

**Power Hydraulic AW**

SDS# 1004

Revision Date 01/10/2018

SECTION 1. PRODUCT IDENTIFIER

Product Name	Power Hydraulic AW fluids
ISO Viscosity Grades	32, 46, 68
Relevant Use	Hydraulic Oil
Company Identification	Valley Pacific Petroleum Services 152 Frank West Circle, Suite 100 Stockton, CA 95206-4098 1-800-266-3782
Emergency Contact	CHEMTREC: 1-800-424-9300; 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview	Appearance: Viscous liquid Color: Pale, straw-yellow. Odor: Mild petroleum oil like.
Classifications	GHS Classification Not a hazardous substance or mixture. GHS label elements Not a hazardous substance or mixture.
Potential Health Effects	Primary Routes of Entry: Eye contact Ingestion Inhalation Skin contact Aggravated Medical Condition: None known.
Other hazards	None known.
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.
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Chemical Name	CAS-No.	Concentration
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	70 - 90 %
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	40 - 60 %
distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	20 - 30 %

SECTION 4. FIRST AID MEASURES

If inhaled	Move to fresh air. Artificial respiration and/or oxygen may be necessary. Seek medical advice.
In case of skin contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Wash clothing before reuse. Seek medical advice.
In case of eye contact	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
If swallowed	Rinse mouth with water. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Seek medical advice.
Most important symptoms and effects, both acute and delayed	First aider needs to protect himself.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	No information available.
Specific hazards during fire-fighting	Cool closed containers exposed to fire with water spray.
Hazardous combustion products	Carbon oxides (CO, CO ₂), nitrogen oxides (NO _x), sulphur oxides (SO _x), smoke and irritating vapors as products of incomplete combustion.
Further information	Prevent fire extinguishing water from contaminating surface water or the ground water system.

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SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment.
Ensure adequate ventilation. Evacuate personnel to safe areas. Material can create slippery conditions.

Environmental precautions

Do not allow uncontrolled discharge of product into the environment.

Methods and materials for containment and cleaning up

Prevent further leakage or spillage if safe to do so.
Remove all sources of ignition.
Soak up with inert absorbent material. Non-sparking tools should be used. Ensure adequate ventilation.
Contact the proper local authorities.

SECTION 7. HANDLING AND STORAGE**Advice on safe handling**

For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Use only with adequate ventilation.
In case of insufficient ventilation, wear suitable respiratory equipment.
Avoid contact with skin, eyes and clothing. Do not ingest.
Keep away from heat and sources of ignition. Keep container closed when not in use.

Conditions for safe storage

Store in original container.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.
To maintain product quality, do not store in heat or direct sunlight.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION**COMPONENTS WITH WORKPLACE CONTROL PARAMETERS**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	TWA (Mist)	5 mg/m ³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV (Mist)	5 mg/m ³	CA QC OEL
		STEV (Mist)	10 mg/m ³	CA QC OEL
		TWA (Inhalable fraction)	5 mg/m ³	ACGIH
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	TWA (Mist)	5 mg/m ³	CA AB OEL
		STEL (Mist)	10 mg/m ³	CA AB OEL
		TWAEV (Mist)	5 mg/m ³	CA QC OEL
		STEV (Mist)	10 mg/m ³	CA QC OEL
		TWA (Inhalable fraction)	5 mg/m ³	ACGIH

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Engineering measures

No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

PERSONAL PROTECTIVE EQUIPMENT**Respiratory protection**

Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Filter type

organic vapor filter

Hand protection material

neoprene, nitrile, polyvinyl alcohol (PVA), Viton(R).

Remarks

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection

Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

Protective measures

Wash contaminated clothing before re-use.

Hygiene measures

Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash face, hands and any exposed skin thoroughly after handling.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

viscous liquid

Color

Pale, straw-yellow.

Odor

Mild petroleum oil like.

Odor Threshold

No data available

pH

No data available

Pour point

-45 °C (-49 °F)

Boiling point/boiling range

No data available

Flash point

206 °C (403 °F)
Method: Cleveland open cup

Fire Point

No data available

Auto-Ignition Temperature

No data available

Evaporation rate

No data available

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Flammability	Low fire hazard. This material must be heated before ignition will occur.
Upper explosion limit	No data available
Lower explosion limit	No data available
Vapor pressure	No data available
Relative vapor density	No data available
Density	0.8591 kg/l (15 °C / 59 °F)
SOLUBILITY(IES)	
Water solubility	insoluble
Partition coefficient: n-octanol/water	No data available
VISCOSITY	
Viscosity, kinematic	31.5 cSt (40 °C / 104 °F) 5.48 cSt (100 °C / 212 °F)
Explosive properties	Do not pressurize, cut, weld, braze, solder, drill, grind or ex- pose containers to heat or sources of ignition.

SECTION 10. STABILITY AND REACTIVITY

Possibility of hazardous reactions	Hazardous polymerisation does not occur. Stable under normal conditions
Conditions to avoid	Can react with strong oxidizing agents, peroxides, alkaline products and strong acids. Contact with nitric and sulfuric acids will form nitroresols that can decompose violently.
Incompatible materials	Reactive with oxidizing agents and reducing agents.
Hazardous decomposition products	May release COx, H2S, metal oxides, methacrylate monomers, smoke and irritating vapors when heated to decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	Eye contact Ingestion Inhalation Skin contact
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ACUTE TOXICITY

Acute oral toxicity	Remarks: No data available
Acute inhalation toxicity	Remarks: No data available
Acute dermal toxicity	Assessment: The substance or mixture has no acute dermal toxicity Remarks: No data available

COMPONENTS

lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based:	<p>Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg</p> <p>Acute inhalation toxicity: LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist</p> <p>Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg</p>
lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based:	<p>Acute oral toxicity: LD50 (Rat): > 5,000 mg/kg</p> <p>Acute inhalation toxicity: LC50 (Rat): > 5.2 mg/l Exposure time: 4 h Test atmosphere: dust/mist</p> <p>Acute dermal toxicity: LD50 (Rabbit): > 2,000 mg/kg</p>
Skin corrosion/irritation	Product: Remarks: No data available
Serious eye damage/eye irritation	Product: Remarks: No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT - single exposure	No data available
STOT - repeated exposure	No data available

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SECTION 12. ECOLOGICAL INFORMATION**ECOTOXICITY**

Toxicity to fish	Remarks: No data available
Toxicity to daphnia and other aquatic invertebrates	Remarks: No data available
Toxicity to algae	Remarks: No data available
Toxicity to bacteria	Remarks: No data available

PERSISTENCE AND DEGRADABILITY

Product: Biodegradability	Remarks: No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

SECTION 13. DISPOSAL CONSIDERATIONS**DISPOSAL METHODS**

Waste from residues	The product should not be allowed to enter drains, water courses or the soil. Offer surplus and non-recyclable solutions to a licensed disposal company. Waste must be classified and labelled prior to recycling or disposal. Send to a licensed waste management company. Dispose of product residue in accordance with the instructions of the person responsible for waste disposal.
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SECTION 14. TRANSPORT INFORMATION**INTERNATIONAL REGULATIONS**

IATA-DGR	Not regulated as a dangerous good
IMDG-Code	Not regulated as a dangerous good
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable for product as supplied.

NATIONAL REGULATIONS

TDG	Not regulated as a dangerous good
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SECTION 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

The components of this product are reported in the following inventories:

DSL	On the inventory, or in compliance with the inventory
TSCA	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
IECSC	On the inventory, or in compliance with the inventory
EINECS	On the inventory, or in compliance with the inventory

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