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FS 220 GL

SECTION 1. IDENTIFICATION OF THE PREPARATION AND THE COMPANY / UNDERTAKING

- 1.1 **Product name:** FS 220 GL
1.2 **Identified use(s):** Lubricant, General machinery, Indirect food contact.
Use(s) advised against: None known
1.3 **Details of supplier of SDS:** New Tech Lubes Ltd, Unit 2-4 Harrison Drive Ind Est, Worksop
Notts, S81 9RL
E Mail (competent person): info@newtechlubes.com
1.4 **Emergency telephone:** +44 (0)1909 730900 (08.00 -16.00 GMT Monday to Friday)

SECTION 2. HAZARDS IDENTIFICATION

- 2.1 **Classification of the substance/mixture:**
Classified according to GB CLP Regulation, UK SI 2019/720 and UK SI 2020/1567:
H410 - Hazardous to the Aquatic Environment Long-Term Hazard Category 1

- 2.2 **Label elements:** Hazard pictograms:



Signal word: Warning

Hazard statements: H410: Very toxic to aquatic life with long lasting effects.

Precautionary statements: P201: Obtain special instructions before use.

P260: Do not breathe mist/vapours/spray.

P273: Avoid release to the environment.

P280: Wear protective gloves and clothing.

P308+P313: IF exposed or concerned: Get medical advice/attention.

P314: Get medical advice/attention if you feel unwell.

P391: Collect spillage

P405: Store locked up

P501: Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulations.

- 2.3 **Other hazards:**

O,O,O-triphenyl phosphorothionate: The material within this SDS meets the criteria for persistent, bio-accumulative and toxic in accordance with Annex XIII.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

- 3.1 **Substances:** N/A

- 3.2 **Mixture:**

Name	Product identifiers	%	Hazard statements
O,O,O-triphenyl phosphorothionate	CAS No: 597-82-0 EC No: 209-909-9 REACH No: 01-2119979545-21-xxxx	<1%	Aquatic Chronic 1: H410

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures:

Inhalation: If fumes, aerosols or combustion products are inhaled remove from contaminated area. Get medical attention if symptoms occur.

Ingestion: Immediately give a glass of water. Do not induce vomiting. First aid is not generally required. If in doubt contact a Poisons Information Centre or a doctor.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Removal of contact lenses after an eye injury should only be undertaken by skilled personnel. Get medical attention promptly if symptoms occur after washing.

4.2 Most important symptoms and effects, both acute and delayed: See section 11.

4.3 Indication of any immediate medical attention and special treatment needed: Treat symptomatically.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: Water spray jet, alcohol-resistant foam, extinguishing powder, carbon dioxide.

Unsuitable extinguishing media: High pressure water jet.

5.2 Special hazards arising from the substance or mixture: This product may give rise to hazardous fumes in a fire. Hazardous combustion products: Carbon oxides. Aldehydes. Toxic vapours. Irritation vapours.

5.3 Advice for fire fighters: Evacuate area. Avoid breathing fire gases or vapours. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and watercourses. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective clothing as described in section 8 of this safety data sheet. Keep unnecessary and unprotected personnel away from the spillage. Provide adequate ventilation. Do not touch or walk into spilled material. Take care as floors and other surfaces may become slippery.

6.2 Environmental precautions: Do not release into the environment. Do not discharge into drains, water courses or onto the ground. Collect spillage. Use containment for a large spill. Notify relevant authorities if this material is released to the environment.

6.3 Methods and material for containment and clearing: Stop leak if safe to do so. Contain and absorb spillage with sand, earth or other non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol.

6.4 Reference to other sections: For PPE and disposal see sections 8 and 13 respectively.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid contact with skin and eyes. May cause skin sensitisation or allergic reactions in sensitive individuals. Wear protective clothing as described in section 8 of this safety data sheet. Provide adequate ventilation. Good personal hygiene procedures should be implemented. Eye wash facilities and emergency shower must be available when handling this product.

7.2 Conditions for safe storage, including any incompatibilities: Store in tightly-closed, original container in a dry, cool and well-ventilated place. Protect from sunlight. Store at temperatures above 5°C. Storage class: Chemical storage.

7.3 Specific end use(s): The identified uses for this product are detailed in Section 1.2.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters: Contains no substance with occupational exposure limit values.

8.2 Exposure controls:

Appropriate engineering controls: Provide adequate ventilation. Avoid inhalation of vapours and spray/mists.

Personal protective equipment:



Eye/face protection: Chemical splash goggles. Safety glasses with side shields. Personal protective equipment for eye and face protection should comply with European Standard EN166. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available.

