

MPPL LIQUID

Released: 2016-05-05

Version: 1.1
Revision Date: 2016-05-05

1. IDENTIFICATION OF THE SUBSTANCE / APPLICATION AND THE COMPANY

Supplier:
Maxima Racing Oils
9266 Abraham Way
Santee, CA 92071
USA
+1 619 449 5000

Product Name: MPPL Liquid
Article Number: 95-04904

Applications: Lubricant/Protectant

Emergency Telephone: CHEMTREC +1 703 527 3887 (24 hours)

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable Liquid	Category 2
Aspiration Hazard	Category 1
Skin Irritant	Category 2
Skin Sensitizer	Category 1B
Specific Target Organ Toxicity – Single Exposure	Category 3
Toxic to Reproduction	Category 2

GHS Pictogram



Signal Word

Danger!

Hazard Statements

H225 Highly flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.

Precautionary Statements

Prevention P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, sparks, open flames, and hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground and bond container and receiving equipment
P241 Use explosion-proof electrical, ventilating and lighting equipment.
P242 Use only non-sparking tools.



MPPL LIQUID

Released: 2016-05-05

Version: 1.1
Revision Date: 2016-05-05

- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing dust, fume, gas, mist, vapors or spray.
- P264 Wash thoroughly after handling
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P280 Wear protective gloves.
- Response** P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P331 Do NOT induce vomiting.
- P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P333 + P313 If skin irritation or rash occurs: Get medical attention.
- P362 + P364 Take off contaminated clothing and wash it before reuse.
- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P308 + P313 IF exposed or concerned: Get medical attention.
- P370 + P378 In case of fire: Use carbon dioxide, foam or dry chemical to extinguish.
- Storage** P405 Store locked up.
- Disposal** Dispose of contents and container in accordance with local, regional and national regulations.
- Other Hazards** None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number
Hydrotreated light distillate (Petroleum)	40-60	64742-47-8
Petroleum Distillates	10-20	64742-89-8
Heptane	5-15	142-82-5
Cyclohexane	1-3	110-82-7
Calcium Sulfonate	1-3	Trade Secret
Hexane	0.1-<1	110-54-3

The specific identity and/or exact percentage has been withheld as a trade secret.

4. FIRST-AID MEASURES

- Inhalation** Immediately remove to fresh air. If breathing is difficult have qualified personnel administer oxygen. If breathing has stopped, administer artificial respiration. Get medical attention.
- Skin Contact** Remove contaminated clothing. Wash skin thoroughly with soap and water. If irritation or rash develops, get medical attention. Launder clothing before re-use.



MPPL LIQUID

Released: 2016-05-05

Version: 1.1
Revision Date: 2016-05-05

Eye Contact	Flush eyes with large quantities of water, holding the eyelids apart. Get medical attention if irritation develops or persists.
Ingestion	Aspiration Hazard. Do not induce vomiting. If conscious, rinse mouth with water. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration into the lungs. Get immediate medical attention.
Most Important Symptoms	May cause eye irritation. Causes skin irritation. May cause an allergic skin reaction. Inhalation of vapors or mist may cause respiratory irritation and central nervous system effects such as headache, dizziness, drowsiness, nausea and unconsciousness. Aspiration hazard: Harmful or fatal if swallowed. Suspected of causing reproductive or developmental effects based on animal data.
Indication of Immediate Medical Attention Needed	Immediate medical attention is required for ingestion.
Notes to Physician	Treat appropriately.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use carbon dioxide, alcohol foam or dry chemical. Water may be ineffective but can be used to cool exposed containers and structures and disperse flammable vapors.
Specific Hazards Arising From The Chemical	This product is highly flammable and forms explosive mixtures with air. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat. Combustion may produce carbon oxides.
Special Protective Equipment And Precautions For Fire-Fighters	Firefighters should wear full emergency equipment and an approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate spill area and keep unprotected personnel away. Remove all sources of ignition. Ventilate area with explosion proof equipment. Wear appropriate protective clothing. See also: "Personal Protection "section 8.
Environmental Hazards	Avoid release into the environment. Report spill as required by local and federal regulations.
Methods/Materials for Cleaning up	Contain and collect using inert absorbent materials and place in appropriate containers for disposal. Use non-sparking tools and equipment. If spill has not ignited, use water spray to disperse the vapors and protect



MPPL LIQUID

Released: 2016-05-05

Version: 1.1
Revision Date: 2016-05-05

personnel attempting to stop leak. Ensure collected material is handled in accordance with section 13 "Disposal Considerations".

