



MATERIAL SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: MATRIX Formula MX4 5W-30
COMPANY: MATRIX LUBRICANTS, LLC.
13225 FM 529 , SUITE D
HOUSTON, TX 77041

Emergency Assistance: Telephone No. (866) 484-5823
Information (713) 937-0000

Trade Name: Matrix Formula MX4 5W-30

Synonyms / Product Code: N.A.

Chemical Name: Petroleum Mineral Oil

Family Description: A complex combination of hydrocarbons from a petroleum fraction obtained by solvent crystallization plus additives.

DOT Hazard Class: Not Applicable

NFPA Codes: Health=0, Flammability=1, Reactivity=0

SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

Occupational Exposure Limits*

<u>Product</u>	<u>CAS Number</u>	<u>Wt %</u>	<u>Osha</u> <u>PEL</u>	<u>ACGIH</u> <u>TLV</u>	<u>Other</u>	<u>Units</u>
Formula MX4 5W-30	Mixture	100	N.A.	N.A.		

Ingredient(s):

Solvent Dewaxed Heavy Paraffinic Petroleum Distillate	64742-65-0	>85	5	5	10 Stel	mg/m 3**
Additives containing Zinc salt of dialkyl- Dithiophosphoric (ZDDP) Acids and polymers	N.A.	<15	N.A.	N.A.		

* = 8 Hr. TWA unless otherwise specified.

** = As mineral oil Mist

N.A. = Not Available

STEL = Short Term Exposure Limit; 15 minutes.

SECTION 3

PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point 760 mmHg:	N.A.	Melting Point: -30° F
Vapor Pressure mmHg @ 100°F	N.A.	Vapor Density (air=1): N.A.
Solubility in H ₂ O%:	Nil.	PH: N.A.
Specific Gravity (H ₂ O):	0.88	Evaporation Rate (ethyl ether =1):
%Volatile by Volume:	N.A.	Odor: Slight hydrocarbon odor
Viscosity (method, temp):	N.A.	Appearance: Pale liquid

N .A. = Not Available

SECTION 5

FIRE AND EXPLOSION DATA

Flashpoint: 410°F

Flammable Limits in Air % by Vol: Lower: N.A. Upper: N.A.

Autoignition Temperature: >800° F

Extinguishing Media: Dry chemical, foam, carbon dioxide or water spray.

Special Fire-Fighting Instructions: Water spray may be ineffective on flames but should be used to keep fire-exposed containers cool. Firefighters should wear self-contained breathing apparatus.

Unusual Fire or explosion Hazard: May ignite when sufficient heat is applied.

SECTION 6

REACTIVITY DATA

Stability:	Stable
Hazardous Polymerization:	Will not occur.
Conditions to Avoid / Incompatibility:	Strong oxidizing agents, heat, spark, flame and build-up of Static electricity.
Hazardous Decomposition Products:	Hydrogen sulfide, carbon monoxide, carbon dioxide, aldehydes, ketones, and combustion products of sulfur and nitrogen.

SECTION 7

HEALTH HAZARD DATA

This product has not been tested as a whole to determine its specific health hazards. The information provided in this section is based on health hazard information on the product components.

Carcinogenicity: NTP: No	IARC Monographs: No	OSHA Regulated: No
Occupational Exposure Limits:	See Composition section.	

Effects of Overexposure:

Acute:

Eyes

The heavy paraffinic petroleum distillate fraction of this product is believed to be minimally irritating. The Zinc salt of dialkyl; dithiophosphoric (ZDDP) acid is an eye irritant and may injure eye tissue if not removed promptly.

Skin: The heavy paraffinic petroleum distillate fraction of this product is believed to be minimally irritating. The lube oil additive component of this product may cause irritation.

Inhalation: The inhalation hazards of this products components are minimally irritating if airborne concentrations are kept below permissible occupational exposure limits.

Ingestion: Ingestion hazards range from practically non-toxic to minimally toxic for the components of this product. If vomiting occurs, product is an aspiration hazard.

Chronic: Frequent or prolonged contact may cause skin irritation.

Additional Medical and Toxicological Information: May aggravate pre-existing dermatitis. The International Agency for Research on Cancer (IARC) has determined that there is sufficient evidence for the carcinogenicity in experimental animals of used oil. A ZDDP-Mineral oil mixture, when applied to the skin of laboratory animals over a period of time, resulted in severe skin irritation and reproductive system effects.

SECTION 8 EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush thoroughly with water for at least 15 minutes. Get medical attention.

Skin Contact: Remove contaminated clothing. Wash affected areas with soap and water. If irritation occurs, get medical help.

Inhalation: Remove to fresh air. Apply artificial respiration if not breathing. Get medical attention.

Ingestion: Do not induce vomiting. If spontaneous vomiting occurs hold the victim's head lower than hips to prevent aspiration.

SECTION 9 SPECIAL PROTECTION INFORMATION

Eye Protection: Remove contact lenses and eye wear chemical safety goggles where contact with liquid or mist may occur.

Skin Protection: Wear impervision gloves when contact with skin may occur.

Inhalation: Use approved respiratory protective equipment for cleaning large spills or entry into large tanks, vessels or other confined spaces or in situations where exposure may exceed occupational exposure levels.

Ventilation: Provide adequate ventilation to keep mist or vapors below occupational exposure levels.

SECTION 10	SPILL OR LEAK AND DISPOSAL PROCEDURES
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Spill Procedures: Remove sources of heat or ignition including internal combustion engines and Power tools. Remove spill with vacuum trucks or pump and soak up residue with and absorbent. Use approved respirator where occupational exposure limits may be exceeded.

Waste Disposal: Dispose through a license waste disposal company. Follow federal, state and local regulation.

SECTION 11	SPECIAL PRECAUTIONS AND COMMENTS
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Storage Requirements: Store in tightly closed containers in dry cool place, away from sources of heat, ignition or strong oxidizers. Ground and bond all transfer and storage equipment and equip with self closing valves, pressure vacuum bungs and flame arrestors.

SECTION 12	SARA TITLE III INFORMATION
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<u>Acute</u>	<u>Chronic</u>	<u>Fire</u>	<u>Pressure</u>	<u>Reactive</u>
X	X			

SARA Hazardous Substances

<u>Ingredient</u>	<u>CAS NO.</u>	<u>%,WT</u>	<u>Sec 313</u>	<u>Sec 302</u>	<u>RQ,lb</u>	<u>TPQ,lb</u>
Zinc Compound	N.A.	<1	X			

Key: Sec 313 =Toxic Chemicals, Section 313
 Sec 302 =Extremely Hazardous Substances (EHS)
 RQ =Reported Quantity of EHS
 TPQ =Threshold Planning Quantity of EHS

SECTION 13	CALIFORNIA PROPITION 65 WARNING
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Chemicals known to the State of California to cause cancer, birth defects or other reproductive harm may be found in the petroleum products. Although it is possible to sufficiently refine the petroleum products to remove the potential for cancer, we are advising that one or more of the listed chemicals may be in some detectable quantities. Read and follow directions and use care when handling these petroleum products.



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Updated: January 12, 2005

U.S. Department of Labor Compliance
OSHA's Hazard Communication Standard CFR 1910.1200