MATERIAL SAFETY DATA SHEET

KunLun TianXie SG Four Stroke Motorcycle Oil

Version: A2 **Release Date: January 25th, 2018**

SECTION 1 PRODUCT AND COMPANY IDENTIFICATION

Product Name: TianXie four stroke motorcycle oil SG 10W-30/10W-40/15W-40/5W-30
Product Type: Engine Oil（GB/T 7631）
Trade Name: KunLun TianXie SG
Recommended Use: Four Stroke Motorcycle
Service Call:400-810-3000 800-810-3001
Website: http://www.kunlunlube.com.cn
Manufacturer: Petro China Lubricant Company
Address:17/F Building A , Petro China KunLun Plaza, No.8TaiyanggongJinxingyuan,Chaoyang District Beijing, China
Fax:0086-10-63592290
Emergency Call:0086-10-62095168

SECTION 2 HAZARDS IDENTIFICATION

This Product is Class B Combustible Liquid according to National Standard "Fire Prevention Code of Petro-Chemical Enterprise Design".
This product is not classified as dangerous goods according to"List of Dangerous Goods"(GB12268).The product does not exist the unpredictable risk under normal condition of use.
Physical / chemical hazard class: Not classified as hazardous waste.
Health risk categories: no significant hazards.
Health hazards: This product may generate oil mist to cause skin and eye irritation, excessive exposure to liquid and oil mist may cause respiratory irritation and damage, and aggravate existing asthma and other respiratory diseases. The inadvertent large amounts are ingested severe damage to the digestive system; it is timely to take rescue measures.
Environmental Hazards: Be harmful to the environment, should prevent the pollution of soil, water.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

This material is defined as a mixture.
Generic Composition: Severe treat min. oils & additives

Hazardous Substance(s) or Complex Substance(s) required for disclosure

Name	CAS#	Concentration*
Refined Base Oil	64742-54-7	>80%
Highly Refined Mineral Oil(c15-c50)	privately-owned	<18.3%
Zinc Dialkyl Dithiophosphate	68649-42-3	< 1.1%
Branched alkyl phenol and one chain alkyl phenol calcium	74499-35-7&132752-19-3	< 0.1%
Aromatic amine compound	privately-owned	< 0.5%

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION 4 FIRST AID MEASURES

INHALATION: Remove from further exposure. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or use mouth-to-mouth resuscitation.
SKIN CONTACT: Wash contact areas with soap and water. If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.
EYE CONTACT: Immediately open the upper and lower eyelids, Flush thoroughly with water and physiological saline. If irritation occurs, get medical assistance.
INGESTION: First aid is normally not required. Seek medical attention if discomfort occurs.

SECTION 5 FIRE FIGHTING MEASURES

Risk Characteristics: Flash Point ＞200℃, can cause combustion by fire, high temperature or oxidant.
Hazardous Combustion Products:CO/CO_2/Sulfide/ Suspended Solid Particles and Complex Combustion Mixture
Fire Fighting Instructions: Firefighters are required to wear gas masks and firefighting suits, Put out fire downwind. Take containers away from the scene to empty Department. Evacuate immediately when color change of containers or sound from the pressure relief safety devices.
Extinguishing Media: Dry chemical, carbon dioxide (CO_2), foam or sand. Do not use a direct stream of water

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency Treatment: When a leak is discovered, immediately cut off the source of fire, isolate combustible. After risk assessment, organize contaminated areas personnel to a safe area if necessary. Must wear personal safety protection equipment when cleaning leakage and should pay attention to prevent secondary disasters such as personal injury and environmental pollution during emergency rescue.
A small leak: collecting leaking liquid in a sealed containers much as possible, use sand, activated carbon or other inert materials to absorb the residue. Can also use non-flammable dispersant is made of latex to wash, lotion needs harmless disposal.
Large Leak: briefing to the relevant departments according to the degree of risk. Build a causeway or trenching asylum. Transferred to a sealed container with a pump and recycling or shipped to waste disposal sites.

