



SAFETY DATA SHEET

Compass Premium AW Hydraulic Oil

1. Identification

Product Name Compass Premium AW 32, 46, 68
SDS # COMPAW32, COMPAW46, COMPAW68

Relevant identified uses of the substance or mixture and uses advised against

Product use For lubricating hydraulic systems. If this product is used in combination with other products, refer to the Safety Data Sheets for those products.

Synonyms: Petroleum oil; Lube oil; Petroleum hydrocarbon; Lubricant

Supplier Pugh Lubricants
701 McDowell Rd
PO Box 4006
Asheboro, NC 27204

Emergency Numbers Chemtrec
Domestic: 1-800-424-9300
International: 1-703-527-3887

2. Hazards Identification

Emergency Overview

Appearance Amber, red, green or blue

Physical state Liquid

Odor Petroleum odor

Signal word CAUTION!

Hazard statement May be harmful if swallowed. May irritate eyes and skin.

Potential Health Effects

Eyes May cause eye irritation.

Skin May cause skin irritation. Not likely to be absorbed through the skin in harmful amounts.

Inhalation This product is not likely to present an inhalation hazard at normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, high concentrations of generated vapor or mist may irritate the respiratory tract (nose, throat, and lungs).

Ingestion May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death.

Aggravated Medical Condition Individuals with pre-existing respiratory tract (nose, throat, and lungs), eye, and/or skin disorders may have increased susceptibility to the effects of exposure.

See number 11 toxicological information and number 12 ecological information

3. Composition/information on ingredients

CAS #	Component	Percent
64742-58-1	Lubricating oils, petroleum, hydro treated spent	14-99
64741-88-4	Petroleum distillates, solvent-refined heavy paraffinic	0-85**
64742-57-0	Residual oils (petroleum), hydro treated	0-85**
64742-62-7	Residual oils (petroleum), solvent dewaxed	0-100**
64742-01-4	Residual oils (petroleum), solvent refined	0-85**
*	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	0.1-2
*	Mineral oil	0.1-1

*Supplier advises that this is a trade secret.

**Even though the concentration range does not fall under the ranges prescribed by WHMIS, this is the actual range which varies with each batch of the product.

4. First Aid Measures

Eye contact	Flush eyes with large amounts of lukewarm water for 15 minutes. Get medical attention if eye irritation develops or persists.
Skin contact	Remove contaminated clothing. For skin contact, wash immediately with soap and water. Get medical attention if skin disorder develops.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Oxygen should only be administered by qualified personnel. Someone should stay with victim. Get medical attention if breathing difficulty persists.
Ingestion	Do NOT induce vomiting. Get medical attention immediately.
Notes to Physician	Treat symptomatically and supportively. Treatment may vary with condition of victim and specifics of incident.

5. Fire-Fighting Measures

Hazardous combustion products	Decomposition and combustion materials may be toxic. Burning may produce aldehydes, hydrogen sulfide, alkyl mercaptans, sulfides, nitrogen oxides, phosphorus oxides, sulfur oxides, carbon monoxide, and unidentified organic compounds.
Conditions of Flammability	Sparks or flame. Product may burn, but does not ignite readily.
Extinguishing media	Carbon dioxide, regular foam, dry chemical, water spray, or water fog. Water or foam may cause frothing.
Fire-fighting procedures	A positive-pressure, self-contained breathing apparatus (SCBA) and full-body protective equipment are required for fire emergencies. Keep storage containers cool with water spray.
Fire/explosion hazards	Heated containers may rupture. "Empty" containers may retain residue and can be dangerous. Product is not sensitive to mechanical impact or static discharge.

6. Accidental Release Measures

Personal precautions	Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Surfaces may become slippery after spillage. Wear appropriate protective equipment and clothing during clean-up.
Environmental precautions	Do not allow the spilled product to enter public drainage systems or open water courses.

Methods for containment and cleaning up

Containment method	Eliminate all sources of ignition or flammables that may come into contact with a spill of this material. Stop the flow of material, if this is without risk.
Clean-up method	Absorb with non-flammable suitable absorbent such as sand or earth. Scoop up used absorbent with a clean, spark-proof tool into a sealable container for disposal.

