

SAFETY DATA SHEET

SECTION 1: Identification

Product identifier: AW Hydraulic ISO 22,32,46,68,100,150, 220, 320

Other means of identification: BO2046, BO510, BO400, BO730, BO1010, BO1013, BO1036, BO2238

Recommended use: General lubricant

Recommended restrictions: None known

Manufacturer/Importer/Supplier/Distributor information

Company name: ZIEN Inc.

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SECTION 2: Hazard(s) identification

Physical hazards

Not classified as a physical hazard

Health hazards

Aspiration Hazard

Category 1

H304: May be fatal if swallowed or enters airways

Environmental hazards

Not Classified

OSHA hazard(s) Label elements



Hazard symbol:

Signal word:

DANGER!

Hazard statement(s):

H304: May be fatal if swallowed or enters airways

Precautionary statement

- Prevention:** No precautionary phrases.
- Response:** P301 +P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P331: Do NOT induce vomiting.
- Storage:** P405: Store locked up.
- Disposal:** P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

**Hazard(s) not otherwise
Classified (HNOC)**

None Known

SECTION 3: Composition/information on ingredients

Substance/Mixtures

| Chemical name | Concentration | Additional Information |
|-----------------------------------------------------------|---------------|-------------------------------------------------|
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | 0-95 % | CAS-No: 64742-65-0 Aspiration Hazard, Cat. 1 |
| Distillates (petroleum), hydro treated heavy paraffinic | 0-60 % | CAS-No: 64742-54-7 |
| Paraffin oils (petroleum), catalytic dewaxed light | 0-60 % | CAS-No: 64742-71-8 |
| Additive | <1 % | CAS-No: Proprietary |

SECTION 4: First-aid Measures

- Inhalation:** Move to fresh air. Treat symptomatically. Get medical attention if symptoms persist.
- Skin contact:** Wash with soap and water. Get medical attention if symptoms occur.
- Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
- Ingestion:** Do not induce vomiting. Seek medical advice immediately.

Most important symptoms/effects, acute and delayed: If material enters lungs, signs and symptoms may include coughing, choking, wheezing, difficulty in breathing, chest congestion, shortness of breath, and/or fever. The onset of respiratory symptoms may be delayed for several hours after exposure. Ingestion may result in nausea, vomiting and/or diarrhea.

Indication of immediate medical attention and special treatment needed: None known

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Water spray, Carbon dioxide, Dry chemical, Alcohol foam

Unsuitable extinguishing media: Do not use water jet.

Specific hazards arising from the chemical: Hazardous combustion products may include carbon monoxide and other toxic gases/vapors.

Special protective equipment and precautions for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Fight fire from a protected location. Water may be ineffective in fighting the fire. Use water spray to keep fire-exposed container cool.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear appropriate personal protective equipment (see Section 8). Do not breathe fumes or vapor.

Methods and materials for containment and cleaning up: Eliminate sources of ignition. Stop source of leak if safe. Prevent entry into waterways and sewer systems. Absorb in vermiculite, dry sand or earth. Sweep up and place in a clearly labeled container for chemical waste.

SECTION 7: Handling and Storage

Precautions for safe handling: Avoid breathing mist or vapors. Avoid contact with eyes. Use only with adequate ventilation. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibles: Keep container tightly closed and in a well-ventilated place. Store away from heat and light.

SECTION 8: Exposure controls/personal protection

Control Parameters

Occupational exposure limits

US.OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Material | Type | Value | Notation |
|-------------------|------|---------------------|----------|
| Oil mist, mineral | PEL | 5 mg/m ³ | |

U.S. ACGIH Threshold Limit Values

| Material | Type | Value | Notation |
|-------------------|------|---------------------|----------------------|
| Oil mist, mineral | TWA | 5 mg/m ³ | (inhalable fraction) |

NIOSH Guidelines

| Material | Type | Value | Notation |
|-------------------|----------------|-----------------------|----------|
| Oil mist, mineral | REL (10 hr) | 5 mg/m ³ | |
| Oil mist, mineral | STEL | 10 mg/ m ³ | |

Appropriate engineering Controls: Maintain air concentrations below occupational exposure standards using engineering controls if necessary. Local exhaust ventilation is recommended. Eye wash station and showers for emergency use.

Individual protection measures, such as personal protective equipment

Eye/face protection: Do not get material in eyes. Wear protective eye goggles

Skin protection Avoid skin contact. Wear protective clothing.

Hand protection: Avoid contact. Wear suitable protective gloves.