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with the eyes, skin and clothing. Do not breathe vapors or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep away from heat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated area away from heat, direct sunlight and all sources of ignition. Store in accordance with regulations for the storage of flammable liquids. Store away from oxidizers and other incompatible materials. Protect from physical damage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	Exposure Limits
Hydrotreated light distillate (Petroleum)	5 mg/m ³ TWA ACGIH TLV (inhalable) (as mineral oil) 5 mg/m ³ TWA OSHA PEL (as oil mist, mineral)
Petroleum Distillates	5 mg/m ³ TWA ACGIH TLV (inhalable) (as mineral oil) 5 mg/m ³ TWA OSHA PEL (as oil mist, mineral)
Heptane	400 ppm TWA, 500 ppm STEL ACGIH TLV 500 ppm TWA OSHA PEL
Cyclohexane	100 ppm TWA ACGIH TLV 300 ppm TWA OSHA PEL
Calcium Sulfonate	None Established
Hexane	50 ppm TWA skin ACGIH TLV 500 ppm TWA OSHA PEL

Appropriate Engineering Controls

Use with adequate local exhaust ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment where required.

Personal Protection



MPPL LIQUID

Released: 2016-05-05

Version: 1.1
Revision Date: 2016-05-05

Respiratory Protection	If the exposure limits are exceeded, an approved organic vapor respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with local regulations and good industrial hygiene practice.
Eye Protection	Wear chemical safety glasses or goggles to prevent eye contact.
Skin/Body Protection	Wear protective clothing if needed to avoid skin contact and contamination of personal clothing. Suitable washing should be available in the work area. Contaminated clothing should be removed and laundered before re-use.
Hand Protection	Wear impervious gloves to avoid prolonged skin contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Clear
Odor	Characteristic odor
Odor Threshold	No data available
pH	No data available
Freezing Point	No data available
Boiling Point	98.2 - 98.4 °C (208.76 – 209.12) (Heptane)
Flash Point	-4 °C (24.8 °F) (Heptane)
Evaporation Rate	No data available
Flammability (solid, gas)	Not applicable
Upper Explosion Limit	6.7% (heptane)
Lower Explosion Limit	1.05% (t heptane)
Vapor Pressure	6.09 kPa @ 25°C (77°F) (Heptane)
Vapor Density (Air=1)	No data available
Relative Density	0.69 @ 15°C (59°F) (Heptane)
Solubility	In water: 2.4 mg/L @ 25°C (77°F) (Heptane)
Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	204°C (399.2°F) (Heptane)
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	No data available
Viscosity	0.641 mm ² /s @ 20° (68°F)

10. STABILITY AND REACTIVITY

Reactivity	Not expected to be reactive.
-------------------	------------------------------



MPPL LIQUID

Released: 2016-05-05

Version: 1.1
Revision Date: 2016-05-05

Chemical Stability	Stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	Keep away from heat, sparks, flames and all other sources of ignition.
Incompatible Materials	Avoid contact with strong oxidizing agents, halogens, peroxides and strong reducing agents.
Hazardous Decomposition Product	Thermal decomposition may produce carbon oxides.

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards

Eye Contact: May cause irritation with redness and tearing.

Skin Contact: Causes irritation with redness and drying of the skin. Prolonged contact may cause defatting of the skin and dermatitis. May cause an allergic skin reaction.

Inhalation: Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, giddiness, intoxication, nausea, vomiting, disorientation, stupor and unconscious. Severe exposures may cause pulmonary edema.

Ingestion: Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea, narcosis and unconsciousness. Aspiration into the lungs during ingestion or vomiting may cause serious lung damage which may be fatal.

Chronic Effects of Overexposure: None known.

Sensitization: This product is classified as a skin sensitizer. Calcium Sulfonate is classified as a skin sensitizer based on a read-across study.

Mutagenicity: No data available for mixture. Components are not germ cell mutagens.

Reproductive Toxicity: This product contains hexane, which is suspected of damaging fertility or the unborn child. In an acute inhalation toxicity study researchers exposed male Sprague-Dawley rats (12–39/group) to 5000 ppm n-hexane (99% pure) in either a single 24-hour exposure, repeated 16-hour/day exposures for up to 8 days, or repeated 16-hour/day exposures, 6 hours/day for up to 6 weeks. Animals exposed for 16 hr/day, 6 days/week at the same concentration of 5000 ppm for up to 6 weeks induced progressive increases in testicular and epididymal lesions, which, after 5 weeks (when most animals began to show clinical symptoms of polyneuropathy), reached aplasia of the germinal epithelium involving also the spermatogonia. After interruption of the treatment, the testicular lesions became increasingly severe, up to complete atrophy of the seminiferous tubules, which suggests irreversible sterility.