7. Handling and Storage

Handling procedures	Keep away from sparks or flame. Where flammable mixtures may be present, equipment safe for such locations should be used. Use clean tools and explosion-proof equipment. When transferring large volumes of product, metal containers, including trucks and tank cars, should be grounded and bonded. This product has a low vapor pressure and is not expected to present an inhalation hazard under normal temperatures and pressures. However, when aerosolizing, misting, or heating this product, do not breathe vapor or mist. Use in a well ventilated area. Avoid contact with eyes, skin, clothing, and shoes.
Storage procedures	Keep container tightly closed when not in use and during transport. Store containers in a cool, dry place. Do not pressurize, cut, weld, braze, solder, drill, or grind containers. Keep containers away from flame, sparks, static electricity, or other sources of ignition. Empty product containers may retain product residue and can be dangerous.

8. Exposure Controls/Personal Protection

Exposure guidelines	None available.
Engineering controls	Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limits. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below applicable exposure limits.

Individual Protection Measures

Hygiene measures	Use good hygiene. Wash thoroughly with soap and water after handling the product and before eating, drinking or using tobacco products. Launder contaminated clothing before reuse. Discard leather articles, such as shoes, saturated with this product.
Eye/face protection	Wear safety glasses.
Skin protection	Use impervious gloves for prolonged contact. Wear oil-impervious garments if contact is unavoidable. When product is heated and skin contact is likely, wear heat-resistant gloves, boots, and other protective clothing. To avoid prolonged or repeated contact where spills and splashes are likely, wear appropriate chemical-resistant face shield, boots, apron, coveralls, long sleeve shirts, or other protective clothing.
Respiratory protection	No respiratory protection is normally required. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134

9. Physical and Chemical Properties

Appearance:	Amber	Odor:	Slight Hydrocarbon
Physical State:	Liquid	pH:	Not Applicable
Boiling Point:	Not available	Melting Point:	Not available
Solubility (H₂O):	Insoluble	Specific Gravity:	0.85 (water=1) (approx.)
Vapor Density:	Not available	Vapor Pressure:	Not available
Flash Point:	204°C / 400°F	Viscosity:	Not available
Odor Threshold:	Not available	Evaporation Rate:	Not available

10. Stability and Reactivity

Stability and Reactivity	Stable under normal temperatures and pressures.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur. Not reactive with water.
Conditions to avoid	Avoid heat, sparks or flame when not in use.
Incompatible materials	Avoid acids, oxidizing agents and reducing agents.
Hazardous Decomposition	None under normal temperatures and pressures. See also SECTION 5: Hazardous Combustion Products .
Hazardous Polymerization	Polymerization is not known to occur under normal temperature and pressures.

11. Toxicological Information

Component Analysis	LD50/LC50 Lubricating oils, petroleum, hydro-treated spent (64742-58-1) Oral LD50 Rat >2000 mg/kg Dermal LD50 Rat >2000 mg/kg Dermal LD50 Rabbit >4480 mg/kg Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4) Inhalation LC50 Rat 2.18 mg/L 4 h Oral LD50 Rat >5000 mg/kg Dermal LD50 Rabbit >2000 mg/kg Residual oils (petroleum), solvent refined (64742-01-4) Inhalation LC50 Rat 2.18 mg/L 4 h Oral LD50 Rat >5000 mg/kg Dermal LD50 Rabbit >2000 mg/kg Residual oils (petroleum), solvent dewaxed (64742-62-7) Inhalation LC50 Rat 2.18 mg/L 4 h Oral LD50 Rat >5000 mg/kg Dermal LD50 Rabbit >2000 mg/kg Mineral Oil (Proprietary) Oral LD50 Mouse 22 g/kg (related to Oil mist, mineral)
Acute toxicity data	May irritate the eyes and skin. May be harmful if swallowed. May cause throat irritation, nausea, vomiting, and diarrhea. Breathing product into the lungs during ingestion or vomiting may cause lung injury and possible death. Use of good hygiene practices will reduce the likelihood of potential health effects.
<u>Potential chronic health effects</u>	
Carcinogenicity	Mineral Oil (Proprietary) ACGIH: A4 - Not Classifiable as a Human Carcinogen (highly and severely refined); A2 - Suspected Human Carcinogen (poorly and mildly refined, related to Oil mist, mineral)
Sensitization	Based on best current information, there is no known human sensitization associated with this product.

