SAFETY DATA SHEET

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Ultra1Plus™ SAE 75W-90 Full Synthetic, API GL-5

Product Use: Gear Oil
Synonyms: Lubricating Oil
Product description: Base oil and additives

Product Presentation	Product Number	Product UPC
1.05 Quart / 1 Liter	UFS7590GL5L	810050654142
US Gallon (4 Quarts) / 3.78 Liters	UFS7590GL5G	810050654135

Company Identification:

Ultrachem LLC
1444 Northwest 82 Ave.
Doral, FL. 33126 USA
Phone +1 (786) 953 - 6132
www.ultra1plus.com

U1Dynamics Manufacturing LLC
4468 Genoa-Red Bluff Rd.
Houston, TX. 77059 USA
Phone +1 (786) 953 - 6132

Transportation Emergency Response
CHEMTREC: (800) 424-9300 or (703) 527-3887

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification:

Eye irritation: Category 2A
Skin sensitization: Category 1

GHS label elements:

Hazard pictograms:

Signal Word: Warming
Hazard Statements: May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary Statements:

Prevention:
Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
Wash skin thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear protective gloves/ eye protection/ face protection.

Response:
IF ON SKIN: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Removes contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/ attention.
If eye irritation persists: Get medical advice/ attention.
Wash contaminated clothing before reuse.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards: None known.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Chemical name	CAS-No	Conc. (% w/w)	US GHS Classification
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	75.49	Asp. Tox. 1: H304
Polysulfides, di-tert-Bu	68937-96-2	3.68	Skin Sens. 1B: H317
Mineral Oil	8042-47-5	20.83	

SECTION 4: FIRST AID MEASURES

General advice: Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled: If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact: Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
Wash contaminated clothing before re-use.

In case of eye contact: Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Protect unharmed eye

If swallowed:	Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician
Most important symptoms and effects, both acute and delayed:	Acute aspiration of large amounts of oil-laden material may produce a serious aspiration pneumonia. Patients who aspirate these oils should be followed for the development of long-term sequelae. Repeated aspiration of small quantities of mineral oil can produce chronic inflammation of the lungs (i.e. lipoid pneumonia) that may progress to pulmonary fibrosis. Symptoms are often subtle and radiological changes appear worse than clinical abnormalities. Occasionally, persistent cough, irritation of the upper respiratory tract, shortness of breath with exertion, fever, and bloody sputum occurs. Inhalation exposure to oil mists below current workplace exposure limits is unlikely to cause pulmonary abnormalities. Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: acne, stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways). May cause an allergic skin reaction. Causes serious eye irritation.
Notes to physician:	No hazards which require special first aid measures.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use water fog, foam, dry chemical, or carbon dioxide (CO2) to extinguish flames.

PROTECTION OF FIRE FIGHTERS:

Fire Fighting Instructions: This material will burn although it is not easily ignited. See Section 7 for proper handling and storage. For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment, including self-contained breathing apparatus.

Combustion Products: Highly dependent on combustion conditions. A complex mixture of airborne solids, liquids, and gases including carbon monoxide, carbon dioxide, and unidentified organic compounds will be evolved when this material undergoes combustion. Combustion may form oxides of: Nitrogen.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Protective Measures: Eliminate all sources of ignition in vicinity of spilled material.

Spill Management: Stop the source of the release if you can do it without risk. Contain release to prevent further contamination of soil, surface water or groundwater. Clean up spill as soon as possible, observing precautions in Exposure Controls/Personal Protection. Use appropriate techniques such as applying non-combustible absorbent materials or pumping.

Where feasible and appropriate, remove contaminated soil. Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations.

Reporting: Report spills to local authorities

SECTION 7: HANDLING AND STORAGE

Advice on safe handling:	Do not breathe vapors/dust. Do not smoke. Persons susceptible to skin sensitization problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used. Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage:	Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters:

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
WHITE MINERAL OIL	8042-47-5	TWA	5 mg/m3 Mist	OSHA Z-1
		TWA	5 mg/m3 Inhalable fraction	OCGIH
		TWA	5 mg/m3 Mist	OSHA P0
		TWA	5 mg/m3 Mist	NIOSH REL
		ST	10 mg/m3 Mist	NIOSH REL
		PEL	5 mg/m3 particulate	CAL PEL

