

Z773

Fully Synthetic FG Gear Lube MSDS (08-03-2013)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: FULLY SYNTHETIC FG GEAR LUBE ISO VG 460
PRODUCT DESCRIPTION: SYNTHETIC PAO WHITE FOODGRADE OIL
PRODUCT CODE: Z773
INTENDED USE: SEVERE GEAR APPLICATIONS FOR FOOD INDUSTRY
COMPANY IDENTIFICATION: Assawayer Trading Co. Ltd.,
P. O. Box 11309
Jubail Industrial City 31961
Kingdom of Saudi Arabia
Tel: +966-(0)3-341-2125
Fax: +966-(0)3-341-7209
E-mail: info@assawayer.com
EMERGENCY PHONE: +966 – 3 – 341 – 2125

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NUMBER	WEIGHT %
1-Decene homopolymer, hydrogenated (PAO)	68037-01-4	98 – 99.8
Proprietary Performance Package, Mixture	NE	< 2

The specific chemical names and composition of the components not disclosed is confidential business information and is withheld as permitted by 29CFR 1910.1200 and various Right-to-Know laws. This Product is not a WHMIS Controlled Substance.

SECTION 3: HAZARD IDENTIFICATION

This material is not considered to be hazardous according to regulatory guidelines. (See Section 15)

POTENTIAL HEALTH EFFECTS

Excessive exposure may result in eye, skin or respiratory irritation. Low order of toxicity. High-pressure injection under skin may cause serious damage.

NFPA Rating: Flammability: 1, Reactivity: 0, Health: 1

HMIS Rating: Flammability: 1, Reactivity: 0, Health: 1

NOTE: This material should not be used for any other purpose than the intended use listed in Section 1 without expert advice. Health studies have shown that chemical exposure may cause potential human health risks, which may vary from person to person.

SECTION 4: FIRST AID MEASURES

EYE CONTACT: Check for and remove contact lenses. Flush eyes with cool, clean, low-pressure water while occasionally lifting and lowering eyelids. Seek medical attention if excessive tearing, redness, or pain persists.

SKIN CONTACT: If burned by hot material, cool skin by quenching with large amounts of cool water. For contact with product at ambient temperatures, remove contaminated shoes and clothing. Wipe off excess material. Wash exposed skin with mild soap and water. Seek medical attention if tissue appears damaged or if pain or irritation persists. Thoroughly clean contaminated clothing before reuse. Clean or discard contaminated leather goods. If material is injected under the skin, seek medical attention immediately.

SECTION 4: FIRST AID MEASURES (continued)

INHALATION: Vaporization is not expected at ambient temperatures. This material is not expected to cause inhalation-related disorders under anticipated conditions of use. In case of overexposure, move the person to fresh air.

INGESTION: Do not induce vomiting unless directed to by a physician. Do not give anything to drink unless directed to by a physician. Never give anything by mouth to a person who is not fully conscious. If significant amounts are swallowed or irritation or discomfort occurs, seek medical attention immediately.

Notes to Physician: **SKIN:** In the event of injection in underlying tissue, immediate treatment should include extensive incision, debridement and saline irrigation. Inadequate treatment can result in ischemia and gangrene. Early symptoms may be minimal.

INGESTION: The viscosity range of the product(s) represented by this MSDS is greater than 100 SUS at 100°F. Careful gastric lavage may be considered to evacuate large quantities of material.

SECTION 5: FIRE AND EXPLOSION DATA

NFPA Flammability Classification	NFPA Class-IIIB combustible material.
Flash Point	Open cup: 276°C (529°F) (Cleveland).
Lower Flammable Limit	No data.
Upper Flammable Limit	No data.
Autoignition Temperature	No data.
Hazardous Combustion Products	Carbon dioxide, carbon monoxide, smoke, fumes, unburned hydrocarbons and oxides of sulfur and/or nitrogen.
Special Properties	This material will release vapors when heated above the flash point temperature that can ignite when exposed to a source of ignition. In enclosed spaces, vapors can ignite with explosive force. Mists or sprays may burn at temperatures below the flash point.
Extinguishing Media	Use dry chemical, foam, carbon dioxide or water fog. Water or foam may cause frothing. Carbon dioxide and inert gas can displace oxygen. Use caution when applying carbon dioxide or inert gas in confined spaces.
Protection of Fire Fighters	Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Take proper precautions to ensure your own health and safety before attempting spill control or clean-up. For more specific information, refer to the Emergency Overview, Exposure Controls and Personal Protection, and Disposal Considerations in Section 13 of this MSDS.

Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Slipping hazard; do not walk through spilled material. Stop leak if you can do so without risk. For small spills, absorb or cover with dry earth, sand, or other inert non-combustible absorbent material and

SECTION 6: ACCIDENTAL RELEASE MEASURES (continued)

place into waste containers for later disposal. Contain large spills to maximize product recovery or disposal. Prevent entry into waterways or sewers. In urban area, cleanup spill as soon as possible. In natural environments, seek cleanup advice from specialists to minimize physical habitat damage. This material will float on water. Absorbent pads and similar materials can be used. Comply with all laws and regulations.

