FORMULA K2 INJECTOR

Version: 1.1
Released: 2018-10-09 Revision Date: 2024-09-10

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: Formula K2 Injector

Article Number: 20-22901, 20-22964, 20-22505, 20-22055

Applications: 2T Engine Oil

Emergency Telephone: In USA: CHEMTREC +1 703 527 3887 (24 hours)
Outside USA: +1 619 449 5000

2. HAZARDS IDENTIFICATION

GHS Classification	Not classified as hazardous in accordance with OSHA Hazcom 2012
GHS Pictogram	None
Signal Word	None
Hazard Statements	None
Precautionary Statements	
Prevention	None
Response	None
Storage	None
Disposal	None
Other Hazards	None

3. COMPOSITION / INFORMATION ON INGREDIENTS

Components	Content %	CAS Number
Trimethylolpropane tricaprylate/tricaprate	5-10	11138-60-6
Synthetic base oils	30-50	Proprietary
Proprietary Additives	5-15	Mixture

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

4. FIRST-AID MEASURES

Inhalation	If inhaled remove to fresh air. If irritation or difficulty in breathing occurs, get medical attention.
Skin Contact	Wash skin with soap and water. Remove clothing and shoes if contaminated. Launder clothing before reuse.

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Eye Contact	Flush eyes with water for several minutes. Remove contact lenses, if present and easy to do so. If eye irritation persists, get medical attention.
Ingestion	If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
Most Important Symptoms	May cause mild eye irritation. Prolonged skin contact may cause irritation. Inhalation of vapors or mists may cause respiratory irritation. Swallowing may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Indication of Immediate Medical Attention Needed	Immediate medical attention is not required.
Notes to Physician	Treat appropriately

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish flames.
Specific Hazards Arising From The Chemical	This material will burn although it is not easily ignited. Combustion will produce carbon oxide and unidentified organic compounds.
Special Protective Equipment And Precautions For Fire-Fighters	Firefighters should wear full emergency equipment and a NIOSH approved positive pressure self-contained breathing apparatus. Cool exposed intact containers with water.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Wear appropriate protective equipment. Wash thoroughly after handling. 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	Dike spill and collect with an inert absorbent. Place into closable containers for disposal. Collected material is handled in accordance with section 13 "Disposal Considerations".

7. HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid contact with eyes and prolonged or repeated contact with skin and clothing. Avoid breathing vapors and mists. Wash thoroughly after handling. Remove oil-soaked clothing and launder before re-use.
Conditions for Safe Storage	Store in a cool area away from oxidizing agents. Protect containers from physical damage.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Trimethylolpropane tricaprylate/tricaprate	5 mg/m3 TWA Manufacturer
	Synthetic base oils	5 mg/m3 TWA Manufacturer
	Proprietary Additives	None Established

Appropriate Engineering Controls Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. If the recommended exposure limit is exceeded increased mechanical ventilation such as local exhaust may be required.

Personal Protection

Respiratory Protection: None needed under normal use conditions with adequate ventilation. If exposure limits are exceeded, use a NIOSH approved respirator with organic vapor cartridges and particulate pre-filter. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with OSHA 1910.134 and good Industrial Hygiene practice.

Eye Protection: Safety glasses or goggles recommended if splashing is possible.

Skin/Body Protection: No special protective clothing is normally required. If there is a potential for prolonged skin contact, wear a long sleeved shirt and apron. Neoprene or nitrile rubber boots when necessary to avoid contaminating shoes.

Hand Protection: Use nitrile or neoprene gloves for prolonged or repeated skin contact. .

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid
Color	Yellow to amber
Odor	Slight petroleum odor
Odor Threshold	No data available
pH	No data available
Freezing Point	No data available
Boiling Point	No data available
Flash Point	252°F / 122°C (COC)
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper Explosion Limit	No data available
Lower Explosion Limit	No data available
Vapor Pressure	<0.01 mmHg @ 100°F
Vapor Density (Air=1)	>1
Relative Density	0.89 @ 15.0°C
Solubility	Soluble in hydrocarbons; insoluble in water

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Partition Coefficient: n-octanol/water	No data available
Auto Ignition Temperature	No data available
Decomposition Temperature	No data available
Volatile Organic Compounds (VOC)	No data available
Viscosity	63.5 cSt @40°C

10. STABILITY AND REACTIVITY

Reactivity	Not expected to be reactive.
Chemical Stability	Stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	Avoid temperatures over 120°F, open flames and sparks.
Incompatible Materials	Avoid contact with strong oxidizing agents.
Hazardous Decomposition Product	Thermal decomposition may produce carbon oxides and unidentified organic compounds

11. TOXICOLOGICAL INFORMATION

Potential Health Hazards
Eye Contact: May cause mild irritation
Skin Contact: Prolonged or repeated contact may cause mild irritation or dryness. Repeated skin contact may cause dermatitis.
Inhalation: Excessive inhalation of vapors or mists may cause upper respiratory tract irritation and central nervous system effects including headache, dizziness and nausea. Breathing high concentrations of oil mists may cause lung damage.
Ingestion: Swallowing large amounts may cause gastrointestinal effects including nausea and diarrhea.
Chronic Effects of Overexposure: Used motor oils have been found to cause skin cancer in skin painting studies with laboratory animals.
Sensitization: None of the components have been found to cause sensitization in animals or humans.
Mutagenicity: This product is not expected to cause mutagenic activity.
Reproductive Toxicity: This product is not expected to cause reproductive or developmental effects.
Carcinogenicity: None of the components of this product are listed as a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

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Acute Toxicity:

Trimethylolpropane tricaprylate/tricaprate	Oral rat LD50 >2000 mg/kg, Inhalation rat LC50 >5.1 mg/L, Dermal; rabbit LD50 >2000 mg/kg
Synthetic base oils	Oral rat LD50 >34600 mg/L, Dermal rabbit LD50 >10250 mg/kg, Inhalation rat LC50 >17.3 mg/L/4 hr
Proprietary Additives	Oral rat LD50 >2000 mg/kg, Dermal rabbit LD50 >10,000 mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Trimethylolpropane Tricaprylate/caprate (TMP Ester)	96 hr LC50 danio rerio >10,000 mg/L, 48 hr EL50 daphnia magna >100 mg/L, 72 hr EL50 >100 mg/L Desmodesmus subspicatus
Synthetic base oils	No data available.
Proprietary Additives	96 LL50 fish 10-100 mg/L, 48 hr EL50 daphnia magna 10-100 mg/L

Biodegradation Trimethylolpropane tricaprylate/caprate and petroleum distillates are readily biodegradable. Synthetic base oils is not expected to be readily biodegradable.

Bioaccumulation Synthetic base oils is not expected to bioaccumulate. Trimethylolpropane tricaprylate/caprate is not expected to bioaccumulate. Petroleum distillates has the potential to bioaccumulate.

Mobility in soil No data available

Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
DOT		Not Regulated			
TDG		Not Regulated			
IMDG		Not Regulated			
IATA		Not Regulated			

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.

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15. REGULATORY INFORMATION

CERCLA: This product is not subject to CERCLA reporting requirements, however, oil spills are reportabl to the National Response Center under the Clean Water Act and 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: Not hazardous
EPA SARA 313: This product contains the following chemicals that are regulated under SARA Title III, section 313: None
California Proposition 65: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
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: 1	Fire: 1	Instability: 0
HMIS Rating:	Health: 1	Fire: 1	Physical Hazard: 0

Date of Revision: September 11, 2024
Date of Previous Revision: October 9, 2018
Revision History:
10/9/18: New document
9/11/24: Reviewed all sections and ensured they are up to date
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.