

MATERIAL SAFETY DATA SHEET

CAMCO MANUFACTURING, INCORPORATED

121 LANDMARK DRIVE - GREENSBORO, NC 27409 - (800)-334-2004 - (919)-668-7661

PRODUCT: WINDSHIELD WASHER FLUID -20

ISSUED DATE: NOVEMBER 15, 1991

PRODUCT CODE: 30907

REVISED DATE: SEPTEMBER 24, 1993

PREPARED BY: EDWIN P. McCRAVY, CHEMIST
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YODER OIL COMPANY, INC.
2204 California Road
Elkhart, IN 46514

ATTN: SAFETY CO-ORDINATOR

NFPA RATING:

0=INSIGNIFICANT
1=SLIGHT
2=MODERATE
3=HIGH
4=EXTREME

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0
OTHER	

SECTION 1

PRODUCT IDENTIFICATION

TRADE NAME: WINDSHIELD WASHER FLUID -20

CHEMICAL FAMILY: ALCOHOL

PRODUCT DESCRIPTION: MIXTURE OF ALIPHATIC ALCOHOLS AND PROPRIETARY NON-HAZARDOUS ADDITIVES.

SECTION 2

HAZARDOUS INGREDIENTS

INGREDIENTS	CAS #	BY WEIGHT %
METHYL ALCOHOL	67-56-1	<33%
ADDITIVES	N/A	<1%

SECTION 3

PHYSICAL DATA

BOILING POINT: NOT DETERMINED
VAPOR DENSITY:(AIR=1): 1.1 (METHYL ALCOHOL)
SOLUBILITY IN WATER: SOLUBLE
EVAPORATION RATE:(BUTYL ACETATE=1): >1
ODOR: ALCOHOLIC ODOR
FORM: LIQUID

MELTING POINT: NOT DETERMINED
VAPOR PRESSURE: NOT DETERMINED
SPECIFIC GRAVITY: 0.931195
COLOR: CLEAR BLUE
pH: APPROXIMATELY 6

NOTES: ACGIH TLV-TWA = 200PPM; ACGIH TLV-STEL = 250PPM; OSHA PEL TWA = 200PPM FOR METHYL ALCOHOL.

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SECTION 4

FIRE AND EXPLOSION DATA

FLASHPOINT: > 165 F.

FLAMMABLE LIMITS: LEL: N/D

UEL: N/D

EXTINGUISHING METHOD: CARBON DIOXIDE, DRY CHEMICAL OR "ALCOHOL" FOAM. WATER MAY BE INEFFECTIVE BUT SHOULD BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL, TO DISPERSE VAPORS AND TO DILUTE AND FLUSH THE SOLUTION.

SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING AND A SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS: DANGEROUS FIRE HAZARD. VAPOR ACCUMULATIONS MAY FLASH IF IGNITED. KEEP IGNITION SOURCES & OPEN FLAMES AWAY FROM FUMES.

SECTION 5

REACTIVITY DATA

STABILITY: STABLE

CONDITIONS TO AVOID: HEAT, SPARKS, AND OPEN FLAME.

INCOMPATIBILITY: OXIDIZING AGENTS, STRONG ACIDS.

HAZARDOUS DECOMPOSITION PRODUCTS: PRODUCTS OF COMBUSTION WHICH INCLUDE CARBON, MONOXIDE, CARBON DIOXIDE, ALDEHYDES AND ACIDS.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 6

HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION, INGESTION AND SKIN ABSORPTION.

ACCUTE HEALTH HAZARDS: EYES: MAY IRRITATE THE EYES AND CAUSE REDNESS.

SKIN: MAY CAUSE IRRITATION, CRACKING & DRYING OF SKIN.

INHALATION: MAY IRRITATE THE NOSE & THROAT. MAY CAUSE DIZZINESS, LETHARGY, HEADACHE, NARCOSIS, LOSS OF SIGHT, LOSS OF CONSCIOUSNESS & BEHAVIORAL DISTURBANCES.

SKIN ABSORPTION: HARMFUL QUANTITIES OF METHYL ALCOHOL MAY EFFECT EYES AND CENTRAL NERVOUS SYSTEM.

INGESTION: MAY CAUSE MALAISE, NAUSEA, ABDOMINAL PAIN, HEADACHE, SHORTNESS OF BREATH, VISUAL IMPAIRMENT AND BLINDNESS. SEVERE POISONING CAN CAUSE COMA AND DEATH.

CHRONIC HEALTH HAZARDS: NONE KNOWN.

LISTED AS A SUSPECT CARCINOGEN BY: NTP: NO

IARC: NO

OSHA: NO

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SECTION 7

FIRST AID DATA

CONTACT A PHYSICIAN IN ALL CASES OF EXPOSURE. THOSE ADMINISTERING FIRST AID SHOULD PROVIDE FOR THEIR OWN SAFETY PRIOR TO RENDERING ASSISTANCE.

EYES: FLUSH EYES THOROUGHLY WITH WATER FOR 15 MINUTES. CALL PHYSICIAN.

SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP & WATER. CALL PHYSICIAN IMMEDIATELY.

INGESTION: OBTAIN MEDICAL ATTENTION IMMEDIATELY.

INHALATION: MOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP WARM AND QUIET. CALL PHYSICIAN IMMEDIATELY.

