Safety Data Sheet

Section 1 - Identification of the Material and Supplier

Product Name	**F-HYD 404**
Product Use	Hydraulic oil, food grade
Supplier	**Oil Intel Limited** **56 Whakatu Road, Whakatu** **Hastings 4172** **NEW ZEALAND** **Phone: +64 (06) 871 53 25** **Fax: +64 (06) 870 48 90**
EMERGENCY TELEPHONE NUMBER	**0800 734 607 (New Zealand)**
Chemical Nature	Product containing mineral oil with <3% DMSO extract as measured by IP346.
Creation Date	**February 2015**
This Version Issued	**July 2018** and is valid for 5 years from this date.

Section 2 – Hazards Identification

2.1 Classification of the substance or mixture

Product definition	Mixture
Classification according to directive (EC) 1272/2008 (CLP/GHS)	The product is not classified according to CLP/GHS
Classification according to directive 1999/45/EC (incl. amendments)	The product is not classified according to DSD/DPD

See section 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.
See section 16 for full text on R phrases or H statements declared above.

2.2 Label elements

Hazard symbol or symbols	Not applicable
Signal word	Not applicable
Indication of danger	Not applicable
Hazard statements (for full text, see section16)	Not applicable
Risk phrases	Not applicable
Precautionary statements (full text)	Not applicable
Safety phrases	Not applicable
Hazardous components which must be listed on the label	Not applicable
Supplemental label requirement	Not applicable
Special packaging requirements	Not applicable

2.3 Other hazards

Other hazards which do not result in classification	Not applicable

Section 3 – Composition/Information on Ingredients

Substance/mixture **Mixture**

Product/ingredient name	CAS/EINECS/RRN	%	Classification 67/458/EEG	Classification (EG) 1272/2008	Type
Additional information	For wording of any listed risk phrases refer to section 16.				
PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0,1% or higher.				

Type
1. Substance classified with a health or environmental hazard in accordance with 67/548/EEG or (EC)1272/2008
2. Substance with a workplace exposure limit
3. Substance meets the criteria for PBT according to Regulation (EG)1907/2006, Annex XIII
4. Substance meets the criteria for vPvB according to Regulation (EG) 1907/2006, Annex XIII

Occupational exposure limits, if available, are listed in Section 8.

Section 4 – First Aid Measures

4.1 Description of first aid measures

General Information	No special measures required
Inhalation	If inhaled, remove to fresh air. Get medical attention if symptoms appear. In case of inhalation of decomposition products in fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin Contact	Immediately wash with water and soap and rinse thoroughly. Take off contaminated clothing and shoes immediately. Wash before using again. Wash skin with soap and water. Get medical attention if irritation develops.
Eye Contact	Remove contact lenses if worn. Rinse opened eye for several minutes. Get medical attention if symptoms persist.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do not induce vomiting; call for medical help immediately.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No further information available
Risks	No further information available

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	In case of inhalation of decomposition products in fire, symptoms may be delayed. The

	exposed person may need to be kept under medical surveillance for 48 hours.
Treatment	Treatment should in general be symptomatic and directed to relieving any effects.

Section 5 – Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Carbon dioxide Water haze or fog Foam Fire-extinguishing powder
Unsuitable extinguishing media	Do not use water jet

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst. The product is not flammable but may maintain combustion.
Hazardous combustion products	Carbon dioxide (CO_2), Carbon monoxide (CO) Under certain fire conditions, traces of other toxic gases cannot be excluded.

5.3 Advice for firefighters

Special precautions for firefighters	No action shall be taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.
Special protective equipment for firefighters	Firefighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for firefighters (including helmets, protective boots and gloves) conforming to the European standard EN 469 will provide a basic level of protection for chemical incidents.

Section 6 – Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	Contact emergency personnel. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Floors may be slippery; use care to personal protective equipment.
For emergency personnel	Entry into a confined space or poorly ventilated area contaminated with vapor, mist or fume is extremely hazardous without the correct respiratory protective equipment and a safe system of work. Wear self-contained breathing apparatus. Wear a suitable chemical protective suit. Chemical resistant boots. See also the information in "For non-emergency personnel".

6.2 Environmental precautions

Protective measures	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Small spills	Stop leak if without risk. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spills	Immediately contact emergency personnel. Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with liquid-binding absorbent material e.g. sand, earth, vermiculite, diatomaceous earth or similar and place in container for disposal according to local regulations. Contaminated absorbent material may pose the same hazard as the spilt product. Dispose of via a licensed waste disposal contractor.