SECTION 7: HANDLING AND STORAGE**HANDLING**

Avoid contamination and extreme temperatures to minimize product degradation. Empty containers may contain product residues that can ignite with explosive force. Do not pressurize, cut, weld, braze solder, drill, grind or expose containers to flames, sparks, heat or other potential ignition sources. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers and/or waste residues of this product.

STORAGE

Keep container closed. Store in a cool, dry, well-ventilated area. Do not store with strong oxidizing agents. Do not store at elevated temperatures. Avoid storing product in direct sunlight for extended periods of time. Consult appropriate federal, state and local authorities before reusing, reconditioning, reclaiming, recycling or disposing of empty containers or waste residues of this product.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION**ENGINEERING CONTROLS**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of mists and/or vapors below the recommended exposure limits (see below). An eye wash station and safety shower should be located near the work-station.

PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment should be selected based upon the conditions under which this material is used. A hazard assessment of the work area for PPE requirements should be conducted by a qualified professional pursuant to OSHA regulations. The following are minimum requirements for personal protective equipment.

Respiratory Protection: None required in normal use. The need for respiratory protection is not anticipated under normal use conditions and with adequate ventilation. If elevated airborne concentrations above applicable workplace exposure levels are anticipated, a NIOSH-approved organic vapor respirator equipped with a dust/mist prefilter should be used. Protection factors vary depending upon the type of respirator used. Respirators should be used in accordance with OSHA requirements (29CFR 1910.134).

Hand Protection: None required for incidental contact. Use gloves constructed of chemical resistant materials such as heavy nitrile rubber if frequent or prolonged contact is expected. Use heat-protective gloves when handling product at elevated temperatures.

Eye Protection: Safety glasses equipped with side shields are recommended as minimum protection in industrial settings. Wear goggles if splashing or spraying is anticipated. Wear goggles and face shield if material is heated above 125°F (51°C). Have suitable eye wash water available.

Body Protection: Use clean protective clothing if splashing or spraying conditions are present. Protective clothing may include long-sleeve outer garment, apron, or lab coat. If significant contact occurs, remove oil-contaminated clothing as soon as possible and promptly shower. Launder contaminated clothing before reuse or discard. Wear heat protective boots and protective clothing when handling material at elevated temperatures.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION (continued)

General Comments: Use good personal hygiene practices. Wash hands and other exposed skin areas with plenty of mild soap and water before eating, drinking, smoking, use of toilet facilities, or leaving work. **DO NOT** use gasoline, kerosene, solvents or harsh abrasives as skin cleaners. Since specific exposure standards/control limits have not been established for this product, the "Oil Mist, Mineral" exposure limits shown below are suggested as minimum control guidelines.

Occupational Exposure Guidelines

<u>Substance</u>	<u>Applicable Workplace Exposure Levels</u>	
Oil Mist, Mineral	ACGIH (United States)	TWA: 5 mg/m ³ 8 hour (s) STEL: 10 mg/m ³ 15 minute (s)
	OSHA (United States)	TWA: 5 mg/m ³ 8 hour (s)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Liquid
Color: Clear (Water White) to Light Amber
Odor: Mild petroleum odor
Specific Gravity (water = 1): 0.8545
Melting Point: NE
Boiling Point: NE
Flashpoint (Cleveland Open Cup): 276° C
Autoignition Temperature: NE
Volatility, weight % at 25C: Negligible
Evaporation Rate: Negligible
Vapor Pressure: < 1 mmHg at 20° C, < 0.01 kPa
Solubility In Water: Insoluble in cold water
Stability: Stable under normal conditions

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal temperatures and pressures
CONDITIONS TO AVOID: Excessive heat. Sources of ignition.
MATERIALS TO AVOID: Strong oxidizing agents, heat, open flame.
Hazardous Decomposition Products: Does not decompose at ambient temperatures.
Hazardous Polymerization: Does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

For other health-related information, refer to the Emergency Overview on Page 1 and the Hazards Identification in Section 3 of this MSDS. This product is not a primary skin irritant after exposure of short duration.

SECTION 11: TOXICOLOGICAL INFORMATION (continued)**Toxicity Data****1-Decene homopolymer, hydrogenated (PAO)****ORAL (LD50): Acute: >2000 mg/kg [Rat].****DERMAL (LD50): Acute: >2000 mg/kg [Rabbit].****Practically non-irritating to eyes. Practically non-irritating to the skin.****SECTION 12: ECOLOGICAL INFORMATION****ECOTOXICITY**

Analysis for ecological effects has not been conducted on this product. However, if spilled, this product and any contaminated soil or water may be harmful to human, animal, and aquatic life. Also, the coating action associated with petroleum and petroleum products can be harmful or fatal to aquatic life and waterfowl.

