRE. USE WATER TO KEEP FIRE-EXPOSED CONTAINERS COOL. IF A LEAK OR SPILL HAS NOT IGNITED, USE WATER SPRAY TO DISPERSE THE VAPORS AND TO PROVIDE PROTECTION FOR MEN ATTEMPTING TO STOP A LEAK. WATER SPRAY MAY BE USED TO FLUSH SPILLS AWAY FROM EXPOSURES, MINIMIZE BREATHING OF GASES, VAPOR, FUMES OR DECOMPOSITION PRODUCTS. USE SUPPLIED-AIR BREATHING EQUIPMENT FOR ENCLOSED OR CONFINED SPACES OR AS OTHERWISE NEEDED.

SECTION E- HEALTH AND HAZARD INFORMATION

VARIABILITY AMONG INDIVIDUALS: AS A PROCAUTION, EXPOSURE TO LIQUIDS, VAPORS, MISTS OR FUMES SHOULD BE MINIMIZED.  
EFFECTS OF OVEREXPOSURE (SIGNS AND SYMPTONS OF EXPOSURE): PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE SKIN IRRITATION.

NATURE OF HAZARD AND TOXICITY INFORMATION: PROLONGED OR REPEATED SKIN CONTACT WITH THIS PRODUCT CAN, POSSIBLY LEADING TO IRRITATION AND DERMATITIS; HOWEVER, BASED ON HUMAN EXPERIENCE AND AVAILABLE TOXICOLOGICAL DATA, THIS PRODUCT IS JUDGED TO BE NEITHER A "CORROSIVE" NOR AN "IRRITANT" BY OSHA CRITERIA.

SECTION F - PHYSICAL DATA

SPECIFIC GRAVITY: 20/20 DEGREES C 1,019  
MOLECULAR WEIGHT: NOT DETERMINED

m:t.. ESSENTIALLY NEUTRAL

POUR CONGEALING OR MELTING POINT:  
-90 DEGREES F DROPPING POINT BY ASTM

VISCOSITY: VISCOSITY @ 100 DEGREES F - 28.3 SUS

VAPOR DENSITY: (AIR=1) 3

PERCENT VOLATILE BY VOLUME:

NEGLIGIBLE FROM OPEN CONTAINER  
IN 4 HOURS @ 38 DEGREES C (100 DEGREES F).

EVAPORATION RATE: @ 1 ATM, AND 25 DEGREES C (77 DEGREES F) (N-BUTYL ACETATE=1) LESS THAN 0.01

SEDIMENT AND WATER: (ASTM D-1796)

% BY VOLUME <9.08% NEGLIBIBLE: LESS THAN ASH:

(ASTM D-482) <0.001 %  
VISCOSITY: @ 100 DEGREES F-0.8 cST (ASTM D-445)  
SULFUR: TOTAL BY X-RAY (ASTM D-4294) COPPER  
CORROSION: RATING 1B. TEST CONDITION 3 HOUR  
@ 122 DEGREES F.

0.1%  
CARBON RESIDUE: (ASTM D-189) 0.05%  
BOILING POINT: (ASTM D-130) 226 DEGREES F  
ALCOHOL % BY VOLUME <0%

#### SECTION G - ENVIRONMENTAL INFORMATION

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: RECOVER FREE PRODUCT. ADD SAND, EARTH, OR OTHER SUITABLE ABSORBENT TO SPILL AREA. MINIMIZE SKIN CONTACT. KEEP PRODUCT OUT OF SEWERS AND WATERCOURSES BY DIKING OR IMPOUNDING. ADVISE AUTHORITIES IF PRODUCT HAD ENTERED OR MAY ENTER SEWERS, WATERCOURSES, OR EXTENSIVE LAND AREAS. ASSURE CONFORMITY WITH APPLICABLE GOVERNMENTAL REGULATIONS.

THE FOLLOWING INFORMATION MAY BE USEFUL IN COMPLYING WITH VARIOUS STATE AND FEDERAL LAWS AND REGULATIONS UNDER VARIOUS ENVIRONMENTAL STATUTES:

REPORTABLE QUANTITY:(T.P.Q.) EPA REGULATION 40 CFR 302 (CERCLA SECTION 102): NO RQ FOR PRODUCT OR ANY CONSTITUENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

THRESHOLD PLANNING QUANTITY (T.P.Q.) EPA REGULATION 40 CFR 355 (SARA SECTIONS 301-304): NO TPQ FOR PRODUCT OR ANY CONSTITUENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

TOXIC CHEMICAL RELEASE REPORTING. EPA REGULATION 40 CFR 372 (SARA SECTION 313): NO TOXIC CHEMICAL IS PRESENT GREATER THAN 1% OR 0.1% (CARCINOGEN).

HAZARDOUS CHEMICAL REPORTING, EPA REGULATION 40 CFR 370:

EPA HAZARD CLASSIFICATION CODE:	ACUTE HAZARD	CHRONIC HAZARD	FIRE PRESSURE HAZARD	HAZARD HAZARD	REACTIVE HAZARD
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#### SECTION H - PROTECTION AND PRECAUTIONS

VENTILATION: USE LOCAL EXHAUST TO CAPTURE VAPOR, MISTS, OR FUMES, IF NECESSARY. PROVIDE VENTILATION SUFFICIENT TO PREVENT EXCEEDING RECOMMENDED EXPOSURE LIMIT OR BUILD UP OF EXPLOSIVE CONCENTRATION OF VAPOR IN AIR. NO SMOKING, OR USE OF FLAME OR OTHER IGNITION SOURCES.