Reference to other sections
See section 1 for emergency contact information.
See section 5 for firefighting measures.
See section 8 for information on appropriate personal protective equipment.
See section 12 for environmental precautions.
See section 13 for additional waste treatment information.

Section 7 – Handling and Storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available user-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	Avoid the formation of oil haze. Put on appropriate personal protective equipment. Do not breathe vapour or mist. Do not ingest. Do not get in eyes, on skin or on clothing. Avoid contact of spilt material and runoff with soil and surface waterways. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Do not reuse container. Use only with adequate ventilation.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

	Store and use only in equipment/containers designed for use with this product. Keep away from heat and direct sunlight. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Store in dry, cool and well-ventilated area, away from incompatible materials (see section 10).

7.3 Specific end use(s)

Recommendations	No further relevant information available

Section 8 – Exposure Controls and Personal Protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

For information and guidance, the ACGIH values are included. For further information on these please consult your supplier. Whilst specific OELs for certain components may be shown in this section, other components may be present in any mist, vapor or dust produced. Therefore, the specific OELs may not be applicable to the product as a whole and are provided for guidance only.

Hazardous ingredients	Exposure limit value
	ACGIH KLV: - mg/ m^3 NGV: - mg/m^3
Additional information on exposure limit and monitoring	The lists valid during the making were used as basis.
Recommended monitoring procedures	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres – Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) and European Standard EN 482 (Workplace atmospheres – General requirements for the performance of procedures for the measurement of chemical agents). Reference to national guidance documents for methods for the determination of hazardous substances will also be required.
Derived No Effect Level	No DNELs/DMELs available
Predicted No Effect Concentration	No PNECs available

8.2 Exposure controls

Appropriate engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. All activities involving chemicals should be assessed for their risks to health, to ensure exposures are adequately controlled. Personal protective equipment should only be considered after other forms of control measures (e.g. engineering controls) have been suitably evaluated. Personal protective equipment should conform to appropriate standards, be suitable for use, be kept in good condition and properly maintained. Your supplier of personal protective equipment should be consulted for advice on selection and appropriate standards. For further information contact your national organization for standards. The final choice of protective equipment will depend upon a risk assessment. It is important to ensure that all items of personal protective equipment are compatible.

Personal protective equipment

Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	Chemical splash goggles.
Hand protection	Wear protective gloves if prolonged or repeated contact is likely. Wear chemical resistant gloves. Recommended: Nitrile rubber or Butyl rubber. The correct choice of protective gloves depends upon the chemicals being handled, the conditions of work and use, and the condition of the gloves (even the best chemically resistant glove will break down after repeated chemical exposures). Most gloves provide only a short time of protection before they must be discarded and replaced. Because specific work environments and material practices vary, safety procedures should be developed for each intended application. Gloves should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.
Skin and body	Use of protective clothing is good industrial practice. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Cotton or polyester/cotton overalls will only provide protection against light superficial contamination that will not soak through to the skin. Overalls should be laundered on a regular basis. When the risk for skin exposure is high (e.g. when cleaning up spillages or if there is a risk for splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.
Respiratory protection	Use with adequate ventilation. Respiratory protection equipment is not required under normal use and handling.
Environmental exposure controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Section 9 – Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Property	Value
Appearance	Transparent liquid
Physical state	Liquid
Colour	Colourless
Odour	Odourless.
Odour threshold	Not determined
pH	Not determined
Melting point/freezing point	Not determined
Initial boiling point and boiling range	>250 °C
Pour point	< -49 °C
Flash point	> 180 °C (COC)
Evaporation rate	Not determined
Flammability (solid, gas)	Not determined
Upper/lower flammability or explosive limits	Not determined
Vapor pressure	Not determined
Vapor density	Not determined
Relative density	Not determined
Solubility(ies)	Not miscible or difficult to mix with water.
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	46 mm^2/s at 40°C
Explosive properties	Product does not present an explosion hazard.
Oxidising properties	Not determined

9.2 Other Information

No further relevant information available.

Section 10 – Stability and Reactivity

10.1 Reactivity	No specific test data available for the product. Refer to Conditions to avoid any incompatible materials for additional information.
10.2 Chemical Stability	The product is stable
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous polymerisation will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to Avoid	High temperatures.
10.5 Incompatible Materials	Strong oxidizing agents.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11 – Toxicological Information

11.1 Information on toxicological effects

Information about the likely routes of exposure	Routes of entry anticipated: Dermal, inhalation

Potential acute health effects

Inhalation	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. May cause irritation to eyes, nose and throat due to exposure to vapor, mists or fumes
Ingestion	No known significant effects or critical hazards
Skin Contact	Slight irritant effect on skin and mucous membranes.
Eye Contact	Slight irritant effect on eyes.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	No further relevant information available
Ingestion	No specific data available
Skin contact	Adverse symptoms may include the following: Irritation Dryness Cracking
Eye contact	Adverse symptoms may include the following: Pain or irritation Watering Redness

Delayed and immediate effects and also chronic effects from short and long term exposures

Inhalation	Overexposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract.
Ingestion	Ingestion of large quantities may cause nausea and diarrhoea
Skin contact	Prolonged or repeated contact can defat the skin and lead to irritation and/or dermatitis.
Eye contact	Potential risk of transient stinging or redness if accidental eye contact occurs.

