



Safety Data Sheet - GHS

SECTION 1.0 PRODUCT AND COMPANY IDENTIFICATION

PRODUCT

Trade Name: **TOYO-G TOP RANGE 0W-30 R+**
Intended Use: Engine Oil, Racing
Formula: Proprietary Formulation.

COMPANY IDENTIFICATION

Supplier: **TOYO GREASE MANUFACTURING (M) SDN BHD**
8, Jalan 6/10, Seksyen 6
Bandar Rinching, 43500 Semenyih
Selangor Darul Ehsan, Malaysia

Emergency Telephone No: 60-3-8724 8969
Emergency Fax Line: 60-3-8724 6869
SDS Email: info@toyointernational.com

SECTION 2.0 HAZARDS IDENTIFICATION

GHS CLASSIFICATION

Under normal conditions of use, this product is not classified as dangerous substance or mixture according to the GHS (Global Harmonized System)

GHS LABEL ELEMENTS

HAZARD PICTOGRAM (S) / SYMBOL (S): No Hazard Symbol required

SIGNAL WORD: Warning

HAZARD STATEMENT: **PHYSICAL / CHEMICAL HAZARDS**
No significant hazards

HEALTH HAZARDS

Potential health effects and primary route of entry could be on skin and eyes. High-pressure application under skin may cause damage. Kindly refer to Section 4 under First Aid Measures

ENVIRONMENTAL HAZARDS

No significant hazards

PRECAUTIONARY STATEMENT:

SAFETY

Keep out of children reach

HANDLING & STORAGE

Kindly refer to Section 7.0

DISPOSAL

Kindly refer to Section 13.0

NOTE: This material should not be used for any other purpose than the intended use stated in Section 1.0 without expert advice. This product, as with many petroleum products and chemical exposure, may cause potential health risks e.g. skin, eye and lung irritation, but good hygienic

practices can minimize these effects. Not classified as flammable but will burn.

SECTION 3.0	COMPOSITION / INFORMATION ON INGREDIENTS
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Mixture:

Chemical Name	Cas Number	Percentage %
1-Decene, homopolymer, hydrogenated	68037-01-4	60 - 80
Polyol ester	Confidential	>5
Zinc alkyl dithiophosphate	84605-29-8	<1
Calcium branched alkyl phenate sulphide	Confidential	0.1 - 1
Other Proprietary	Confidential	Mixture

Additional Information: Products containing highly refined mineral base oil contains less than 3% (w/w) DMSO-extract, according to IP346

Other Information: No Reportable Complex Substance(s)

SECTION 4.0	FIRST AID MEASURES
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General advice: Not expected to be a health hazard when used under normal condition but may effects of over exposure

Eye Contact: Minor Irritation and redness. Flush eyes immediately with clean, cool water for 15 minutes. Seek medical attention immediately.

Skin Contact: Wipe off excess with cloth or towel. Wash skin thoroughly with soap and water. If irritation develops and persists, consult physician.

Inhalation: Product is non-volatile. However, if heated may be irritating to upper respiratory system. Remove to fresh air.

Chronic Effects of Overexposure: Repeated overexposure may lead to dryness and cracking of skin.

Emergency and First Aid Procedure

Swallowing: If swallowed, give 2 glasses of water. Do not induce vomiting. Do not give anything to drink if unconscious. Seek medical attention.

SECTION 5.0	FIRE FIGHTING MEASURES
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EXTINGUISHING MEDIA

Advisable extinguishing media: Use water spray, dry chemical, carbon dioxide or foam.

Not advisable extinguishing media: Straight stream of water

FIRE FIGHTING

Fire Fighting Instructions: Products of combustion may contain carbon monoxide, carbon dioxide, and other toxic materials. Do not enter enclosed or confined space without proper protective equipment including respiratory protection.

FLAMMABILITY PROPERTIES

Flash Point (Method): Refer to Section 9.0
Flammable Limits: UEL & LEL----Not Determined.
Auto-ignition Temperature: Not Determined.

SECTION 6.0 ACCIDENTAL RELEASE MEASURES

PROTECTIVE MEASURES

Avoid contact with skin and eyes. Keep out of children reach. Do not ingest, if this should occur, seek immediate medical attention. Keep container sealed when not in use. Keep away from heat and open flame. Eliminate all sources of ignition in vicinity of spilled material.

SPILL MANAGEMENT

Scrape up with shovels and deposit into a suitable containers for recycle or disposal.

REPORTING

Report spills to local authorities as appropriate or required.

SECTION 7.0 HANDLING AND STORAGE

HANDLING

Do not breathe vapors and mists. Avoid direct or prolonged contact with skin and eyes.

STORAGE PRECAUTIONS

Store in a cool, dry area out of direct sunlight. Store in tightly closed containers. Store in well ventilated, away from combustible material, away from ignition sources.

Stirring is recommended in order to prevent ingredients from separating.