Carcinogenicity: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

Acute Toxicity:



MPPL LIQUID

Released: 2016-05-05

Version: 1.1
Revision Date: 2016-05-05

Hydrotreated light distillate (Petroleum): Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >4.3 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg

Petroleum Distillates: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 2.18 mg/L, Dermal rabbit LD50 >2000 mg/kg

Heptane: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 >29.29 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg.

Cyclohexane: Oral rat LD50 >5000 mg/kg, Inhalation rat LC50 19.27 mg/L/4 hr, Dermal rabbit LD50 >2000 mg/kg

Calcium Sulfonate: No data available.

Hexane: Oral rat LD50 16000 mg/kg, Inhalation rat LC50 17.6 mg/L/4 hr, Dermal rabbit LD50 3.35 g/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Hydrotreated light distillate (Petroleum): 96 hr LL50 Oncorhynchus mykiss: 2-5 mg/L

Petroleum Distillates: 96 hr LL50 Pimephales promelas >100 mg/L, 48 hr EL50 >10000 mg/L

Heptane: 96 hr LL50 Oncorhynchus mykiss 5.29 mg/L, 48 hr EC50 daphnia magna 1.5 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata 4.338 mg/L, 21 days NOEC daphnia magna: 0.17 mg/L

Cyclohexane: 96 hr LC50 Pimephales promelas 4.53 mg/L, 48 hr EC50 daphnia magna 0.9 mg/L, 72 hr EC50 Pseudokirchnerella subcapitata 9.317 mg/L

Hexane: 96 hr LL50 Oncorhynchus mykiss 12.51 mg/L, 48 hr LC50 Daphnia magna 21.85 mg/L, 72 hr EL50 Pseudokirchnerella subcapitata 9.285 mg/L

This product is toxic to aquatic life with long lasting effects. Releases to the environment should be avoided.

Biodegradation Heptane, cyclohexane and hexane are readily biodegradable. Petroleum distillates are inherently biodegradable.

Bioaccumulation Heptane has BCF less than 3. This suggests the bioconcentration in aquatic organisms is expected to be low.

Mobility in soil Heptane and cyclohexane are moderately mobile in soil.

Other adverse effects None known.

13. DISPOSAL CONSIDERATIONS

Disposal Dispose in accordance with all local, state and national regulations.

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT	UN1268	Petroleum distillates, n.o.s.	3	PGII	Marine Pollutant



MPPL LIQUID

Version: 1.1

Released: 2016-05-05

Revision Date: 2016-05-05

TDG	UN1268	Petroleum distillates, n.o.s.	3	PGII	No
IMDG	UN1268	Petroleum distillates, n.o.s.	3	PGII	Marine Pollutant
IATA	UN1268	Petroleum distillates, n.o.s.	3	PGII	No

Note: This product can be shipped as a limited quantity if the packaging complies.

Note: Inner packages with less than 5 liters of liquid/ 5 kg of solid are exempt from Marine Pollutant per DOT 171.4, IMDG Code 2.10.2.7 and ICAO Special Provision A197.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code): Not applicable – product is transported only in packaged form

Special precautions: None known.

15. REGULATORY INFORMATION

CERCLA: This product has a Reportable Quantity (RQ) of 33,333 lbs. (based on the RQ for cyclohexane of 1,000 lbs). Releases above the RQ must be reported to the National Response Center. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations

EPA SARA 302: This product does not contain chemicals regulated under SARA Section 302.

EPA SARA 311 Hazard Classification: Acute Health, Chronic Health, Fire Hazard

EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313:

Components	Content %	CAS Number
Cyclohexane	1-3	110-82-7

California Proposition 65: This product contains chemicals known to the State of California to cause cancer and reproductive toxicity.

Chemical Inventories

Toxic Substances Control Act: All of the components of this product are listed on the TSCA inventory

16. OTHER INFORMATION

NFPA Rating (NFPA 704): Health: 2 Fire: 3 Instability: 0
 HMIS Rating: Health: 2* Fire: 3 Physical Hazard: 0
 *Chronic Health Hazard

Supersedes: None



MPPL LIQUID

Released: 2016-05-05

Version: 1.1

Revision Date: 2016-05-05

Date Updated: May 5, 2016

Revision Summary: New document.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.