Hand protection: Wear protective gloves. To protect hands from chemicals, gloves should comply with European Standard EN374. When used with mixtures, the protection time of gloves cannot be accurately estimated. It is recommended that gloves are made of the following material: Nitrile rubber. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. The breakthrough time for any glove material may be different for different glove manufacturers. Frequent changes are recommended.

Other skin and body protection: Wear suitable protective clothing as protection against splashing or contamination. (EN 13034 TYPE 6)

Hygiene measures: Wash promptly with soap and water if skin becomes contaminated. Remove contaminated clothing and protective equipment before entering eating areas. Do not eat, drink or smoke when using this product.

Respiratory protection: Respiratory protection may be required if excessive airborne contamination occurs.

Gas filter, type A2. Gas and combination filter cartridges should comply with European Standard EN14387.

Environmental exposure controls: Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Physical state: Liquid

Appearance: Clear

Colour: Clear/colourless

Odour: Odourless

Odour threshold: No information available

pH: No information available

Melting point/range: No information available

Initial boiling point and range: No information available

Flash point: >210°C

Evaporation rate: No information available

Flammability (solid, gas): No information available

Auto flammability: No information available

Upper/lower flammability or explosive limits: No information available

Vapour pressure: No information available

Relative density: 0.93

Density: No information available

Solubility(ies): Insoluble in water

Partition coefficient n-octanol/water: No information available

Auto-ignition temperature: >350°C

Decomposition temperature: No information available

Kinematic viscosity: 220mm²/s @ 40°C

Viscosity: Not available

Explosive properties: Not an explosive

Oxidising properties: The substance or mixture is not classified as oxidising

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reactions known under normal conditions of use.

10.2 Chemical stability: Stable under proper storage and handling conditions.

- 10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- 10.4 Conditions to avoid:** Heat, flame and other ignition sources.
- 10.5 Incompatible materials:** Avoid contact with strong oxidising agents, strong acids and strong alkalis.
- 10.6 Hazardous decomposition products:** Thermal decomposition or combustion products may include the following substances: Oxides of the following substances: Carbon. Nitrogen. Phosphorus. Sulphur.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

Acute toxicity:

Oral: May cause irritation of the gastrointestinal tract. Not classified for acute toxicity based on available data.

Dermal: Not classified for acute toxicity based on available data.

Inhalation: Overexposure to vapours or mist may cause dizziness, headache, nausea, and/or flu-like symptoms. Avoid inhalation of mists or vapours. Persons with sensitive airways (e.g., asthmatics) may react to vapours.

Skin corrosion/irritation: Prolonged or repeated contact may cause irritation. Pre-existing skin conditions may be aggravated by prolonged or repeated exposure. Contact with heated polymer may cause thermal burns and adhesion of solidified product to the skin. Not classified as a primary skin irritant.

Serious eye damage/irritation: Not classified as a primary eye irritant. Remarks: Vapours may cause irritation.

Respiratory sensitisation: No data available

Skin sensitisation: No data available

Specific target organ toxicity – single exposure: No data available

Aspiration hazard: No data available

Carcinogenicity: No data available

Germ cell mutagenicity: No data available

Reproductive toxicity: No data available

Specific target organ toxicity – repeated exposure: No data available

Skin contact: May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact: May cause eye irritation.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity:

O,O,O-triphenyl phosphorothionate:

Endpoint	Test Duration (hr)	Species	Value
EC50	48h	Crustacea	>100mg/l
NOEC(ECx)	2088h	Fish	0.004mg/l
LC50	96h	Fish	83mg/l

12.2 Persistence and degradability:

O,O,O-triphenyl phosphorothionate: Persistence: Water and soil: High
Air: High

12.3 Bio-accumulative potential: No data available for all ingredients.

12.4 Mobility in soil: O,O,O-triphenyl phosphorothionate: Mobility: LOW (Log KOC = 215700)

12.5 Results of PBT and vPvB assessment: This substance is not classified as PBT or vPvB.

12.6 Endocrine disrupting properties: The evidence linking adverse effects to endocrine disruptors is more compelling in the environment than it is in humans. Endocrine disruptors profoundly alter reproductive physiology of ecosystems and ultimately impact entire populations. Some endocrine-disrupting chemicals are slow to break-down in the environment. That characteristic makes them potentially hazardous over long periods of time. Some well-established adverse effects of endocrine disruptors in various wildlife species include; eggshell-thinning, displayed of characteristics of the opposite sex and impaired reproductive development. Other adverse changes in wildlife species that have been suggested, but not proven include; reproductive abnormalities, immune dysfunction and skeletal deformities.