Potential chronic health effects

General	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenity	No known significant effects or critical hazards
Mutagenicity	No known significant effects or critical hazards
Development effects	No known significant effects or critical hazards
Fertility effects	No known significant effects or critical hazards

Other information	The project is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Section 12 – Ecological Information

12.1 Toxicity

Environmental hazards	The product is not expected to be harmful to aquatic organisms.

12.2 Persistence and degradability

Biodegradability	Expected to be inherently biodegradable.

12.3 Bioaccumulative potential

	Components cannot be excluded from having a potential for bioaccumulation.

12.4 Mobility in soil

Soil/water partition coefficient (K_{OC})	No data available.
Mobility	Low solubility floats on water. Is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids.

12.5 Results of PBT- and vPvB assessment

PBT	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic at levels of 0,1% or higher
vPvB	This substance/mixture contains no components considered to be either very persistent and very bioaccumulative at levels of 0,1% or higher

12.6 Other adverse effects

	No known significant effects or critical hazards

12.7 Other information

	No further information available

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Product

Methods of disposal	The generation of waste should be avoided or minimized wherever possible. Dispose of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Hazardous waste	Yes. Dispose of contents/container in accordance with local regulation.

European waste catalogue (EWC)

Waste code	European waste catalogue (EWC)
130111*	Synthetic hydraulic oils

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Packaging

Method of disposal	Contaminated packaging: Drums that are to be recycled must be thoroughly evacuated. Turn empty drum up-side down, somewhat leaning approximately 10-15 degrees) with opening in the lowest position. Let remaining products run out until drip-free. Do not reseal without ventilating at a place free from ignition sources. See section 7 for further instructions. Dispose of via an authorized person/licensed waste disposal contractor in accordance with local regulations. Recycle if possible.
Waste code	European waste catalogue (EWC)
150110*	Packaging containing residues of or contaminated by dangerous substances

However, deviation from the intended use and/or the presence of any potential contaminants may require an alternative waste disposal code to be assigned by the end user.

Special precautions	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some products residues. Empty containers represent a fire hazard as they may contain flammable product residues and vapor. Never weld, solder or braze empty containers. Avoid disposal of spilt material and runoff and contact with soil, waterways, drains and sewers

Section 14 – Transport Information

	ADR/RID	ADN/ADNR	IMDG	IATA
14.1 UN number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
14.6 Special precautions	-	-	-	-
Additional information	-	-	-	-

Section 15 – Regulatory Information

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

EU Regulation (EG) No 1907/2006 (REACh)

Annex XIV- List of substances subject to authorisation

Substances of very high concern

None of the components are listed

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable

Other regulations

National Inventory List	Australia inventory (AICS): All components are listed or exempt China inventory (IECSC): All components are listed or exempt. Japan inventory (ENCS): All components are listed or exempt Korea inventory (KECI): All components are listed or exempt New Zealand inventory (NZIoC): All components are listed or exempt Philippines inventory (PICCS): All components are listed or exempt USA inventory (TSCA 8b): All components are listed or exempt. Canada inventory (DSL): All components are listed or exempt
REACh status	The company, as identified in Section 1, sells the product in the EU in compliance with the current requirements of REACh

15.2 Chemical Safety Assessment

	This product contains substances for which Chemical Safety assessment are not required.

Section 16 – Other Information

Abbreviations and acronyms	ADN= The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADR=The European Agreement concerning the International Carriage of Dangerous Goods by Road EWC= European Waste Catalogue GHS=Globally Harmonized System of Classification and Labelling of Chemicals IATA= International Air Transport Association
Full text of abbreviated H statements	Not applicable
Full text of classification CLP/GHS	Not applicable
Full text of abbreviated R phrases	Not applicable
Full text of classifications DSD/DPD	Not applicable
Date of issue/Date of revision	23/07/18
Date of previous issue	No previous issue in this format
Version	1.0
Prepared by	Product Stewardship
Notice to reader	

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