SECTION 7 HANDLING AND STORAGE

Handling Precautions: comply with the fire safety design specification requirements when using this product and avoid excessive oil mist generated during the operation. The operator should be subject to fire safety training, equipped with the necessary labor protective equipment to avoid inhalation of oil mist, eliminate leakage of production and operating equipment and avoid slipping.
Storage Note: This product should be sealed storage, stored in a cool, dry, ventilated place, away from open flames and high temperature heat, strong oxidants and flammable materials, to avoid mixing with water and impurities and other foreign matter. The storage area should be equipped with the necessary fire equipment, leakage processing equipment. Empty containers may still remain product, avoid heating, cutting, welding.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure limits: China has not established relevant standards.
Engineering Controls: No special requirements under ordinary conditions of use and with adequate ventilation
Eye Protection: If contact is likely, safety glasses with side shields are recommended.
Hand Protection: Wear suitableoil-resistant protective gloves made by Nitrile rubber or high quality PVC.
Skin and Body Protection: Wear protective clothing if there is a risk of skin contact andchange them frequently, or

when contaminated.
Respiratory Protection: use engineering controls to maintain adequate ventilation and avoid oil mist. If engineering controls do not maintain airborne contaminant concentrations at alevel which is adequate to protect worker health, an approved respirator may be appropriate. Recommend wearing purifying dust or mist particulate air-purifying respirators or self-contained breathing apparatus.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.
Appearance:Transparent Liquid
Odor: Characteristic, nonirritant
Density(kg/m^3, 20℃): 840-900
Flash Point (COC, ℃) : >200
Solubility: Insoluble in water, soluble in alcohols, ethers, ketones, grease, hydrocarbons, most of the organic solution

SECTION 10 STABILITY AND REACTIVITY

Stability: Stable at normal conditions
Avoid: Excessive highly oxidizing agents.
Avoid condition: Open flame, high heat resource
Hazardous: Product does not decompose at ambient temperatures.
Decomposition Products: Material does not decompose at ambient temperatures.
Decomposition Products: Polymerization will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.
Acute toxicity:
Oral (Rat): Studies available indicate oral and dermal LD50 s of >2000 mg/Kg which is considered as low acute toxicity.
Inhalation (Rat): Studies available indicate oral and dermal LC50 s of >10 mg/L which is considered as low acute toxicity.
Skin contact (Rabbit): Prolonged or repeated exposure may lead to defatting of the skinand subsequent irritation.
Eye contact (Rabbit): May cause redness and transient pain.
Respiratory tract, skin allergies and carcinogenicity: highly refined base oil is non-carcinogenic in animal experiments. However, oil deposition, inflammation and oil tumor animals will produce when animals are exposed to high concentrations of oil mist in the respiratory system. Oils in pyrolysis are mixed with waste oil may produce polycyclic aromatic compounds or pollutants caused by bacteria. May cause cancer or cause severe respiratory damage.
Germ cell mutagenicity : No data available
Reproductive toxicity: No data available

SECTION 12 ECOLOGICAL INFORMATION

The information given is based on data available for the material, the components of the material, and similar materials.
Ecotoxicity: Not expected to be harmful to aquatic organisms, but potential bioaccumulate may cause ecotoxicity.
Mobility: Non-volatilized liquid, no oil mist pollution to air; Low solubility and floats and is expected to migrate from water to the land. Expected to partition with sediment and wastewater solids.
Persistence/degradability: The baseoil is expected to be inherently biodegradable with potential bioaccumulation.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Recommendations:Waste Mineral Oils listed in HW08 of “National Catalogue of Hazardous Wastes”

Regulatory Disposal Information: Comply with local laws and regulations. If possible, should be entrusted with the appropriate qualified hazardous waste disposal agency for product recycling. Recommended as a boiler fuel under controlled conditionsand monitor the emission gases harmful substances of high-temperature combustion. Airtight container stored and the necessary identification when temporary saves.

SECTION 14 TRANSPORT INFORMATION

“List of Dangerous Goods”(GB12268):The product is not classified as 9 categories of hazardous goods
China / international transport regulations: Not Regulated for Land Transport
SEA (IMDG): Not Regulated for Sea Transport
AIR (IATA): Not Regulated for Air Transport

SECTION 15 REGULATORY INFORMATION

This product is not classified as dangerous goods, and therefore does not apply to the Chinese “Regulations on the Control over Safety of Dangerous Chemicals”,but as a flammable liquid should meet “Law of the People's Republic of China on Work safety”and“Fire Control Law of the People's Republic of China”when use, storage, transport, handling and other aspects.

Waste disposal should comply with the corresponding provisions of the “Environmental Protection Law of the People's Republic of China” and “Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Waste”the area environmental emissions standards.

Comply with the chemicals directory requirements of the following countries and regions: IECSC (China), DSL (Canada), EINECS (EU), on ENCS (Japan), KECI (Korea), PICCS (Philippines), TSCA (United States)and AICS (Australia).

SECTION 16 OTHER INFORMATION

This material safety data sheet is based on current knowledge and applicable laws and regulations, the description of the product from the health, safety and environmental requirements, having possibility of amendments to update existing reference standards and testing data.

The data and recommendations provided by the material Safety Data Sheet are only apply to this product. In addition to the prescribed use, China Petroleum oil company will not be held responsible due to failure to follow recommended any damage or injury caused by the views,. Users can get additional information by the sales department and technical service department.