Hazardous components without workplace control parameters

Components	CAS-No.
Engineering measures:	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.
Personal protective equipment	
Respiratory protection:	A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.
Hand protection remarks:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection:	Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection:	Wear as appropriate: Impervious clothing. Safety shoes. Choose body protection according to the amount and concentration of the dangerous substance at the workplace. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment supplier).
Hygiene measures:	Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid
Odour : mild
Odour Threshold : No data available
pH : No data available
Melting point/freezing point : No data available
Boiling point/boiling range : No data available
Flash point : > 390 °F / > 199 °C
Method: Closed cup test (CC)
Evaporation rate : No data available
Flammability (solid, gas) : No data available
Upper explosion limit : 6 %(V)
Calculated Explosive Limit
Lower explosion limit : 1 %(V)
Calculated Explosive Limit
Vapour pressure : 1.3333333 hPa (20 °C)
Calculated Vapor Pressure
Relative vapour density : No data available
Relative density : No data available
Density : 0.86 g/cm3 (15.56 °C)
Solubility(ies):
    Water solubility : No data available
    Solubility in other solvents : No data available
Partition coefficient: n-octanol/water: No data available
Thermal decomposition : No data available
Viscosity, dynamic : No data available
Viscosity, kinematic : 100 mm2/s (40 °C)
Oxidizing properties : No data available

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	No decomposition if stored and applied as directed.
Chemical stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	Product will not undergo hazardous polymerization.
Conditions to avoid:	None known.
Incompatible materials:	Strong oxidizing agents.
Hazardous decomposition products:	Aldehydes. Carbon dioxide and carbon monoxide. Hydrocarbons. hydrogen sulfide Nitrogen oxides (NOx) Sodium oxides Sulphur oxides

SECTION 11: TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:	Inhalation Skin contact Eye Contact Ingestion

Acute toxicity: Not classified based on available information.

Components:

Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Acute oral toxicity:	LD50 (Rat): > 15 g/kg
Acute dermal toxicity:	LD50 (Rabbit): > 5 g/kg

OLEFINSULFIDE:

Acute oral toxicity:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401 Assessment: Not classified as acutely toxic by ingestion under GHS. Remarks: No mortality observed at this dose.
Acute dermal toxicity:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402 Assessment: Not classified as acutely toxic by dermal absorption under GHS. Remarks: No mortality observed at this dose.

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Acute oral toxicity: LD50 (Rat): ca. 2,000 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is classified as acute
oral toxicity, category 4.

Skin corrosion/irritation: Not classified based on available information.
Product: Remarks: May cause skin irritation in susceptible persons.
Components:
Distillates (Petroleum), Hydrotreated Heavy Paraffinic:
Result: Slight, transient irritation.

OLEFINSULFIDE: Result: Mild skin irritation

Serious eye damage/eye irritation: Causes serious eye irritation.
Product:
Remarks: Vapors may cause irritation to the eyes, respiratory system, and the skin., Causes serious eye irritation.
Components:
Distillates (Petroleum), Hydrotreated Heavy Paraffinic:
Result: No eye irritation.

OLEFINSULFIDE: Result: Slight, transient irritation

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):
Result: Corrosive

Respiratory or skin sensitization:
Skin sensitization: May cause an allergic skin reaction.
Respiratory sensitization: Not classified based on available information.
Components:
OLEFINSULFIDE:
Test Type: Maximisation Test
Species: Guinea pig
Assessment: The product is a skin sensitiser, sub-category 1B.
Method: OECD Test Guideline 406

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):
Test Type: Local lymph node assay
Species: Mouse
Method: OECD Test Guideline 429
Result: May cause sensitisation by skin contact.

Germ cell mutagenicity
Not classified based on available information.
Components:
OLEFINSULFIDE:

Genotoxicity in vitro:	Test Type: in vitro assay Result: Positive results were obtained in some in vitro tests.
Genotoxicity in vivo:	Test Type: Micronucleus test Test species: Mouse Cell type: Bone marrow Method: OECD Test Guideline 474 Result: negative

Carcinogenicity: Not classified based on available information.
Reproductive toxicity: Not classified based on available information.
STOT - single exposure: Not classified based on available information.
STOT - repeated exposure: Not classified based on available information.
Aspiration toxicity: Not classified based on available information.
Components:
Distillates (Petroleum), Hydrotreated Heavy Paraffinic: May be fatal if swallowed and enters airways.
Mineral Oil: May be fatal if swallowed and enters airways.

Further information:
Product:
Remarks: No data available

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

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity
Product:
Ecotoxicology Assessment

Acute aquatic toxicity:	Not classified based on available information.
Chronic aquatic toxicity:	Not classified based on available information.

Components:
Distillates (Petroleum), Hydrotreated Heavy Paraffinic:

Toxicity to fish:	LL50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates:	EL50 (Aquatic invertebrates): > 10,000 mg/l Exposure time: 48 h
Toxicity to algae:	EL50 (Algae, algal mat (Algae)): > 100 mg/l Exposure time: 72 h
Toxicity to fish (Chronic toxicity):	NOEC (Fish): 10 mg/l
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC (Aquatic invertebrates): 10 mg/l

OLEFINSULFIDE:
Ecotoxicology Assessment

Acute aquatic toxicity:	Harmful to aquatic life.
Chronic aquatic toxicity:	Harmful to aquatic life with long lasting effects.