CAUTION: DO NOT INDUCE VOMITING OR GIVE WATER TO ANYONE WHO IS HAVING TROUBLE BREATHING, IS UNCONSCIOUS OR HAVING CONVULSIONS.

ALWAYS CLEAN CONTAMINATED CLOTHING AND GEAR PRIOR TO REUSE. NEVER ADMINISTER ANYTHING TO AN UNCONSCIOUS PERSON.

SECTION 8

PERSONAL PROTECTIVE DATA

RESPIRATORY PROTECTION: USE APPROVED NIOSH RESPIRATOR WHEN TLV IS EXCEEDED.

VENTILATION: PROVIDE SUFFICIENT VENTILATION TO MAINTAIN EXPOSURE BELOW TLV.

PROTECTIVE EQUIPMENT: WEAR GLOVES, GOGGLE/FACE SHIELD, APRON & LONG SLEEVES.

SECTION 9

TOXICOLOGY DATA

TOXICITY STUDIES: TOXICITY STUDIES HAVE NOT BEEN CONDUCTED ON THIS PRODUCT. HOWEVER, TOXICITY LITERATURE SURVEYS HAVE BEEN CONDUCTED ON METHYL ALCOHOL. THE RESULTS ARE AS FOLLOWS:

ACUTE ORAL TOXICITY: ORAL HUMAN $LDL_0 = 340$ MG/KG. ORAL HUMAN $TDL_0 = 100$ MG/KG.

ACUTE DERMAL TOXICITY: SUBCUTANEOUS MOUSE $LDL_0 = 420$ MG/KG.

ACUTE RESPIRATORY TOXICITY: INHALATION HUMANS $TCL_0 = 300$ PPM. CENTRAL NERVOUS SYSTEM TOXIC EFFECTS OCCURED.

TOXICITY HAZARD REVIEW:

EXPOSURE TO METHYL ALCOHOL CAN CAUSE THE FOLLOWING SYMPTOMS:

ECZEMATOID DERMATITIS, CONJUNCTIVITIS, EUPHORIA, MUSCULAR INCOORDINATION, NAUSEA, HEADACHE, DIZZINESS, VOMITING, ABDOMINAL CRAMPS, SWEATING, WEAKNESS, TRACHEITIS, BRONCHITIS, NARCOSIS, DELIRIUM, COMA, CYANOSIS, RESPIRATORY FAILURE, ACIDOSIS, CARDIAC DEPRESSION, PERIPHERAL NEURITIS, ALBUMINURIA, CONVULSIONS & VISUAL DISTURBANCES SUCH AS CONCENTRIC CONSTRICTION OF VISUAL FIELDS, DECREASED VISUAL ACUITY, DILATED AND UNRESPONSIVE PUPILS, PAIN, PHOTOPHOBIA, AND BLINDNESS.

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SECTION 10

SPILL AND DISPOSAL DATA

SPILL CONTROL AND RECOVERY: TURN OFF IGNITION SOURCES. VENTILATE AREA TO PREVENT ACCUMULATION OF VAPORS. ABSORB WITH INERT SOLIDS AND SHOVEL INTO CONTAINERS SUITABLE FOR TRANSPORT AND DISPOSAL. DO NOT ALLOW MATERIAL TO GET INTO PUBLIC SEWER.

DISPOSAL: DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 11

TRANSPORTATION DATA

DOT PROPER SHIPPING NAME: METHANOL

HAZARD CLASS: 3 PACKING GROUP: II

UN/NA#: UN1230 LABELS REQUIRED: POISON (KEEP AWAY FROM FOODS): FLAMMABLE LIQUID

SECTION 12

GENERAL STORAGE

STORE IN CLOSED CONTAINERS IN A COOL, DRY, WELL VENTILATED AREA. KEEP AWAY FROM SPARKS AND OPEN FLAME.

SECTION 13

REGULATORY DATA

The following regulations apply to this product:

FEDERAL REGULATIONS:

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III
SECTION 311/312 HAZARD CATEGORIES: APPROXIMATELY 33% METHYL ALCOHOL.

SECTION 313: METHYL ALCOHOL IN THIS PRODUCT EXCEEDS THE DE MINIMUS REPORTING
LEVEL ESTABLISHED BY SARA TITLE III, SECTION 313 AND 40 CFR 372.

TOXIC SUBSTANCES CONTROL ACT (TSCA): ALL COMPONENTS OF THIS PRODUCT WITH
TLV'S ARE LISTED ON THE TSCA INVENTORY.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA):
METHYL ALCOHOL IN THIS PRODUCT IS SUBJECT TO THE REPORTING
REQUIREMENTS OF CERCLA. RQ = 5000 LBS.

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986,
PROPOSITION 65:

BASED ON INFORMATION CURRENTLY AVAILABLE, THIS PRODUCT IS NOT KNOWN TO
CONTAIN ANY CHEMICALS CURRENTLY LISTED AS CARCINOGENS OR REPRODUCTIVE
TOXINS UNDER CALIFORNIA PROPOSITION 65 AT LEVELS WHICH WOULD BE SUBJECT
TO THE PROPOSITION. IF YOU REFORMULATE OR FURTHER PROCESS THIS PRODUCT
YOU SHOULD FURTHER EVALUATE THIS PRODUCT BASED UPON SUCH REFORMULATION
OR PROCESSING, AS WELL AS UPON ITS FINAL COMPOSITION AND USE.

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SECTION 14

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