ENVIRONMENTAL FATE

An environmental fate analysis is not available for this specific product. Plants and animals may experience harmful or fatal effects when coated with petroleum products. Petroleum-based (mineral) lubricating oils normally will float on water. In stagnant or slow-flowing waterways, an oil layer can cover a large surface area. As a result, this oil layer might limit or eliminate natural atmospheric oxygen transport into the water. With time, if not removed, oxygen depletion in the waterway may be sufficient to cause a fish kill or create an anaerobic environment.

SECTION 13: DISPOSAL INFORMATION

Hazard characteristic and regulatory waste stream classification can change with product use. Accordingly, it is the responsibility of the user to determine the proper storage, transportation, treatment and/or disposal methodologies for spent materials and residues at the time of disposition.

Conditions of use may cause this material to become a "hazardous waste", as defined by federal or state regulations. It is the responsibility of the user to determine if the material is a "hazardous waste" at the time of disposal. Transportation, treatment, storage, and disposal of waste material must be conducted in accordance with RCRA regulations (see 40 CFR 260 through 40 CFR 271). State and/or local regulations may be more restrictive. Contact your regional US EPA office for guidance concerning case specific disposal issues. Empty drums and pails retain residue. **DO NOT** pressurize, cut, weld, braze, solder, drill, grind, or expose this product's empty container to heat, flame, or other ignition sources. **DO NOT** attempt to clean it. Empty drums and pails should be drained completely, properly bunged or sealed, and promptly sent to a reconditioner.

SECTION 14: TRANSPORT INFORMATION

LAND-DOT: Not Regulated for Land Transportation

LAND-TDG: Not Regulated for Land Transportation

SEA-IMDG: Not Regulated for Sea Transport

AIR-IATA: Not Regulated for Air Transport

ICAO: Not Regulated for Air Transport

Proper Shipping Name: Not regulated.**Packing Group: Not applicable****UN/NA Number: Not regulated.****Reportable Quantity: A Reportable Quantity (RQ) has not been established for this material.****Emergency Response Guide No.: Not applicable.****MARPOL III Status: Not a DOT "Marine Pollutant" per 49 CFR 171.8.**

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SECTION 15: REGULATORY INFORMATION

TSCA Inventory

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) Inventory.

SARA 302/304 Emergency Planning and Notification

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to Subparts 302 and 304 to submit emergency planning and notification information based on Threshold Planning Quantities (TPQs) and Reportable Quantities (RQs) for "Extremely Hazardous Substances" listed in 40 CFR 302.4 and 40 CFR 355. No components were identified.

SARA 311/312 Hazard Identification

The Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III requires facilities subject to this subpart to submit aggregate information on chemicals by "Hazard Category" as defined in 40 CFR 370.2. This material would be classified under the following hazard categories: This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory. No SARA 311/312 hazard categories identified.

SARA 313 Toxic Chemical Notification and Release Reporting

This product contains the following components in concentrations above *de minimis* levels that are listed as toxic chemicals in 40 CFR Part 372 pursuant to the requirements of Section 313 of SARA: No components were identified.

CERCLA

The Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) requires notification of the National Response Center concerning release of quantities of "hazardous substances" equal to or greater than the reportable quantities (RQ's) listed in 40 CFR 302.4. As defined by CERCLA, the term "hazardous substance" does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically designated in 40 CFR 302.4. This product or refinery stream is not known to contain chemical substances subject to this statute. However, it is recommended that you contact state and local authorities to determine if there are any other reporting requirements in the event of a spill.

Clean Water Act (CWA) (USA only)

This material is classified as an oil under Section 311 of the Clean Water Act (CWA) and the Oil Pollution Act of 1990 (OPA). Discharges or spills which produce a visible sheen on waters of the United States, their adjoining shorelines, or into conduits leading to surface waters must be reported to the EPA's National Response Center at (800) 424-8802.

California Proposition 65 (State of California, USA only)

This product is not known to contain any components for which the State of California has found to cause cancer, birth defects or other reproductive harm.

Additional Remarks

No additional regulatory remarks.

SECTION 16: OTHER INFORMATION

NE = Not Established, ND = Not Determined, NA = Not Applicable

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

No Revision information is available.

Revision Date: August 03, 2013 (New)

Supersedes: Any previous versions

SECTION 16: OTHER INFORMATION (continued)

Assawayer Trading Co. Ltd., believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof.

No warranty of fitness, warranty of merchantability or any other warranty, expressed or implied, is made concerning the information provided herein.

The information provided herein relates only to the specific product designated and may not be valid where such product is used in combination with any other materials or process.

Further, since the conditions and methods of use of this product and of the information referred to herein are beyond the control of Assawayer Trading Co. Ltd.

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