SECTION 8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

GENERAL CONSIDERATION

Limits/standards shown for guidance only. Follow applicable regulations.

ENGINEERING CONTROLS

Not normally required under ordinary conditions of use and with adequate ventilation.

PERSONAL PROTECTION

Skin Protection: Wear appropriate clothing to minimize skin contact with this product.

Eye Protection: Safety glasses are recommended.

Respiratory Protection: None normally required except under unusual circumstances such as described under fire fighting measures.

Work Practice Controls: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:
(1) Do not store, use, and / or consume goods, beverages, tobacco products.

(2) Wash hands and face carefully before eating, drinking.

Wash exposed skin promptly to remove accidental splashes of contact with materials

ENVIRONMENTAL CONTROLS

Comply with applicable environmental regulations limiting discharge to air, water and soil. Protect environment by applying appropriate control measures to prevent or limit emissions.

SECTION 9.0 PHYSICAL AND CHEMICAL PROPERTIES

NOTE: Information given below are based on typical values and do not constitute a specification.

Appearance:	Liquid at room temperature
Colour:	Blue
Odor:	Petroleum odor
pH:	Not determined
Pour point:	-50°C / -58°F and below
Boiling / Melting point:	No Data
Flash point:	>200°C / 392°F
Specific Gravity/Density:	0.840 to 0.848
Vapor Pressure (mm Hg):	Not determined
Vapor Density (air = 1):	Not determined
Percentage of Volatile:	Not determined
Evaporate rate (=1):	Not determined
Solubility in water:	Not determined

SECTION 10.0 STABILITY AND REACTIVITY

Reactivity:	Under normal conditions of storage and use, hazardous reactions will not occur.
Stability:	Product is stable under normal temperature and pressure.
Conditions to avoid:	Avoid contact with excessive heat.
Polymerization:	Polymerization will not occur.
Decomposition:	Normal combustion forms carbon dioxide; incomplete combustion may produce carbon monoxide.

SECTION 11.0 TOXICOLOGICAL INFORMATION

Animal Data:	Mouse skin painting studies have shown that highly solvent-refined petroleum distillates similar to ingredients in this product have not caused skin tumors.
Serious Eye Damage/Irritation:	Unlikely to cause more than transient stinging or redness if accidental eye contact occur.

Skin Corrosion/Irritation: Unlikely to cause harm to the skin on brief or occasional contact however prolonged or repeated exposure may lead to dermatitis.

Respiratory or Skin Sensitization: This product is not expected to be a skin sensitizer but prolonged or repeated exposure may lead to dermatitis.

Acute Dermal Toxicity: Expected to be of low toxicity.

Acute Oral Toxicity: Expected to be of low toxicity.

Acute inhalation Toxicity: Not consider being inhalation toxicity under normal conditions of use.

Germ cell mutagenicity: Not consider a mutagenic hazard.

Carcinogenicity: Not expected to cause cancer.

Reproductive toxicity: Not expected to impair fertility and not expected to be a development toxicant.

Specific target organ toxicity: Single exposure
(STOT) Not expected to be a hazard
Repeated exposure
Not expected to be a hazard

Aspiration toxicity: Not considered an aspiration hazard

SECTION 12.0 ECOLOGICAL INFORMATION

ECOTOXICITY

No specific aquatic data available for this product.

MOBILITY

No data available.

PERSISTENCE AND DEGRADABILITY

This product is not expected to be readily biodegradable. The biodegradability of this particular product is based on an evaluation of data for the component or a similar material.

POTENTIAL TO BIOACCUMULATE

Some of the component has the potential to bioaccumulate e.g. base oil but metabolism or physical properties may reduce the bioconcentration or limit bioavailability.

SECTION 13.0 DISPOSAL CONSIDERATION

Waste Management Information: Dispose of in accordance with all applicable local, state or country regulations and is highly NOT recommended to contaminate soil or ground water, or be disposed of into the environment.

Contaminated packaging: Dispose of in accordance with all applicable local, state or country regulations

SECTION 14.0	TRANSPORT INFORMATION
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Hazard Class:	None
Required Label(s):	None
Land (DOT):	Not regulated as dangerous goods for land transport
Land (TDG):	Not regulated as dangerous goods for land transport
Sea (IMDG):	Not regulated as dangerous goods for sea transport
Air (IATA):	Not regulated as dangerous goods for air transport

SECTION 15.0	REGULATORY INFORMATION
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No information is available.

SECTION 16.0	OTHER INFORMATION
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To the best of our knowledge, this information contained herein is accurate and reliable. However, we do not assume any liability for the consequences of its use since the information may be applied under conditions that are beyond our control. Final determination of the suitability of any material is the sole responsibility of the user.

Prepared By:	Toyo Grease Manufacturing (M) Sdn Bhd (493107-V)
Issued Date:	1 st June 2017
Updated:	20 th February 2024