12.7 Other adverse effects: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: When handling waste, the safety precautions applying to handling of the product should be considered. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Confirm disposal procedures with environmental engineer and local regulations. This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf-life considerations should also be applied in making decisions of this type. Do not let product enter drains.

SECTION 14. TRANSPORT INFORMATION

Labels required:



Land transport (ADR-RID)	
14.1 UN number:	3082
14.2 UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (contains O,O,O-triphenyl phosphorothionate)
14.3 Transport hazard class(es):	Class: 9 Subsidiary Hazard: Not applicable
14.4 Packing group:	III
14.5 Environmental hazards:	Environmentally hazardous
14.6 Special precautions for user:	Hazard Identification (Kemler): 90 Classification Code: M6 Hazard Label: 9 Special Provisions: 274 335 375 601 Limited Quantity: 5L Transport Category: 3 Tunnel Restriction Code: Not applicable

Air transport (ICAO-IATA/DGR)	
14.1 UN number:	3082
14.2 UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (contains O,O,O-triphenyl phosphorothionate)
14.3 Transport hazard class(es):	ICAO/IATA Class: 9 ICAO/IATA Subsidiary Hazard: Not applicable ERG Code: 9L
14.4 Packing group:	III
14.5 Environmental hazards:	Environmentally hazardous
14.6 Special precautions for user:	Special Provisions: A97 A158 A197 A215 Cargo Only Packing Instructions: 964 Cargo Only Maximum Qty/Pack: 450L Passenger and Cargo Packing Instructions: 964 Passenger and Cargo Maximum Qty/Pack: 450L Passenger and Cargo Limited Quantity Packing Instructions: Y964 Passenger and Cargo Limited Maximum Qty/Pack: 30kg G

Sea transport (IMDG-Code/GGVSee)	
14.1 UN number:	3082
14.2 UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (contains O,O,O-triphenyl phosphorothionate)
14.3 Transport hazard class(es):	IMDG Class: 9 IMDG Subsidiary Hazard: Not applicable
14.4 Packing group:	III
14.5 Environmental hazards:	Marine Pollutant
14.6 Special precautions for user:	EMS Number: F-A, S-F Special provisions: 274 335 969 Limited Quantities: 5L

Inland waterways transport (ADN)	
14.1 UN number:	3082

14.2 UN proper shipping name:	Environmentally hazardous substance, liquid, n.o.s. (contains O,O,O-triphenyl phosphorothionate)
14.3 Transport hazard class(es):	9: Not applicable
14.4 Packing group:	III
14.5 Environmental hazards:	Environmentally hazardous
14.6 Special precautions for user:	Classification code: M6 Special provisions: 274 335 375 601 Limited Quantities: 5L Equipment required: PP Fire cones number: 0

14.7 Maritime transport in bulk according to IMO instruments: Not available

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

International inventories:

Australia (AICS): All ingredients are on the inventory or exempt list

Canada (DSL): All ingredients are on the inventory or exempt list

Canada (NDSL): None of the ingredients are on the inventory

China (IECSC): All ingredients are on the inventory or exempt list

EINECS (European Inventory of Existing Chemical Substances): All ingredients are on the inventory or exempt list

ELINCS (European List of Notified Chemical Substances): None of the ingredients are on the inventory

ENCS (Japan): All ingredients are on the inventory or exempt list

South Korea (KECL): All ingredients are on the inventory or exempt list

Philippines (PICCS): All ingredients are on the inventory or exempt list

TSCA (United States): All ingredients are on the inventory or exempt list

15.2 Chemical safety report: No information available

SECTION 16. OTHER INFORMATION

Classification methods used to derive classification of mixture: Classification according to calculation procedure detailed in Regulation (EC) 1272/2008

Contains only FDA listed ingredients. NSF H1 registered

Hazard statements in full:

H410: Very toxic to aquatic life with long lasting effects.

Legend

AICS: Australian Inventory of Chemical Substances

DNEL: Derived no effect level

DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS: European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS: Japan Existing and New Chemical Substances

IECSC: China Inventory of Existing Chemical Substances

KECL: Korean Existing and Evaluated Chemical Substances

LTEL: Long term exposure limit

NAV: Not available

PICCS: Philippines Inventory of Chemicals and Chemical Substances

PNEC: Predicted no effect concentration

STEL (SE): Short term exposure limit (Single exposure)

STOT: Specific target organ toxicity

TSCA: United States Toxic Substances Control Act Section 8(b) Inventory

Additional information: This safety data sheet has been produced based on information supplied by the manufacturers of the materials therein and is believed to be accurate. No warranty is expressed or implied by this information. It is for the user to satisfy themselves of the suitability of the product for their own purposes.