



SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Moly XL Pro-Spec IV XP Synthetic Blend Motor Oil (SAE 10W/30, 15W/40)
PRODUCT IDENTIFIER CODE(S): 106786-106787
PRODUCT RECOMMENDED/INTENDED USE: Lubricant
MANUFACTURER/SUPPLIER: Texas Refinery Corp.
ADDRESS: 500 Airport Drive, Mansfield, TX 76063
GENERAL INFORMATION: 817-332-1161
24 HR. EMERGENCY PHONE NUMBER: CHEMTREC 1-800-424-9300

SECTION 2 HAZARDS IDENTIFICATION

GHS Classification(s):

Health	Physical	Environmental
Reproductive Toxicity – Category 2		

GHS Label:

Pictogram(s)	
Signal Word: Warning Hazard Statement(s): Suspected of damaging fertility	Response: FIRST AID: Get medical advice/attention if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists; get medical advice/attention. IF ON SKIN (or hair): Remove/take off immediately any contaminated clothing and wash skin thoroughly with plenty of soap and water. Wash contaminated clothing before reuse. IF SKIN IRRITATION OR RASH OCCURS: Get medical advice/attention. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. IN CASE OF FIRE: Use CO ₂ , foam, or dry chemical for extinction.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Weight %
Petroleum Process Oil*	*	85-95
Zinc alkyldithiophosphate	84605-29-8	0.5-1.5
Calcium sulfonate	Confidential	0.1-1.0
Alkylated phenol	121158-58-5	0.1-1.0
Benzeneamine, N-phenyl-, reaction products with ,4,4-trimethylpentene	68411-46-1	1.0-1.5
Molybdenum, bis(C11-14 branched and linear alkyl) carbamodithioate oxo thioxo complexes	906665-74-5	0.1-1.0

* The petroleum process oil contained in this material may be described by one or more of the following CAS Nos.: 64742-54-7 (Hydrotreated heavy paraffinic distillates), 64742-52-5 (Highly refined mineral oil, <3.0% DMSO extractable material), Mineral oil (64742-65-0).

SECTION 4**FIRST AID MEASURES**

PRINCIPAL ROUTES OF EXPOSURE: Eyes and Skin

EFFECTS OF EXPOSURE (ACUTE AND CHRONIC): Excessive exposure may result in mild eye, skin or respiratory irritation.

IF IN EYES: Flush eyes with water for at least 15 minutes or until irritation subsides.

IF SKIN IRRITATION OCCURS: Remove contaminated clothing. Wash skin thoroughly with soap and water. If persistent irritation occurs, obtain medical attention. Wash contaminated clothing before reuse.

IF SWALLOWED: DO NOT induce vomiting. Get immediate medical attention.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: None known.

NOTES TO PHYSICIAN: None.

SECTION 5**FIRE FIGHTING MEASURES**

NFPA RATINGS: HEALTH: 0 FLAMMABILITY: 1 REACTIVITY: 0

SUITABLE EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical, or foam for extinction.

UNSUITABLE EXTINGUISHING MEDIA: Do not use water in a jet.

FIREFIGHTING PROCEDURES: Use extinguishing methods that are appropriate to local circumstances and the surrounding environment.

PROTECTION OF FIRE FIGHTERS: Proper protective equipment including chemical resistant gloves are to be worn; chemical resistant suit is indicated if large contact with spilled material is expected. Self-contained breathing apparatus (SCBA) must be worn when approaching a fire in a confined space. Select firefighters clothing approved to relevant standards.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do NOT store or mix with strong oxidants.

COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide, smoke, fumes, and unidentified organic and inorganic compounds may be evolved from combustion and/or thermal decomposition.

SECTION 6**ACCIDENTAL RELEASE MEASURES**

PERSONAL PROTECTION: Wear appropriate personal protective equipment when cleaning up spills (See Section 8). Keep unnecessary people away; isolate hazard area and deny entry.

PROCEDURES: Shut off source of leak if safe to do so. No flares, smoking or flames in hazard area. Shut off sources of ignition. Small spills: Take up with appropriate non-combustible absorbent material and place into appropriate container(s) for waste disposal. Large spills: Dike far ahead of liquid spill and contain spill to prevent it entering sewers and water courses. Recover free liquid; spread absorbent in spill area; pick up and place in containers, and dispose of in accordance with Federal, State and/or Local regulations. Do not flush to sewer or waterways. Prevent release into the environment if possible. Refer to section 15 for spill/release reporting information.