RESPIRATORY PROTECTION: USE SUPPLIED-AIR RESPIRATORY PROTECTION IN CONFINED OR ENCLOSED SPACES, IF NEEDED.

PROTECTIVE GLOVES: USE CHEMICAL-RESISTANT GLOVES, IF NEEDED, TO AVOID PROLONGED OR REPEATED SKIN CONTACT.

EYE PROTECTION: USE SPLASH GOGGLES OR FACE SHIELD WHEN EYE CONTACT MAY OCCUR.

OTHER PROTECTIVE EQUIPMENT: USE CHEMICAL-RESISTANT APRON OR OTHER IMPERVIOUS CLOTHING, IF NEEDED, TO AVOID CONTAMINATING REGULAR CLOTHING, WHICH COULD IN PROLONGED OR REPEATED SKIN CONTACT.

WORK PRACTICES/ENGINEERING CONTROLS: KEEP CONTAINERS CLOSED WHEN NOT IN USE. DO NOT STORE NEAR HEAT, SPARKS, FLAME OR STRONG OXIDANTS. IN ORDER TO PREVENT FIRE OR EXPLOSION HAZARDS, USE APPROPRIATE EQUIPMENT.

INFORMATION ON ELECTRICAL EQUIPMENT APPROPRIATE FOR USE WITH THIS PRODUCT MAY BE FOUND IN THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.F.P.A.-70). THIS DOCUMENT IS AVAILABLE FROM THE NATIONAL FIRE PROTECTION ASSOCIATION, BATTERYMARCH PARK, QUINCY, MASSACHUSETTS 02269

PERSONAL HYGIENE: MINIMIZE BREATHING VAPOR, MIST OR FUMES. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. REMOVE CONTAMINATED CLOTHING: LAUNDRY OR DRY CLEAN BEFORE REUSE. REMOVE CONTAMINATED SHOES AND THOROUGHLY CLEAN BEFORE REUSE. DISCARD IF OIL SOAKED. CLEANSE SKIN THOROUGHLY AFTER CONTACT, BEFORE BREAKS AND MEALS, AND AT END OF WORK PERIOD. PRODUCT IS READILY REMOVED FROM SKIN BY WATERLESS HAND CLEANERS FOLLOWED BY WASHING THOROUGHLY WITH SOAP AND WATER.

#### SECTION I - TRANSPORTATION AND OSHA RELATED LABEL INFORMATION

TRANSPORTATION INCIDENT INFORMATION: FOR FURTHER INFORMATION RELATIVE TO SPILLS RESULTING FROM TRANSPORTATION INCIDENTS, REFER TO LATEST DEPARTMENT OF TRANSPORTATION EMERGENCY RESPONSE GUIDEBOOK FOR NON-HAZARDOUS MATERIALS INCIDENTS.

U.S. DOT HAZARDOUS MATERIALS SHIPPING DESCRIPTION: NOT REGULATED.

OSHA REQUIRED LABEL INFORMATION: IN COMPLIANCE WITH HAZARD AND RIGHT-TO-KNOW REQUIREMENTS, WHERE APPLICABLE OSHA HAZARD WARNINGS MAY BE FOUND ON THE LABEL, BILL OF LADING OR INVOICE ACCOMPANYING THIS SHIPMENT.

NOTE: PRODUCT LABEL MAY CONTAIN NON-OSHA RELATED INFORMATION ALSO.

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE, TO THE BEST OF TORCO RACING FUELS KNOWLEDGE AND BELIEF, ACCURATE AND RELIABLE AS OF THE DATE ISSUED. TORCO RACING FUELS DOES NOT WARRANT OR GUARANTEE THEIR ACCURACY OR RELIABILITY, AND TORCO RACING FUELS SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE ARISING OUT OF THE USE THEREOF.

THE INFORMATION AND RECOMMENDATIONS ARE OFFERED FOR THE USER'S CONSIDERATION AND EXAMINATION, AND IT IS THE USER'S RESPONSIBILITY TO SATISFY ITSELF THAT THEY ARE SUITABLE AND COMPLETE FOR ITS PARTICULAR USE. IF BUYER REPACKAGES THIS PRODUCT, LEGAL COUNSEL SHOULD BE CONSULTED TO INSURE PROPER HEALTH, SAFETY, AND OTHER NECESSARY INFORMATION IS INCLUDED ON THE CONTAINER.

THE ENVIRONMENTAL INFORMATIONS INCLUDED UNDER SECTION H HERE OF AS WELL AS THE HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (H.M.I.S.) AND NATIONAL FIRE PROTECTION ASSOCIATION (N.F.P.A.) RATINGS HAVE BEEN INCLUDED BY TORCO RACING FUELS IN ORDER TO PROVIDE ADDITIONAL HEALTH AND HAZARD CLASSIFICATION INFORMATION. THE RATINGS RECOMMENDED ARE BASED UPON THE CRITERIA SUPPLIED BY THE DEVELOPERS OF THESE RATING SYSTEMS. TOGETHER WITH TORCO RACING FUELS INTERPRETATION OF THE AVAILABLE DATA.

FOR AN M.S.D.S. OR ASSISTANCE WITH AN M.S.D.S., DIRECT INQUIRIES TO THE ADDRESS BELOW OR CALL:  
TORCO RACING FUELS  
110 M-51 N