Mutagenicity	Experimental evidence suggests that this product does not cause mutagenesis.
Reproductive Toxicity	Based on best current information, there is no known reproductive toxicity associated with this product.
Teratogenicity	Based on best current information, there is no known teratogenicity associated with this product.

12. Ecological Information

Ecotoxicity No information is available on ecotoxicity of this product.

Component Analysis Aquatic Toxicity

Lubricating oils, petroleum, hydro-treated spent (64742-58-1)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Brachydanio rerio	79.6 mg/L [semi-static]
96 Hr LC50 Pimephales promelas	3.2 mg/L [semi-static]

Petroleum distillates, solvent-refined heavy paraffinic (64741-88-4)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L

Residual oils (petroleum), solvent refined (64742-01-4)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L

Residual oils (petroleum), solvent dewaxed (64742-62-7)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Oncorhynchus mykiss	>5000 mg/L

Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3)

Duration/Test/Species	Concentration/Conditions
96 Hr LC50 Pimephales promelas	1.0-5.0 mg/L [static]
96 Hr LC50 Pimephales promelas	10.0-35.0 mg/L [semi-static]

Persistence/Degradability May cause long-term adverse effects in the aquatic environment.

Bioaccumulation/Accumulation No data available for this product.

Mobility in Environmental Media No information available for this product.

Other Adverse Effects No additional information available.

13. Disposal Considerations

Waste information Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Do not allow this material to drain into sewers/water supplies. Material should be recycled if possible. If discarded, this product is not expected to be a characteristic or listed hazardous waste.

14. Transportation Information

Emergency Response Guide Number	Not applicable.
DOT	Not regulated as a hazardous material.
TDG	Not regulated as a hazardous material.
IATA Information	No Classification assigned.
IMDG Information	No Classification assigned.

15. Regulatory Information

US Federal Regulations	All the components of these products are listed on, or are automatically included as "naturally occurring chemical substances" on, or are exempted from the requirement to be listed on, the TSCA Inventory.
Volatile Organic Compounds	Not available.
SARA Sections 311/312	This product poses the following health hazard(s) as defined in 40 CFR Part 370 and is subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA): Immediate (Acute) Health Hazard Delayed (Chronic) Health Hazard
SARA Sections 302/304	This product does not contain any "extremely hazardous substances" listed pursuant to Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) Section 302 or Section 304 as identified in 40 CFR Part 355, Appendix A and B.
SARA Section 313	This product does contain a "toxic" chemical subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) and 40 CFR Part 372. Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (68649-42-3) >1.0 % de minimis concentration (Chemical Category N982, related to Zinc compounds)
CERCLA	This product does not contain any "hazardous substance" listed under the Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA) in 40 CFR Part 302, Table 302.4.
TSCA	All the components of this product are listed on, or are exempted from the requirement to be listed on, the TSCA Inventory.

CAS #	Component	TSCA
64742-58-1	Lubricating oils, petroleum, hydro treated spent	Yes
64742-57-0	Residual oils (petroleum), hydrotreated	Yes
64741-88-4	Petroleum distillates, solvent-refined heavy paraffinic	Yes
64742-01-4	Residual oils (petroleum), solvent refined	Yes
64742-62-7	Residual oils (petroleum), solvent dewaxed	Yes
68649-42-3	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	Yes

State Regulations

US State Regulations

The following components appear on one or more of the following state hazardous substances lists:

Component	CAS	MA	MN	NJ	PA	CA
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (*related to: Zinc compounds)	68649-42-3	Yes ¹	No	No	Yes ¹	Yes ¹
Mineral Oil (*related to: Oil mist, mineral)	Proprietary	Yes ¹				

No component(s) are listed under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

16. Other Information

Label requirements

CAUTION!

MAY CAUSE RESPIRATORY TRACT, EYE AND SKIN IRRITATION

HMIS® Rating

Health	1
Flammability	1
Physical Hazard	0
Personal Protection	X

NFPA Ratings

Health Hazard	1
Fire Hazard	1
Reactivity	0

History

Supersedes Issue Date 12/06/2012

This information is, to the best of Pugh Oil's knowledge and belief, accurate and reliable. However, no representation, warranty, or guarantee is made to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of such information for his own particular use.