



## **MATERIAL SAFETY DATA SHEET**

## SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

## **1.1 Product identifier**

Product Name:	HYDRON AW VG 46 MINERAL
Product Type:	Liquid

## 1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Use of the Substance / Mixture:	Hydraulic Oils
	For specific application advice see appropriate Technical Data Sheet or
	consult our company representative.

## **1.3 Details of the Supplier of the Safety Data Sheet**

Petroleum Technology FZC, E-23G-09, Hamriyah Free Zone, Sharjah United Arab Emirates PO Box 50144
Phone: +971 6 561 8895 Email: info@petroleumtechnology.net
01-Mar-2023
01-Feb-2024
Petroleum Technology FZC

## **1.4 Emergency Telephone Number**

Emergency Telephone Number:	United Arab Emirates, Government of Sharjah, Hamriyah Free Zone
	Authority, SAFETY PH NO. +971 6 526 1666 (24x7)
	EMERGENCY PH NO. +971 6 526 2111 (24x7)

## **SECTION 2: Hazard Identification**

## 2.1 Classification of the Substance / Mixture

Product Definition:	Mixture
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	Not Classified
Classification according to Directive 1999/45/EC [DPD]	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.





See sections 11 and 12 for more detailed information on health effects and symptoms and environmental hazards.

## **2.2 Label Elements**

Signal Word:	No signal word.
Hazard Statements:	No known significant effects or critical hazards.
Precautionary Statements:	
Prevention	Not applicable.
Response	Not applicable.
Storage	Not applicable.
Disposal	Not applicable.
Supplemental Label Elements:	Not applicable.
Special Packaging Requirements:	
Containers to be fitted	Not applicable.
with child-resistant	
fastenings	
Tactile Warning of Danger:	Not applicable.
2.2 Other Hezerde	

## 2.3 Other Hazards

Other Hazards which do not Result in	Defatting to the skin.
Classification:	USED HYDRALIC OILS
	Used engine oil may contain hazardous components, which have the
	potential to cause skin cancer.
	See Toxicological Information, section 11 of this Safety Data Sheet.

## **SECTION 3: Composition/Information on Ingredients**

COMPONENTS Base Oil	CAS NUMBER 64742-65-0 64742-54-7 68037-01-4	AMOUNT 80 % - 99 %
Performance Additives	Mixture	0.6% - 1.0%

## **SECTION 4: First Aid Measures**

## 4.1 Description of First Aid Measures

Eye Contact:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.





Eye Contact:	Eyelids should be held away from the eyeball to ensure thorough rinsing. Check for and remove any contact lenses. Get medical attention.
Skin Contact:	Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation develops.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if Symptoms occur.
Inhalation:	If inhaled, remove to fresh air. Get medical attention if symptoms appear. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Protection of First Aiders:	No action shall be taken involving any personal risk or without suitable training.

#### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed

See Section 11 for more detailed information on health effects and symptoms.

## 4.3 Indication of Immediate Medical Attention and Special Treatment Needed

Notes to Physician:See Section 11 for more detailed information on health effects and<br/>symptoms.

## **SECTION 5: Fire Fighting Measures**

#### 5.1 Extinguishing Media

Suitable Extinguishing Media In case of fire, use foam, dry chemical or carbon dioxide extinguisher or spray.

Unsuitable Extinguishing Media Do not use water jet.

## 5.2 Special Hazards Arising from Substance / Mixture

Hazards from the Substance or Mixture In a fire or if heated, a pressure increase will occur and the container may





burst.

Hazardous Combustion Products	Combustion products may include the following: Carbon Oxides (CO, CO2) (carbon monoxide, carbon dioxide)
5.3 Advice for Fire Fighters	
Special precautions for fire-fighters	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	Fire fighters 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 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	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 avoid falling. Put on appropriate personal protective equipment.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the

information in "For nonemergency personnel".

## **6.2 Environmental Precautions**

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 Material for Containment and Cleaning Up

Small SpillStop leak if without risk. Move containers from spill area. Absorb with an<br/>inert material and place in an appropriate waste disposal container.<br/>Dispose of via a licensed waste disposal contractor.





Large Spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, watercourses, basements or confined areas. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

#### **6.4 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**

#### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, 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 in accordance with local regulations. Store in a dry, cool and wellventilated area, away from incompatible materials (see Section 10). 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. Store and use only in equipment/containers designed for use with this product. Do not store in unlabeled containers.

## 7.3 Specific and End Use(s) Recommendations

See section 1.2 and Exposure scenarios in annex, if applicable.