Safety Data Sheet

Product identifier used on the label: STARFIRE AW Hyrdaulic Oil
Revision Date: 09-08-2021
Replaces: 08-28-2021

1. Identification

Product identifier used on the label: **STARFIRE AW 22, 32, 46, 68, 100, 220**

Other means of identification:
Synonyms: No data available

Recommended use of the chemical and restrictions on use:
Recommended use: Hydraulic Oil

Restrictions on use: Uses other than those described above

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party:
Coolants Plus Inc.
2570 Van Hook Ave
Hamilton, OH 4501

Phone number: +01 (888) 258-8723

E-mail address: andrewz@coolantsplus.com

Emergency phone number: CHEMTREC: +1 (800) 424-9300 International: +01 (703) 527-3887

2. Hazard(s) identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200:

GHS Classification: Not classified as hazardous under OSHA

Hazards not otherwise classified: No data available

3. Composition/information on ingredients

Chemical Name	Common name and synonyms	CAS #	%
Petroleum distillates, hydrotreated heavy paraffinic	No data available	64742-54-7	80 - 100
2,6-Di-tert-butylphenol	No data available	128-39-2	0.1 - 1

One or more hazardous ingredient(s) is claimed as a trade secret under the OSHA Hazard Communication Standard. The hazards of this (these) ingredient(s) are given on this SDS.

4. First-aid measures

Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion:

Inhalation:	Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen.
Eye Contact:	None expected to be needed, however, use an eye wash to remove a chemical from your eye regardless of the level of hazard.
Skin Contact:	Wash with soap and water. Get medical attention if irritation develops or persists.
Ingestion:	No hazard in normal industrial use. Do not induce vomiting. Seek medical attention if symptoms develop. Provide medical care provider with this SDS.
Most important symptoms/effects, acute and delayed:	No data available
Indication of immediate medical attention and special treatment needed, if necessary:	No additional first aid information available.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media:

Suitable extinguishing media:	Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.
Unsuitable extinguishing media:	No data available
Specific hazards arising from the chemical:	Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.
Hazardous combustion products:	Carbon dioxide, Carbon monoxide
Special protective equipment and precautions for fire-fighters:	Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	No health affects expected from the clean up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this SDS.

Methods and materials for containment and cleaning up: Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

7. Handling and storage

Precautions for safe handling: No special handling instructions due to toxicity. Follow all protective equipment recommendations provided in Section 8.

Conditions for safe storage, including any incompatibilities:

Safe storage conditions: Store in a cool dry place. Isolate from incompatible materials.

Materials to Avoid/Chemical Incompatibility: Strong oxidizing agents

8. Exposure controls/personal protection

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available:

Chemical component	OSHA PEL	ACGIH TLV	ACGIH STEL	IDLH	US WEEL
Petroleum distillates, hydrotreated heavy paraffinic	5 mg/m3 TWA	5 mg/m3 TWA	10 mg/m3 STEL	No data available	No data available

Appropriate engineering controls: Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Individual protection measures, such as personal protective equipment:

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye protection: Wear safety glasses when handling this product if there is a likelihood of

	contact with eyes.
Skin protection:	Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves:	Neoprene, Nitrile
General hygiene conditions:	Follow all protective equipment recommendations provided in Section 8.

9. Physical and chemical properties

Appearance (physical state, color etc.):	
Physical state:	Liquid
Color:	Amber
Odor:	MildPetroleum
Odor Threshold:	Not determined
pH:	No data available
Melting point/freezing point:	
Melting Point:	No data available
Freezing point:	No data available
Initial boiling point and boiling range (°C):	No data available
Flash Point (°C):	210
Evaporation Rate:	No data available
Flammability (solid, gas):	No data available
Upper/lower flammability or explosive limits:	
Upper flammability or explosive limits:	Not established
Lower flammability or explosive limits:	Not established
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	0.86
Solubility(ies):	Negligible; 0-1%
Partition coefficient: n-octanol/water:	No data available

Auto-ignition temperature:	No data available
Decomposition Temperature:	Not determined
Viscosity:	32.11

10. Stability and reactivity

Reactivity:	There are no known reactivity hazards associated with this product.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	None expected under standard conditions of storage.
Conditions to avoid (e.g., static discharge, shock, or vibration):	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation).
Incompatible materials:	Strong oxidizing agents
Hazardous decomposition products:	No data available

11. Toxicological information

Description of the various toxicological (health) effects and the available data used to identify those effects:

Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact):	Skin contact, Inhalation, Ingestion, Eye contact
Symptoms related to the physical, chemical and toxicological characteristics:	No data available