SECTION 7**HANDLING AND STORAGE**

Avoid contact with eyes and prolonged or repeated contact with skin. Avoid breathing mist. Exercise ordinary care and observe good personal hygiene practices when handling this material. Keep container tightly closed in a cool, well-ventilated place. Use properly labeled and closable containers. Store away from strong oxidizers and at temperatures not exceeding 120 °F (49°C). This material has the potential to be a static accumulator.

SECTION 8**EXPOSURE CONTROLS/PERSONAL PROTECTION**

ENGINEERING CONTROLS: Use only in a well-ventilated area.

PERSONAL PROTECTIVE EQUIPMENT: Wear personal protective equipment as follows:

EYE/FACE PROTECTION: Safety Glasses with side shields or goggles if splashing could occur.

SKIN PROTECTION: Use chemical-resistant gloves to avoid prolonged or repeated skin contact.

RESPIRATORY PROTECTION: Not required under normal conditions of use. If exposure limits are exceeded, NIOSH approved respiratory protection should be worn for mist.

OCCUPATIONAL EXPOSURE LIMITS:

Component	PEL	TLV
Hydrotreated heavy paraffinic distillates (petroleum)	5 mg/m ³	5 mg/m ³
Highly refined mineral oil, <3.0% DMSO extractable material	5 mg/m ³	5 mg/m ³
Mineral oil	5 mg/m ³	5 mg/m ³
Molybdenum, bis(C11-C14 branched and linear alkyl) carbamodithioate oxo thioxo	15 mg/m ³	10 mg/m ³

106786-106787

SECTION 9**PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE (Color and physical state): Blue liquid

ODOR: Mild petroleum odor

ODOR THRESHOLD: Not determined

pH: Not Applicable

MELTING POINT/FREEZING POINT: Not determined

BOILING POINT (°F/C): >350/177

FLASH POINT (°F/C): >350/177 (COC)

AUTOIGNITION TEMPERATURE: Not determined

DECOMPOSITION TEMPERATURE: Not determined

EVAPORATION RATE (n-Butyl Acetate =1): < 1.0

UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS: Lel: 0.9% Uel: 7.0%

VAPOR PRESSURE (mm Hg): < 1.0 @ 100°F (38°C)

VAPOR DENSITY (Air=1): > 1.0

SOLUBILITY (ies) in water: Negligible

SPECIFIC GRAVITY (H₂O=1): 0.87-0.88

PARTITION COEFFICIENT (n-octanol/water): Not determined

PERCENT VOLATILE BY VOLUME: Negligible

SECTION 10**STABILITY AND REACTIVITY**

CHEMICAL STABILITY: This material is considered to be stable under specified conditions of use, shipment and storage.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizing agents.

CONDITIONS TO AVOID: Extremes of temperature and direct sunlight.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, smoke, fumes, and unidentified organic and inorganic compounds may be evolved from combustion and/or thermal decomposition.

HAZARDOUS REACTION/ POLYMERIZATION: Hazardous reaction/polymerization will not occur.

SECTION 11**TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY VALUES: There is no data available for this product as a whole.

Hydrotreated heavy paraffinic distillates (petroleum):

Oral LD₅₀ (Rat) = > 5000 mg/kg

Dermal LD₅₀ (Rabbit) = > 5000 mg/kg

Inhalation LC₅₀ (Rat) = > 5 mg/l;4H

Highly refined mineral oil, <3.0% DMSO Extractable material:

Oral LD₅₀ (Rat) = > 5000 mg/kg

Dermal LD₅₀ (Rabbit) = > 5000 mg/kg

Inhalation LC₅₀ (Rat) = > 5 mg/l;4H

Mineral oil:

Oral LD₅₀ (Rat) = > 5000 mg/kg

Dermal LD₅₀ (Rabbit) = > 5000 mg/kg

Inhalation LC₅₀ (Rat) = > 5 mg/l;4H

Benzeneamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

Oral LD₅₀ (Rat) = > 5000 mg/kg

Dermal LD₅₀ (Rabbit) = > 2000 mg/kg

Inhalation LC₅₀ (Rat) = No data available

IRRITANT EFFECT ON THE SKIN: Not irritating to skin. Prolonged or repeated skin contact without proper cleaning can clog the pores of the skin resulting in disorders such as oil acne/folliculitis. Prolonged or repeated skin contact may cause defatting of the skin which can lead to dermatitis. Symptoms may include redness, edema, drying and cracking of the skin.