## **SECTION 8: Exposure Controls / Personal Protection**

### **8.1 Control Parameters**

Occupational Exposure Limits	No exposure limit value known measures.				
	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.				
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 - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) 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 relevant airborne concentrations 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.
Individual protection measures 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.
Respiratory Measures	Respiratory protective equipment is not normally required where there is adequate natural or local exhaust ventilation to control exposure. In case of insufficient ventilation, wear suitable respiratory equipment. The correct choice of respiratory protection depends upon the chemicals being handled, the conditions of work and use, and the condition of the respiratory equipment. Safety procedures should be developed for each intended application. Respiratory protection equipment should therefore be chosen in consultation with the supplier/manufacturer and with a full assessment of the working conditions.
Eye / Self Protection	Safety glasses with side shades
Skin Protection Hand Protection	General Information: Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. The correct choice of protective gloves depends upon the chemicals being handled, and the conditions of work and use. Most gloves provide protection for only a limited time before they must be discarded and replaced (even the best chemically resistant gloves will break down after repeated chemical exposures). Gloves should be chosen in consultation with the supplier / manufacturer and taking account of a full assessment of the working conditions.
	Recommended: Nitrile Gloves
	Breakthrough time: Breakthrough time data are generated by glove manufacturers under laboratory test conditions and represent how long a glove can be expected to provide effective permeation resistance. It is important when following breakthrough time recommendations that actual workplace conditions are taken into account. Always consult with your glove supplier for up-to-date

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technical information on breakthrough times for the recommended glove type. Our recommendations on the selection of gloves are as follows: Continuous contact:

Gloves with a minimum breakthrough time of 240 minutes, or >480 minutes if suitable gloves can be obtained. If suitable gloves are not available to offer that level of protection, gloves with shorter breakthrough times may be acceptable as long as appropriate glove maintenance and replacement regimes must be determined and rigorously followed.

Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks.

For Example:

Skin and Body:

**Refer to Standards** 

• Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.

• Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential.

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 of skin exposure is high (e.g. when cleaning up spillages or if there is a risk of splashing) then chemical resistant aprons and/or impervious chemical suits and boots will be required.

Respiratory protection: EN529 Gloves: EN420, EN374 Eye protection: EN166

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

Appearance	
Physical State	Liquid
Color	Light Amber
Odour	Typical Petroleum
Odour threshold	Not Available
рН	Not Available
Melting point/freezing point	Not Available
Initial boiling point and boiling range	Not Available
Pour point	Not Available
Flash point	>200 °C
Evaporation rate	Not Available
Flammability (solid, gas)	Not Available
Upper/lower flammability or	Not Available
explosive limits	
Vapor pressure	Not Available
Vapor density	Not Available
Relative density	Not Available
SP. Gravity @15°C/ 60°F	0.820 – 0.90 g/cm <sup>3</sup>
Solubility	Insoluble in water.
Partition coefficient:	Not Available
Auto-ignition temperature	Not Available
Decomposition temperature	Not Available
Viscosity	Not Available
Explosive properties	Not Available
Oxidizing properties	Not Available

## 9.2 Other Information

No Additional Information

## **SECTION 10: Stability and Reactivity**

## **10.1 Reactivity**

No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for additional information.

## **10.2 Chemical Stability**







This product is stable.

## **10.3 Possibility of Hazardous Reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous polymerization will not occur.

## **10.4 Conditions to Avoid**

Avoid all possible sources of ignition (spark or flame).

## **10.5 Incompatible Materials**

Reactive or incompatible with Oxidizing Materials

## **10.6 Hazardous Decomposition Products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## **SECTION 11: Toxicological Information**

## **11.2 Information on Toxicological Effects**

Acute Toxicity Estimates Petroleum derived calcium salt 61789-86-4	<b>Route</b> Oral Dermal Inhalation (dusts and mists)	ATE Value > 5000mg/kg > 4000 mg/kg 418.6 mg/l	
Information on 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. Seric effects may be delayed following exposure.		
Ingestion	No known significant effects or critical hazards.		





Skin Contact	Defatting to the skin. May cause skin dryness and irritation.
Eye Contact	No known significant effects or critical hazards.

# Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	No specific data
Ingestion	No specific data
Skin Contact	Adverse symptoms may include irritation, dryness, cracking
Eye Contact	No specific data

Delayed and immediate effects and also chronic effects from short and long term exposure Inhalation/Ingestion Skin Contact	Over exposure to the inhalation of airborne droplets or aerosols may cause irritation of the respiratory tract. Ingestion of large quantities may cause nausea and diarrhea. Prolonged or repeated contact can defeat the skin and lead to irritation and/or dermatitis.
Potential Chronic Health Effects	Potential risk of transient stinging or redness if accidental eye contact occurs.
General	Used Engine Oils : Combustion products resulting from the operation of internal combustion engines contaminate engine oils during use. Used engine oil may contain hazardous components, which have the potential to cause skin cancer. Frequent or prolonged contact with all types and makes of used engine oil must therefore be avoided and a high standard of personal hygiene maintained.
Carcinogenicity	No know significant effects or critical hazards.
Mutagenicity	No know significant effects or critical hazards.
Developmental Effects	No know significant effects or critical hazards.

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**Fertility Effects** 

No know significant effects or critical hazards.