Other: No data available

Respiratory protection: Select suitable respiratory protection equipment for the specific conditions of use. Maintain airborne concentrations below occupational exposure standards

Thermal hazards: No data available

General hygiene considerations: Observe good industrial hygiene practices.

SECTION 9: Physical and chemical properties

Appearance

Physical state: Liquid

Form: Liquid

Color: Amber

Odor: Mild

Odor threshold: Not available

pH: Not available

Melting point/freezing point: Not available

Boiling point: Not available

Flash point: >380 °F

Evaporation rate: Not available

Flammability (solid, gas): Not available

Upper/lower flammability or explosive limits

Flammability limit – lower (%): Not available

Flammability limit – upper(%): Not available

Explosive limit – lower (%): Not available

Explosive limit – upper (%): Not available

Vapor pressure: Not available

Vapor density: Not available

Specific gravity: 0.87 -0.89

Relative density temperature: Not available

Solubility in water: Insoluble

| | |
|---------------------------------------------------|---------------|
| Partial coefficient (n-octanol/water): | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity: | Not available |
| Viscosity temperature: | Not available |
| Other information | |
| Bulk density: | Not available |
| Flash point class: | Not available |
| VOC (Weight %): | Not available |

SECTION 10: Stability and Reactivity

| | |
|--------------------------------------------|---------------------------------|
| Reactivity: | None known |
| Chemical stability: | Stable |
| Possibility of hazardous reactions: | None known |
| Conditions to avoid: | Heat, sparks, flames. |
| Incompatible materials: | Strong oxidizing agents. |
| Hazardous decomposition Products: | Carbon monoxide, Carbon dioxide |

SECTION 11: Toxicological information

Information on likely routes of exposure

| | |
|-----------------------------------------------------------------------------------------------|------------|
| Inhalation: | None known |
| Ingestion: | None known |
| Skin: | None known |
| Eye: | None known |
| Symptoms related to the physical, chemical, and toxicological characteristics: | None known |

Information on toxicological effects

| | |
|------------------------------------------|--------------------------------------------|
| Acute Oral Toxicity (rat) | |
| Product: | >5000 mg/kg (estimate based on components) |
| Acute Dermal Toxicity (rabbit) | |
| Product: | No data available |
| Acute Inhalation Toxicity | |
| Product: | No data available |
| Skin corrosion/irritation | Not expected to cause irritation |
| Serious eye damage/eye irritation | Not expected to cause irritation |
| Respiratory sensitization | No data available |
| Skin sensitization | No data available |
| Germ cell mutagenicity | No data available |
| Carcinogenicity | No data available |
| Reproductive toxicity | No data available |

| | |
|--------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| Specific target organ toxicity- Single exposure | No data available |
| Specific target organ toxicity- Repeated exposure | No data available |
| Aspiration hazard | Aspiration into the lungs when swallowed or vomited may cause pneumonitis which can be fatal |
| Distillates (petroleum), solvent-dewaxed heavy paraffinic | |
| Further information | No data available |

SECTION 12: Ecological information

Ecotoxicity

| Product | Species | Test Results |
|--------------------------------------|----------------------------------------------------------------------------------------------------|---------------------|
| Persistence and degradability | No data available | |
| Bioaccumulative potential | No data available | |
| Mobility in soil | No data available | |
| Mobility in general | No data available | |
| Other adverse effects | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. | |

SECTION 13: Disposal considerations

| | |
|------------------------------|------------------------------------------------------------------------------------|
| Disposal instructions | Dispose in accordance with all applicable Federal, State and local regulations. |
|------------------------------|------------------------------------------------------------------------------------|

SECTION 14: Transport Information

| | |
|--------------|---------------|
| DOT: | Not regulated |
| IATA: | Not regulated |
| IMDG: | Not regulated |

SECTION 15: Regulatory Information

Inventory Status

This material is listed on the following inventories: TSCA

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4):
Zinc Compounds (<1 %)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): None

SARA Title III

Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A): None

Section 311/312 (40 CFR 370):

Immediate Hazard: Yes

Delayed Hazard: No

Fire Hazard: No

Pressure Hazard: No

Reactivity Hazard: No

Section 313 Toxic Release Inventory (40 CFR 372):

None

State Regulations

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):

Impurities: <1 ppm cadmium, <1 ppm lead, <2 ppm arsenic

Massachusetts Right-To-Know List:

Oil Mist, mineral ; Petroleum paraffin oils, catalytic dewaxed light

SECTION 16: Other Information

Revision Date: February 28, 2014

To the best of our knowledge, the information contained herein is accurate. **However, neither Zien Inc. nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.** Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.