IRRITANT EFFECT ON THE EYES: Expected to be slightly irritating to the eyes.

SENSITIZATION: Not expected to be a sensitizer.

MUTAGENICITY: Not expected to be mutagenic.

CARCINOGENICITY: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed carcinogen by IARC, ACGIH, OSHA or NTP.

REPROTOXICITY/TERATOGENICITY: Not expected to impair fertility. Not expected to be a developmental toxicant.

Alkylated phenol: Suspected of damaging fertility.

STOT- Single Exposure: Not expected to be a hazard.

STOT- Repeated Exposure: Not expected to be a hazard.

Alkylated phenol: This product contains para-dedecylphenol. Rats given high, repeated daily doses of para-dodecylphenol by oral intubation experienced effects on a number of organs including adrenal, thyroid, liver, ovary, testes, bone marrow and blood cell formation.

FURTHER INFORMATION ON TOXICOLOGY: No further information available.

SECTION 12

ECOLOGICAL INFORMATION

ECOTOXICITY: Ecotoxicological data have not been determined specifically for this product. Information given is based on a knowledge of the components and the ecotoxicology of similar products (LL/EL/IL50 expressed as the nominal amount of product required to prepare aqueous test extract).

Toxicity to fish (acute toxicity) Remarks: Expected to be practically nontoxic.

LL/EL/IL50 > 100 mg/l

Toxicity to daphnia and other aquatic invertebrates (acute toxicity): Remarks: Expected to be practically nontoxic.

LL/EL/IL50 > 100 mg/l

Toxicity to algae (acute toxicity): Remarks: Expected to be practically nontoxic.

LL/EL/IL50 > 100 mg/l

Toxicity to fish (chronic toxicity): Remarks: NOEC/NOEL expected to be > 10 - ≤ 100 mg/l

Toxicity to daphnia and other aquatic invertebrates (chronic toxicity): NOEC/NOEL expected to be > 10 - ≤ 100 mg/l

Toxicity to bacteria (acute toxicity): Remarks: Expected to be practically nontoxic.

LL/EL/IL50 > 100 mg/l

Zinc alkyldithiophosphate:

LC₅₀ (Rainbow trout): 4.4 mg/L;4d

NOEC (Rainbow trout): 3.2 mg/L;4d

EC₅₀ (Daphnia magna): 75 mg/L;2d

NOEC (Daphnia magna): 32 mg/L;2d

EC₅₀ (Daphnia magna): >0.8 mg/L;21d

NOEC (Daphnia magna): 0.4 mg/L;21 d

EC₅₀ (Green algae): 410 mg/L;3d

NOEC (Green algae): 210 mg/L;3d

EC₅₀ (Pseudomonas putida): 380 mg/L;0.1d

Alkylated phenol:

LC₅₀ (Fathead minnow): 40 mg/L;4d

EC₅₀ (Daphnia magna): 0.037 mg/L;2d

EC₅₀ (Green algae): 0.36 mg/L;2d

EC₅₀ (Sludge): >10000 mg/L;0.1d

Calcium sulfonate:

LC₅₀ (Rainbow trout): >100 mg/L;4d

NOEC (Rainbow trout): >100 mg/L;4d

LC₅₀ (Sheepshead minnow): >10,000 mg/L;4d

EC₅₀ (Daphnia magna): >1000 mg/L;2d

EC₅₀ (Green algae): >100 mg/L;3d

EC₅₀ (Sludge): >10,000 mg/L;0.1d

Benzeneamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene:

LC₅₀ (Fish): >100 mg/L;96h

EC₅₀ (Daphnia): 51 mg/L;48h

LC₅₀ (Microorganism): >100 mg/L;3d

INFORMATION ON ELIMINATION (PERSISTENCE AND DEGRADABILITY)

BIODEGRADABILITY: Petroleum Process Oil*: Expected to be inherently biodegradable.

Zinc alkyldithiophosphate: OECD TG 301 D, <5%, 28d, Not readily biodegradable

Alkylated phenol: Miscellaneous, 10%, 56d, Not readily biodegradable. OECD TG 301 B, 25%, 28d, Not readily biodegradable.