## **SECTION 12: Ecological Information**

#### 12.1 Toxicity

Environmental Hazard Not classified as dangerous.

## 12.2 Persistence and Degradability

Partially biodegradable.

#### **12.3 Bio Accumulative Potential**

This product is not expected to bio accumulate through food chains in the environment.

#### **12.4 Mobility in Soil**

Soil / Water partition coefficient (KOC)	Not available
Mobility	Spillages may penetrate the soil causing ground water contamination

#### 12.5 Result of PBT and vPvB Assessment

PBT	Not applicable

vPvB Not applicable

## **12.6 Other Adverse Effects**

Other ecological information	Spills may	form	a film	on	water	surfaces	causing	physical	damage	to
	organisms.	Oxyge	n trans	fer d	could a	lso be imp	paired.			

## **SECTION 13: Disposal Considerations**

## **13.1 Waste Treatment Methods**





Methods of Disposal	Where possible, arrange for product to be recycled. Dispose of via an authorized person/ licensed waste disposal contractor in accordance with local regulations.			
	Waste Code	Waste Designation		
	13 02 08*	Other engine, gear, and lubricating oils		
	However, deviation from the intended use and/or the presence of an potential contaminants may require an alternative waste disposal code to be assigned by the end user.			
Packing				
Methods of Disposal	Where possible, arrange for product to be recycled. Dispose of via an authorized person/licensed waste disposal contractor in accordance with local regulations.			
Special Precautions	This material and its container must be disposed of in a safe way containers or liners may retain some product residues. Avoid disp spilt material and runoff and contact with soil, waterways, dra sewers.			

## **SECTION 14: Transport Information**

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN Number	Not regulated	Not regulated	Not regulated	Not regulated
14.2 UN Proper Shipping Name	-	-	-	-
14.3 Transport Hazard Class	-	-	-	-
14.4 Packing Group	-	-	-	-
14.5 Environmental Hazards	No	No	No	No
Additional Information	-	-	-	-
14.6 Special Precautions for User	Not available			

## **SECTION 15: Regulatory Information**

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



EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization

None of the components are listed

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Not applicable

Substances of very high concern Annex XVII - Restrictions on the manufacturer, placing on the market and use of certain dangerous substances, mixtures and articles.

Other Regulations The company, as identified in Section 1, sells this **REACH Status** product in the EU in compliance with the current requirements of REACH. All components are listed or exempted. United States Inventory (TSCA 8b) At least one component is not listed. Australia Inventory (AICS) At least one component is not listed. Canada Inventory At least one component is not listed. China Inventory (IECSC) At least one component is not listed. Japan Inventory (ENCS) At least one component is not listed. Korea Inventory (KECI) At least one component is not listed. Philippines Inventory (PICCS)

#### **15.2 Chemical Safety Assessment**

This product contains substances for which Chemical Safety Assessments are still required.

## **SECTION 16: Other Information**

Acronyms AT ACCONYMS AT BC CC CC CC CC CC CC CC CC CC CC CC CC	DN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway DR = The European Agreement concerning the International Carriage of Dangerous Goods by Road TE = Acute Toxicity Estimate CF = Bio Concentration Factor AS = Chemical Abstracts Service LP = Classification, Labeling and Packaging Regulation [Regulation (EC) No. 1272/2008] SA = Chemical Safety Assessment SR = Chemical Safety Assessment SR = Chemical Safety Report MEL = Derived Minimal Effect Level NEL = Derived No Effect Level PD = Dangerous Substances Directive [1999/45/EC] SD = Dangerous Substances Directive [67/548/EEC] INECS = European Inventory of Existing Commercial chemical Substances S = Exposure Scenario UH statement = CLP-specific Hazard statement WC = European Waste Catalogue HS = Globally Harmonized System of Classification and Labeling of Chemicals ATA = International Air Transport Association XC = Intermediate Bulk Container MDG = Intermediate Bulk Container
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MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) OECD = Organization for Economic Co-operation and Development PBT = Persistent, Bio Accumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SADT = Self-Accelerating Decomposition Temperature SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TWA = Time weighted average UN = United Nations UVCB = Complex hydrocarbon substance VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bio Accumulative

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Full text of abbreviated H statements	H 304	May be fatal if swallowed and enters airways.
Full text of classifications [CLP/GHS]	H 413	May cause long lasting harmful effects to aquatic life.
	Aquatic Chronic 4, H413	LONG-TERM AQUATIC HAZARD -
	Asp. Tox. 1, H304	Category 4
		ASPIRATION HAZARD - Category 1
Full text of abbreviated R Phrases	R53- May cause long-term ad	verse effects in the aquatic environment.
Full text of classifications [DSD/DPD]	Not Applicable	
History		

Date of Issue	01-Mar-2024
Date of Revision	01-Feb-2024
Prepared by	Petroleum Technology FZC

#### **Notice to Reader:**

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