Delayed and immediate effects and also chronic effects from short- and long-term exposure:

Ingestion:	No hazard in normal industrial use. Estimated to be > 5.0 g/kg.
Skin Contact:	Likely to be non-irritating to skin based on animal data.
Absorption:	Estimated to be > 5.0 g/kg; practically non-toxic
Inhalation:	No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
Eye Contact:	This material is likely to be non-irritating to eyes based on animal data.
Sensitization:	Non-hazardous under Respiratory Sensitization category.No data available to indicate product or components may be a skin sensitizer.
Mutagenicity:	No data available to indicate product or any components present at

	greater than 0.1% is mutagenic or genotoxic.
Carcinogenicity:	Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.
Reproductive toxicity	Not known or reported to cause reproductive or developmental toxicity.
STOT-single exposure:	Based on available data, the classification criteria are not met.
STOT-repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	Based on available data, the classification criteria are not met.
Other information:	None known.

Numerical measures of toxicity (such as acute toxicity estimates):

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
2,6-Di-tert-butylphenol	Oral LD50 Rat > 5000 mg/kg	Dermal LD50 Rabbit > 10000 mg/kg	
Petroleum distillates, hydrotreated heavy paraffinic	Oral LD50 Rat > 15000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	

Is the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA:

Chemical Name	OSHA Carcinogen	IARC Carcinogen	NTP Carcinogen
There are no components that are known or reported to cause cancer.			

12. Ecological information

Ecotoxicity (aquatic and terrestrial, where available): Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.

Ecological Toxicity Data:

Chemical Name	CAS #	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
2,6-Di-tert-butylphenol	128-39-2	EC50 (48h) Daphnia magna 0.45 mg/L	No data available	No data available
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	EC50 (48h) Daphnia magna > 1000 mg/L	No data available	LC50 (96h) Rainbow Trout > 5000 mg/L

Persistence and degradability:	Biodegrades slowly.
Bioaccumulative potential:	Bioconcentration may occur.
Mobility in soil:	This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.
Other adverse effects (such as hazardous to the ozone layer):	None known.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging:	Spent or discarded material is non-hazardous according to environmental regulations.
Contaminated packaging:	Recycle containers whenever possible.

14. Transport information

Carriage of dangerous goods by road (DOT), rail or inland waterways:

DOT Basic Description:	Not regulated for road transport

International carriage of dangerous goods by sea (IMDG/IMO):

UN number:	Not regulated by IMDG
UN Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group, if applicable:	Not applicable

International carriage of dangerous goods by air (IATA):

UN number:	Not regulated by IATA
UN Proper shipping name:	Not applicable
Transport hazard class(es):	Not applicable
Packing group, if applicable:	Not applicable

Environmental hazards (e.g., Marine pollutant (Yes/No)):	None.

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):	No data available
Special precautions which a user needs to be aware of or needs to comply with in connection with transport or conveyance either within or outside their premises:	No data available

15. Regulatory information

Safety, health and environmental regulations specific for the product in question:

TSCA Status: All components of this material are on the Active US TSCA Inventory or are exempt.

Regulated Components:

Chemical Name	CAS #	CERCLA	Sara EHS	Sara 313	U.S. HAP
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N
2,6-Di-tert-butylphenol	128-39-2	N	N	N	N

Chemical Name	CAS #	California Prop 65 - Cancer	California Prop 65 - Dev. Toxicity	California Prop 65 - Reprod fem	California Prop 65 - Reprod male
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N
2,6-Di-tert-butylphenol	128-39-2	N	N	N	N

California Prop 65

No ingredient(s) requiring a warning under California Prop 65.

Chemical Name	CAS #	Massachusetts RTK List	New Jersey RTK List	Pennsylvania RTK List	Rhode Island RTK List	Minnesota Hazardous Substance List
Petroleum distillates, hydrotreated heavy paraffinic	64742-54-7	N	N	N	N	N

2,6-Di-tert-butylphenol	128-39-2	N	N	N	N	N

16. Other information, including date of preparation or last revision.

SDS Prepared by: MCHONGOOFAFA

Revision Date: 09-08-2021

Revision Number: 15

Reason for revision: Activated by Document Formulation Generation

References: No data available

Other Info: No data available

Disclaimer: This safety data sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in the data sheet which we have received from outside sources and we believe the information to be correct, but cannot guarantee its accuracy or completeness. Health and safety precautions in this data sheet may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product in a safe manner and to comply with all applicable laws and regulations. No statement made in this data sheet shall be construed as permission or recommendation for the use of any product in a manner that might infringe existing patents. No warranty is made, either expressed or implied.