Calcium sulfonate: OECD TG 301 D, 8%, 28d, Not readily biodegradable

Benzeneamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: Not readily biodegradable.

BIOACCUMULATION: Has the potential to bioaccumulate.

BIOCONCENTRATION FACTOR (BCF): Alkylated phenol: 794.33 (Measured)

Benzeneamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene: 1730

PARTITION COEFFICIENT (n-octanol/water) (Log Kow): Zinc alkyldithiophosphate: Log Kow: 3.6 (Measured)

Alkylated phenol: Log Kow: 7.14 (Measured)

Calcium sulfonate: Log Kow: calculated 26.22

MOBILITY: Liquid under most environmental conditions. If it enters soil, it will adsorb to soil particles and will not be mobile.

FURTHER INFORMATION ON ECOLOGY: Product is a mixture of non-volatile compounds, which are not expected to be released into the air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential based upon available data for the components. Films formed on water may affect oxygen transfer and damage organisms. May cause physical fouling of aquatic organisms. Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/L. Do not allow to contaminate the soil, waterways or wastewater.

SECTION 13

DISPOSAL CONSIDERATIONS

PROCEDURES: Federal, State and/or Local approved disposal for waste oils. Avoid land filling of liquids. Reclaim where possible. Waste product should not be allowed to contaminate soil or ground water or be disposed of into the environment.

CONTAINER CLEANING AND DISPOSAL: Federal, State and/or Local approved disposal for waste oils.

SECTION 14

TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING DESCRIPTION: Non-regulated material.

INTERNATIONAL MARITIME ORGANIZATION (IMDG) SHIPPING DESCRIPTION: Non-regulated material.

SECTION 15

REGULATORY INFORMATION

THE COMPONENTS OF THIS PRODUCT ARE REPORTED IN THE FOLLOWING INVENTORIES:

TSCA: All hazardous components of this product are listed on or exempted from the TSCA inventory.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Alkylated phenol, De minimus concentration: 0.1%

EINECS: All components listed or polymer exempt.

DSL: All components listed or exempt.

CERCLA REPORTABLE QUANTITY: This material does not contain any components with a CERCLA RQ.

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES REPORTABLE QUANTITY: This material does not contain any components with a section 302 EHS RQ.

SARA 311/312 HAZARDS: None

SARA 304: Zinc alkyldithiophosphate, CAS# Confidential, Maximum 1.5% wt.

SARA 313: Zinc alkyldithiophosphate, CAS# Confidential, Maximum 1.5% wt.

CLEAN WATER ACT (CWA): If spilled into waters of the U.S., this product may be reportable under the Clean Water Act.

CLEAN AIR ACT (CAA): This product is not considered a hazardous substance under the Clean Air Act.

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

STATE REGULATIONS:

Component	Massachusetts RTK	New York RTK	New Jersey RTK	Pennsylvania RTK	California Prop. 65
Benzeneamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene			X	X	

INTERNATIONAL REGULATIONS:

Australia Inventory (AICS): All components are listed or exempted.

Canada Inventory: All components are listed or exempted.

China Inventory (IECSC): All components are listed or exempted.

Europe Inventory: All components are listed or exempted.

Japan Inventory (ENCS): All components are listed or exempted.

Korea Inventory (KECI): All components are listed or exempted.

New Zealand Inventory of Chemicals (NZIoC): All components are listed or exempted.

Philippines Inventory (PICCS): All components are listed or exempted.

Taiwan Chemical Substances Inventory (TCSI): All components are listed or exempted.

REVISION INDICATOR: Information added to section 2.

DATE OF REVISION: 08/15/2023

SUPERSEDES: 09/11/2020

DISCLAIMER: THIS INFORMATION IS BEING SUPPLIED TO YOU UNDER OSHA "RIGHT TO KNOW" REGULATION 29 CFR 1910.1200 AND IS OFFERED IN GOOD FAITH. THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE TRUE AND ACCURATE TO THE BEST OF OUR KNOWLEDGE. TEXAS REFINERY CORP. MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THIS DATE, THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL, OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. TEXAS REFINERY CORP. MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, CONCERNING THE SAFE USE OF THIS MATERIAL IN YOUR PROCESS OR IN COMBINATION WITH OTHER SUBSTANCES. TEXAS REFINERY CORP. ASSUMES NO RESPONSIBILITY FOR DAMAGE OR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.