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Toxicity to fish:	LL50 (Oncorhynchus mykiss (rainbow trout)): ca. 24 mg/l Exposure time: 96 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates:	EL50 (Water flea (Daphnia magna)): ca. 91.4 mg/l Exposure time: 48 h Test Type: static test Test substance: WAF Method: OECD Test Guideline 202
Toxicity to algae:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 15 mg/l End point: Growth inhibition Exposure time: 96 h Test Type: static test Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity):	NOEC (Water flea (Daphnia magna)): 0.12 mg/l Exposure time: 21 d End point: Reproduction Test Test Type: semi-static test Test substance: WAF Method: OECD Test Guideline 211
Ecotoxicology Assessment	Toxic to aquatic life.
Acute aquatic toxicity:	
Chronic aquatic toxicity:	Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

OLEFINSULFIDE:

Biodegradability:	Result: Not readily biodegradable. Biodegradation: 13 % Exposure time: 28 d Method: OECD Test Guideline 301B

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Biodegradability:	Result: Not readily biodegradable. Biodegradation: 7.4 % Exposure time: 28 d Method: Modified Sturm Test

Components:

Bioaccumulative potential

React. prod. of bis(2-methylpentan-2-yl)dithiophosphoricacid + phosphorus oxide, propylene oxide and amines, C12-14-alkyl (branched):

Partition coefficient: n-octanol/water:	Remarks: No data available

Mobility in soil

Components:

No data available

Other adverse effects

Additional ecological information:	No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Use material for its intended purpose or recycle if possible. Oil collection services are available for used oil recycling or disposal. Place contaminated materials in containers and dispose of in a manner consistent with applicable regulations. Contact your sales representative or local environmental or health authorities for approved disposal or recycling methods.

SECTION 14: TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.

U.S. DOT - ROAD

Not dangerous goods

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods	MARINE POLLUTANT: (DI-TERT-BUTYL POLYSULFIDE)

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX-DG

Not dangerous goods

***ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant		NO

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: REGULATORY INFORMATION

EPCRA – Emergency Planning and Community Right-to-Know Act
CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
METHANOL	67-56-1	5000	*

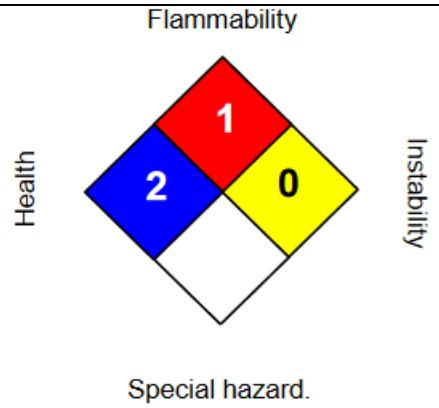
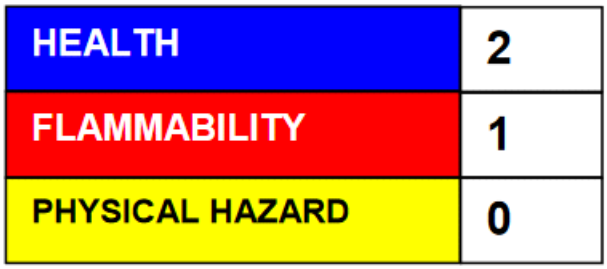
*: Calculated RQ exceeds reasonably attainable upper limit.

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards: Acute Health Hazard
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
California Prop 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.
The components of this product are reported in the following inventories:
DSL : All components of this product are on the Canadian DSL
AICS : On the inventory, or in compliance with the inventory
ENCS : On the inventory, or in compliance with the inventory
KECI : On the inventory, or in compliance with the inventory
PICCS : On the inventory, or in compliance with the inventory
IECSC : On the inventory, or in compliance with the inventory
TSCA : On TSCA Inventory
Inventories
AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA).

SECTION 16: OTHER INFORMATION

Further information
Revision Date: 07/17/2017

NFPA:	HMIS III:
	

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

NFPA Flammable and Combustible Liquids Classification
Combustible Liquid Class IIIB

Full text of H-Statements
H227 Combustible liquid.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

Revision Date: August 27, 2018

ABBREVIATIONS THAT MAY HAVE BEEN USED IN THIS DOCUMENT:

TLV - Threshold Limit Value	TWA - Time Weighted Average
STEL - Short-term Exposure Limit	PEL - Permissible Exposure Limit
GHS - Globally Harmonized System	CAS - Chemical Abstract Service Number
ACGIH - American Conference of Governmental Industrial Hygienists	IMO/IMDG - International Maritime Dangerous Goods Code
API - American Petroleum Institute	SDS - Safety Data Sheet
HMIS - Hazardous Materials Information System	NFPA - National Fire Protection Association (USA)
DOT - Department of Transportation (USA)	NTP - National Toxicology Program (USA)
IARC - International Agency for Research on Cancer	OSHA - Occupational Safety and Health Administration
NCEL - New Chemical Exposure Limit	EPA - Environmental Protection Agency
SCBA - Self-Contained Breathing Apparatus	

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.