

MATERIAL SAFETY
DATA SHEET

VALVOLINE OIL COMPANY
DIVISION OF ASHLAND OIL, INC.
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24-HOUR
EMERGENCY
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000227

STARTING FLUID

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THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

PRODUCT NAME: STARTING FLUID
CAS NUMBER:

NAPA-DETROIT
NEW HOUSE AUTO

PO BOX 459

TAYLOR

MI 48180

ATTN: PLANT MGR / SAFETY DIR.

OS 70 000 0062919-023
DATA SHEET NO: 0177785-002
LATEST REVISION DATE: 10/85-#5276
PRODUCT: 00007208
INVOICE: 012524
INVOICE DATE: 12/18/86
TO:

10 N PARK ST

YPSILANTI

MI 48198

SECTION I-PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: SOLVENT BLEND

DOT HAZARD CLASSIFICATION: FLAMMABLE COMPRESSED GAS (173,300)

SECTION II-COMPONENTS

IF PRESENT, IARC, NTP AND OSHA CARCINOGENS ARE IDENTIFIED IN THIS SECTION
SEE DEFINITION PAGE FOR CLARIFICATION

INGREDIENT	% (BY WT)	NOTE
CARBON DIOXIDE GAS INDUSTRIAL GRADE CAS #: 124-38-9	1-10 TLV, 5000 PPM	
ALIPHATIC HYDROCARBON M CAS #: 142-82-5	>60 TLV, 400 PPM	(1)
ETHYL ETHER CAS #: 60-29-7	10-30 TLV, 400 PPM	(2)

(1): ACGIH - SHORT TERM EXPOSURE LIMIT (STEL) FOR N-HEPTANE IS 500 PPM. NIOSH
RECOMMENDS A LIMIT OF 85 PPM - 8 HOUR TWA, 440 PPM - CEILING.

(2): ACGIH - SHORT TERM EXPOSURE LIMIT (STEL) FOR ETHYL ETHER IS 500 PPM.

THE SPECIFIC CHEMICAL IDENTITY HAS BEEN WITHHELD AS A TRADE SECRET.

SECTION III-PHYSICAL DATA

PROPERTY	REFINEMENT	MEASUREMENT
BOILING POINT	FOR COMPONENT (10-30%)	94.00 DEG F 34.44 DEG C 760.00 MMHG
VAPOR PRESSURE	FOR COMPONENT (10-30%)	439.00 MMHG 68.00 DEG F 20.00 DEG C
SPECIFIC VAPOR DENSITY		HEAVIER THAN AIR
SPECIFIC GRAVITY		LESS THAN WATER
PERCENT VOLATILES		100.00%
EVAPORATION RATE		SLOWER THAN ETHER

SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT
(-58.0 DEG F
-50.0 DEG C)

EXPLOSIVE LIMIT (LOWEST VALUE OF COMPONENT) LOWER - 1.1%

EXTINGUISHING MEDIA: REGULAR FOAM OR CARBON DIOXIDE OR DRY CHEMICAL

HAZARDOUS DECOMPOSITION PRODUCTS: MAY FORM TOXIC MATERIALS: CARBON DIOXIDE AND CARBON MONOXIDE, VARIOUS HYDROCARBONS, ETC.

FIREFIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES.

WATER OR FOAM MAY CAUSE FROTHING WHICH CAN BE VIOLENT AND POSSIBLY ENDANGER THE LIFE OF THE FIREFIGHTER, ESPECIALLY IF SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.

SPECIAL FIRE & EXPLOSION HAZARDS: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, OT FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POS

NFPA CODES: HEALTH- 1 FLAMMABILITY- 3 REACTIVITY- 0

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